Project to Collect Medical Near-Miss/ Adverse Event Information 2006 Annual Report

July 18, 2007



Center for Medical Adverse Event Prevention Japan Council for Quality Healthcare

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Foreword

Eitaka Tsuboi President Japan Council for Quality Healthcare

Japan Council for Quality Healthcare (JCQHC) has been conducting various activities, such as the evaluation of medical services provided at hospitals, in order to maintain public confidence in healthcare services and improve the quality of the services. Public awareness of the promotion of medical safety and medical adverse event prevention has recently been rising.

The JCQHC Center for Medical Adverse Event Prevention has been conducting our Project to Collect Medical Near-Miss/Adverse Event Information to prevent medical adverse events and to promote medical safety. The collected information and the tabulation/analysis of the data are published and distributed to medical professionals, members of the public and administrative organizations in the form of periodic reports, annual reports and monthly fax newsletters. JCQHC would like to thank all cooperating medical institutions and relevant parties.

The 2006 annual report was prepared based on past reports. Numerous responses including inquiries about and publicity concerning a number of medical adverse events and their details appeared in past reports, indicating elevated social awareness of the promotion of medical safety and the prevention of medical adverse events. JCQHC will increase its efforts to enhance the content of future reports and establish an environment for convenient case reporting in order to provide useful information to the parties concerned through publication of the current report and periodic reports. Your suggestions for our future activities will be appreciated.

JCQHC is determined to maintain public confidence in healthcare services and improve the quality of medical treatment and its safety through various projects, including the evaluation of medical services provided at hospitals. JCQHC appreciates your understanding and cooperation.

Issuing the 2006 Annual Report

Kikuo Nomoto Director Center for Medical Adverse Event Prevention Japan Council for Quality Healthcare

The Center for Medical Adverse Event Prevention has published nine periodic reports on medical adverse events reported by medical institutions as part of the Project to Collect Medical Near-Miss/Adverse Event Information that started in October 2004. As a project developed based on legal grounds, it is considered quite important for the promotion of medical safety in Japan.

The objective of collecting and analyzing medical near-miss/adverse event information is to create a safety-oriented culture in the rapidly advancing medical community. It is important to collect a wide range of relevant information and use it to promote medical safety. In terms of creating a safety-oriented culture, it is not necessarily correct to view an increase in the number of reports on medical near-misses/adverse events as an actual increase in medical near-miss incidents and adverse events, or to think that there is a decline in the safety at medical institutions.

The Japan Council for Quality Healthcare (JCQHC) deeply appreciates the cooperation of the medical institutions that have been participating in this project and reporting medical near-miss incidents/adverse events, as reports from participating institutions are the basis of this project.

JCQHC has been ensuring information feedback and holding workshops in which many medical institutions could participate. An effort has been made to establish an environment for easy case reporting, since some institutions are required to report medical adverse events by law. In addition to ensuring the confidentiality of personal information, reports have been prepared to include unidentifiable cases that could provide useful information to medical institutions. As a third-party organization occupying a neutral position in the healthcare community, JCQHC has been providing information to outside parties by collecting and analyzing data with an unbiased point of view.

The 2006 Annual Report is based on previous reports. The current report basically consists of the contents of previous reports and includes tabulation based on previously published reporting dates. However, the tabulation of medical adverse events according to the date on which an event occurred or the occurrence of an event was reported and additional data concerning Voluntarily participating medical institutions that voluntarily participate in the project is also included. The cases used for the analysis of medical adverse events in past workshops and sample analyses are also provided in the current report as references for use in workshops held at medical institutions. Previous reports have raised public awareness, and numerous suggestions have been made by relevant parties as well as by the general public. Some medical institutions refer to our reports in their everyday operations. The current report will be useful as basic data for discussion on future medical safety in Japan.

JCQHC will increase its efforts to enhance the content of project reports for the prevention of medical adverse events and the promotion of medical safety in Japan. Your understanding and cooperation is appreciated.



I Outline of Project to Collect Medical Near-Miss/Adverse Event Information

1 Background of Medical Near-Miss/Adverse Event Information Collection

Background of Near-Miss Information Collection

The Ministry of Health, Labour and Welfare (MHLW) started "Network for Medical Safety Measures (Project to Collect Medical Near-Miss Information)" in October 2001 to analyze collected near-miss information and provide medical safety information and proposed preventive measures to parties concerned. In the initial project scheme, Organization for Pharmaceutical Safety and Research [OPSR; present Pharmaceuticals and Medical Devices Agency (PMDA)] collected medical near-miss information from participating medical institutions and reported to the MHLW of which study group was responsible for data tabulation and analysis. Medical near-miss information was collected in 10 reports in the previous scheme, and the MHLW published tabulated data to provide information to parties concerned based on the collected near-miss information (Note 1).

JCQHC took over Project to Collect Medical Near-Miss Information from Organization for Pharmaceutical Safety and Research [OPSR; present Pharmaceuticals and Medical Devices Agency (PMDA)] in 2004 and has conducted the 11th and subsequent reports since. Tabulated data and analyses are posted on JCQHC website^(Note 2).

Background on the Collecting of Medical Adverse Event Information

A Report on the "Comprehensive Promotion Measures for Medical Treatment Safety" (Note 3) was compiled and published in April 2002 by the Investigation Committee for Medical Treatment Safety Measures, a body established by the Ministry of Health, Labour and Welfare. Commenting on the governmental network service for medical treatment safety (a project to collect medical near-miss information) which began in October 2001, the report stated, "In analyzing such cases, there is a need to study the building of a system to collect even more accurate analytical and study results, as well as the results of analyzing and studying the improvement measures, from an even greater number of institutions." The report also touched on medical adverse event cases and, while introducing opinions that called for utilizing the collecting and analysis of such case examples and establishing a system for enforcing surveys and reports, it pointed out the need to conduct further studies that include legal issues associated with the reporting of medical malpractice.

The MHLW subsequently issued a ministerial ordinance to partially revise the enforcement regulations for Health Service Law ^(Note 4) on September 21, 2004 to require advanced treatment facilities to report medical adverse events. The JCQHC was registered at the MHLW on October 1, 2004 and became a Minister's recognized organization to analyze medical adverse event data in accordance with the said ordinance.

⁽Note 1) See "Medical Safety Measures" on the MHLW website (http://www.mhlw.go.jp/topics/bukyoku/isei/i-anzen/index.html).

⁽Note 2) See "Project to Collect, Analyze, and Provide Medical Near-Miss/Adverse Event Information" on the JCQHC website (http://jcqhc.or.jp/html/accident.htm#med-safe).

Issues such as "safety measures at medical institutions," "Improvement of Safety for Drugs and Medical Devices" "education and training to enhance medical safety," and "establishing an environment to promote medical safety" were included in the proposals for "Comprehensive Measures to Promote Medical Safety." See "Reports" in "Medical Safety Measures" page on the MHLW website

⁽http://www.mhlw.go.jp/topics/bukyoku/isei/i-anzen/houkoku/index.html).

⁽Note 4) MHLW Ordinance No. 133

Background of JCQHC Project

The Center for Medical Adverse Event Prevention was established within the JCQHC on July 1, 2004, and collection of near-miss/medical adverse event information in accordance with the law started on October 7, 2004. The Center comprehensively analyzes medical near-miss/adverse event information and, based on the policies of Management Committee^(Note 1) of the Center, prepares reports through summaries of Comprehensive Evaluation Panel^(Note 2) composed of specialists. The JCQHC has been providing reports prepared by the Center for Medical Adverse Event Prevention to participating medical institutions, relevant organizations, and administrative organizations as well as posting them on its website^(Note 3) for public review.

⁽Note 1) Consisting of experts in general medicine or medical safety measures and general advisors, Management Committee develops operational policies of Center for Medical Adverse Event Prevention and evaluates its activities.

⁽Note 2) Consisting of experts from each field, Comprehensive Evaluation Panel reviews and evaluates reports comprehensively as well as provides technological advice for analytical methods.

⁽Note 3) See "Project to Collect, Analyze, and Provide Medical Near-Miss/Adverse Event Information" on the JCQHC website (http://jcqhc.or.jp/html/accident.htm#med-safe).

2 Outline of Project to Collect Medical Near-Miss/Adverse Event Information and Organizational Structure

The project consists of Project to Collect, Analyze, and Provide Medical Adverse Event Information (Note 1) and Project to Collect, Analyze, and Provide Medical Near-Miss Information. (Note 2) The outline of each project is described below.

[1] Outline of Project to Collect, Analyze, and Provide Medical Adverse Event Information

(1) Objective

To collect, analyze, and provide medical adverse event information reported by medical institutions subject to reporting requirement, and for Voluntarily participating medical institutions to widely share information useful to develop medical safety measures with medical institutions in general and to provide information to the general public in order to further promote medical safety measures.

(2) Collection of medical adverse event information

1. Medical institutions

Information is collected at the following medical institutions subject to reporting requirement, as well as Voluntarily participating medical institutions.

i) Medical institutions subject to reporting requirement (Note 3)

- A. National Centers and National Sanatoriums for Hansen's disease
- B. Hospitals run by the National Hospital Organization
- C. Hospitals affiliated with universities governed by the School Education Law (not including their branch hospitals)
- D. Advanced treatment facilities

ii) Voluntarily participating medical institutions

Medical institutions other than those subject to reporting requirement may participate in the project by providing their organizational information required by the JCQHC to register.

⁽Note 1) See Attachment 1.

⁽Note 2) See Attachment 2.

The MHLW issued a ministerial ordinance to partially revise the enforcement regulations for Health Service Law (MHLW Ordinance No. 133, 2004) on September 21, 2004 to require National Centers, National Sanatoriums for Hansen's disease, hospitals run by National Hospital Organization, hospitals affiliated with universities (not including their branch hospitals) governed by the School Education LawLaw No. 22, 1947 (not including their branch hospitals), and advanced treatment facilities to report medical adverse events.

See Attachment 3 "Medical Institutions Subject to Reporting Requirement."

2. Medical adverse event information to be reported

The following medical adverse event information is subject to reporting.

- A. Apparent error in treatment or management that resulted in patient's death or mental or physical disability or required unexpected treatment, treatment to an unexpected extent, or other medical procedure
- B. Unapparent error in treatment or management that resulted in patient's death or mental or physical disability or required unexpected treatment, treatment to an unexpected extent, or other medical procedure (including events possibly associated with treatment or management provided; limited to unexpected events)
- C. Other than those described in A and B, information conducive to prevention of medical adverse events and their recurrence at medical institutions

3. Reporting method and due date

Medical adverse events should be reported on the exclusive reporting web page via Internet (SSL communication). As a general rule, a medical adverse event must be reported within 2 weeks of occurrence or within 2 weeks after identifying the occurrence.

4. Report form

Code choice reporting and descriptive reporting are available^(Note 1). In code choice reporting, applicable codes are checked or selected from pull-down lists. In descriptive reporting, descriptions are provided in the relevant fields.

In this report, an answer with no chosen code is referred as "no choice" and a field with no description entry as "no description."

(3) Analysis and publication of medical adverse event information

1. Tabulation

Performed by the JCQHC Center for Medical Adverse Event Prevention.

2. Publication of tabulation/analysis

Information is provided to relevant parties and the public in this report and through the JCQHC website^(Note 2).

⁽Note 1) See Material 4 "Medical Adverse Event Information Report Form."

⁽Note 2) See "Project to Collect, Analyze, and Provide Medical Near-Miss/Adverse Event Information" on the JCQHC website (http://jcqhc.or.jp/html/accident.htm#med-safe).

(4) Education and training in the collection of information on medical adverse events (Note 1)

Two workshops on the medical adverse event information reporting system of JCQHC and techniques for analyzing the causes and underlying factors and the development of preventive measures (root cause analyses, RCA) were held in 2006 to train the persons responsible for managing medical safety and relevant personnel at the Voluntarily participating medical institutions.

1. Outline of the workshops

i) Date

- a) First workshop: Saturday, March 18 and Sunday, March 19, 2006 (2 days)
- b) Second workshop: Friday, July 7 and Saturday, July 8, 2006 (2 days)

ii) Participants

- a) Heads of the medical safety management divisions at the Voluntarily participating medical institutions
- b) People responsible for the management of medical safety and those with similar responsibilities at the Voluntarily participating medical institutions

iii) Details

a) Lectures: Medical adverse event information reporting system of JCQHC

Techniques for medical adverse event analysis (RCA)

b) Exercise: Practical learning through simulated case analyses and reporting

2. Attendance

i) First workshop: 69 attendees (51 from the medical institutions subject to reporting

requirements, 18 from voluntarily participating medical institutions)

Including 30 full-time medical safety managers

ii) Second workshop: 57 attendees (44 from the medical institutions subject to reporting

requirements, 13 from voluntarily participating medical institutions)

Including 42 full-time medical safety managers

3. Details

The results of the questionnaire survey conducted in relation to the workshop attendees, the workshop materials, and an RCA example are shown in Attachment 5. DVDs of the first workshop were distributed to the Voluntarily participating medical institutions.

⁽Note 1) See Attachment 5 "Workshop on Medical Adverse Event Analysis and Reporting."

[2] Outline of Project to Collect, Analyze, and Provide Medical Near-Miss Information

(1) Objective

To collect, analyze, and provide medical near-miss information reported by Voluntarily participating medical institutions to widely share information useful to develop medical safety measures with medical institutions in general and to provide information to the general public in order to further promote medical safety measures

(2) Collection of medical near-miss information

Medical institutions

Information is collected at Voluntarily participating medical institutions.

2. Medical near-miss information to be reported

i) Medical near-miss information subject to reporting

- A. Potentially erroneous medical procedures identified before actually performed for patients
- B. Erroneous medical procedures performed but did not affect patients' conditions
- C. Erroneous medical procedures performed, and patients required minor procedure/treatment as the result

ii) Medical institutions where "general coded information" and/or "descriptive information" are collected

Medical near-miss information consists of "general coded information" and "descriptive information" that are collected separately at different medical institutions. The difference in the nature of information and medical institutions where such information is collected is described below.

A. General coded information

Information on any and all medical near-miss incidents (e.g. situation and details) occurred during a given collection period will be collected in the form of code table-based report^(Note 1). General coded information will be collected only at designated medical institutions^(Note 2).

B. Descriptive information

Regarding near-miss incidents of which information should be provided to others in general in light of promoting medical safety measures, causes and proposed corrective measures will be reported in the form of a "descriptive information" report.

"Descriptive information" described in a) and b) below will be collected from all Voluntarily participating medical institutions.

⁽Note 1) See Attachment 6 "Medical Near-Miss Information Report Form"

Designated medical institutions are medical institutions participating in Project to Collect Medical Near-Miss Information and agreed to cooperate to provide "general coded information." As of December 31, 2006, 247 institutions have been designated by avoiding biases in institution size and location.

See Attachment 7 "List of Point Medical Institutions for Project to Collect Medical Near-Miss Information"

- a) Medical near-miss cases covered by themes specified for individual collection periods^(Note 1) (Fig. I-1)
- b) Medical near-miss cases to be collected regularly regardless of periodic themes described in a)
 - Cases in which patients would have died or had serious conditions if actions in question had been done or occurrence of events in question had been unnoticed
 - Cases involving names or dosage forms of newly introduced drugs; cases involving drugs, medical devices/equipment such as errors in medical device operation^(Note 2)
 - Other cases that persons responsible for safety management at medical institutions examined thoroughly and determined that reporting of such cases would be conducive to improvement of medical safety

Fig. I-1 Themes for Descriptive Information Specified for Individual Collection Periods

| Collection period | Month of occurrence | Theme |
|-------------------|---------------------|--|
| | 2006 | O Cases involving patient misidentification or wrong-site surgeries/procedures |
| 19 th | January | O Cases related to placement and/or management of feeding tubes such as nasogastric tubes and percutaneous endoscopic gastrostomy (PEG) (not including self-removal of tube) |
| | to March | O Cases involving errors or unexpected events occurred during enema procedure |
| | | O Errors occurred in the process of dispensing process |
| | | O Cases related to tests |
| a o th | April | O Cases related to placement and/or management of feeding tubes such as nasogastric tubes and percutaneous endoscopic gastrostomy (PEG) (not including self-removal of tube) |
| 20 th | to June | O Cases involving errors or unexpected events occurred during enema procedure |
| | | O Cases involving errors occurred in the dispensing process |
| | | O Cases related to tests |
| | | O Cases involving errors occurred in the dispensing process |
| 21 st | July | O Cases related to tests |
| 21 | to September | O Cases related to insertion, placement, and management of drainage tube (not including accidental removal, self-removal of tube) |
| | | O Cases related to tests |
| | | O Cases related to insertion, placement, and management of drainage tubes (not |
| , | October | including accidental removal or self-removal of tube) |
| 22 nd | to December | O Cases related to the management of drugs brought by patients at the time of hospitalization |
| | | O Cases related to infusion pump and syringe pump (reasons for early discovery, ideas and approaches should be described along with the models) |

3. Reporting method

(1) Web reporting and (2) reporting in a designated format (CSV format) are available. The reporting method will be selected by individual Voluntarily participating medical institutions at the time of registration.

4. Report form

Code choice reporting and descriptive reporting are available^(Note 3). In code choice reporting, applicable codes are checked or selected from pull-down lists. In descriptive reporting, descriptions are provided in relevant fields.

⁽Note 1) Certain themes are specified for medical near-miss cases to be collected in individual collection period in order to analyze medical adverse events covered by specific themes.

⁽Note 2) Information such as drug (product) names and units is also collected in events associated with drugs, medical devices or other items

⁽Note 3) See Attachment 6 "Medical Near-Miss Information Report Form."

(3) Analysis and provision of medical near-miss information

Tabulation

Performed by the JCQHC Center for Medical Adverse Event Prevention.

2. Publication of tabulation/analysis

Provided to relevant parties and general public in reports and on the JCQHC website^{(Note 1) (Note 2)}.

[3] Organizational Structure for Project to Collect Medical Near-Miss/Adverse Event Information

The following committees and divisions have been established in Center for Medical Adverse Event Prevention to maintain neutrality and fairness of a third-party organization to collect medical adverse event information and to promote smooth organizational operation.

(1) Management Committee

Consisting of 22 experts in general medicine or medical safety measures and general advisors (as of December 31, 2006)^(Note 3), Management Committee develops operational policies of Center for Medical Adverse Event Prevention and evaluates its activities. Management Committee is established as a subcommittee specified in the JCQHC act of endowment.

(2) Expert divisions

A. Comprehensive Evaluation Panel

Consisting of 16 experts from various fields (as of December 31, 2006)^(Note 4), Comprehensive Evaluation Panel reviews and evaluates reports (proposals) prepared by "Expert Analysis Groups" described below as well as provides technological advice for analytical methods.

B. Expert Analysis Groups

Consisting of medical experts involved in medical safety and safety management experts, Expert Analysis Groups review and analyze reported cases, develop corrective measures, and prepare reports (proposals). Expert Analysis Groups also collect necessary information for analysis and development of corrective measures and conduct on-site visit. Currently about 20 members are participating in the activities of Expert Analysis Groups.

⁽Note 1) See "Project to Collect, Analyze, and Provide Medical Near-Miss Information" on the JCQHC website (http://jcqhc.or.jp/html/accident.htm#med-safe).

⁽Note 2) See Medical Near-Miss (Important Cases) Information Database Development/Publication Website (http://www2.hiyari-hatto.jp/hiyarihatto.index.jsp).

⁽Note 3) See Attachment 8 "Center for Medical Adverse Event Prevention Management Committee Members."

⁽Note 4) See Attachment 9 "Center for Medical Adverse Event Prevention Comprehensive Evaluation Panel Members."

(3) Medical Adverse Event Prevention Division

Planning and Coordination Department of Medical Adverse Event Prevention Division is in charge of Project to Collect Medical Near-Miss/Adverse Event Information.

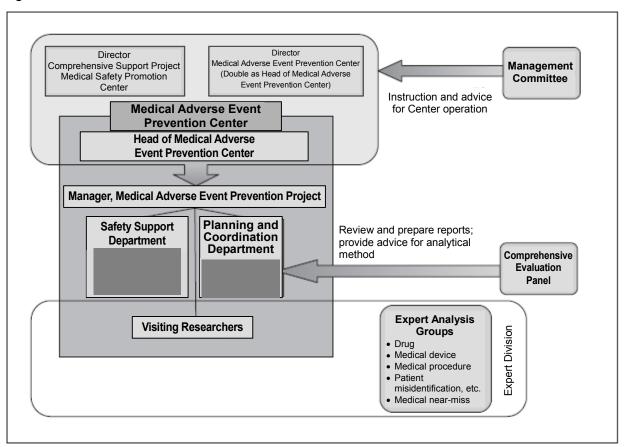
Consisting of staff with medical qualifications and visiting researchers, Planning and Coordination Department receives medical near-miss/adverse event reports and other useful information for medical safety as well as prepares and publishes project reports. The Department also visits medical institutions with members of Expert Analysis Groups to collect further information as necessary.

[4] Organization for Data Analysis and Information Provision

Initial reports are processed by staff, visiting researchers, and members of Expert Analysis Groups bound by the confidentiality clause of Center for Medical Adverse Event Prevention. Information contained in initial reports is anonymized by Center staff before being processed for analysis.

Expert Analysis Groups collect follow-up information, review published studies, and monitor activities of medical institutions making advanced efforts to prevent medical adverse events as necessary. Expert Analysis Groups prepare reports (proposals) containing results of comprehensive analysis of obtained information and submit them to Comprehensive Evaluation Panel. Comprehensive Evaluation Panel reviews submitted reports (proposals) from an expert point of view, prepares final reports, and publishes them as JCQHC reports.

Fig. I-2



II Current Reporting Status

1. Report on Collection, Analysis, and Provision of Medical Adverse Event Information

This annual report contains three types of tabulated information.

- A. Details of information provided by medical institutions subject to reporting requirement (by month of report)
 - Same tabulation as that published quarterly
- B. Details of information provided by medical institutions subject to reporting requirement (by month of occurrence)
- C. Details of information provided by Voluntarily participating medical institutions (by month of report)
 - Tabulation of information provided by all medical institutions participated in the project (medical institutions subject to reporting requirement and participating medical institutions)

[1] Registered Medical Institutions

Medical adverse event information is provided by medical institutions subject to reporting requirement and voluntarily participating medical institutions whose participations are voluntary.

(1) Number of medical institutions subject to reporting requirement and voluntarily participating medical institutions

The number of medical institutions participating in Project to Collect, Analyze, and Provide Medical Adverse Event Information as of December 31, 2006 is shown in Fig. II-1-1.

Fig. II-1-1 Number of Medical Institutions Subject to Reporting Requirement and Voluntarily participating medical institutions

| | Mother body | Medical institutions subject to reporting requirement | Voluntarily participating medical institutions (Note 1) |
|-------------------------------------|---|---|---|
| | National University Corporation, etc | 46 | - |
| | National Hospital Organization | 146 | - |
| Government | Ministry of Health, Labour and Welfare (National Centers) | 8 | - |
| | Ministry of Health, Labour and Welfare (Sanatoriums for Hansen's Disease) | 13 | - |
| | Japan Labour Health and Welfare Organization | - | 1 |
| | Prefecture | 4 | 7 |
| | City/village | - | 27 |
| Municipality | Japan Association of Municipal and Prefectural Colleges and Universities | 6 | - |
| | Local independent administrative institutions | 1 | - |
| | Japan Red Cross | - | 54 |
| | Saiseikai Imperial Gift Foundation | - | 4 |
| Mother body of | National Welfare Federation of Agricultural Cooperatives | - | 3 |
| public medical | National Health Insurance Association Federation | | 1 |
| institution other than municipality | All Japan Federation of Social Insurance Associations | - | 36 |
| | Employees' Pension Welfare Corporation | - | 1 |
| | Seamen's Insurance Society | - | 1 |
| | Mutual Aid Associations and their associations | - | 7 |
| | School juridical organization | 49 | 6 |
| | Healthcare corporation | - | 101 |
| Corporation | Charitable organization | - | 16 |
| | Company | - | 7 |
| | Other corporation | - | 5 |
| | Individual practitioner | - | 23 |
| | Total | 273 | 300 |

(Note 1) Voluntarily participating medical institutions are those participating in the project other than medical institutions subject to reporting requirement.

(2) Changes in number of registration of voluntarily participating medical institutions

Changes in the number of Voluntarily participating medical institutions between January 1 and December 31, 2006 are shown below.

Fig. II-1-2 Number of Registrations of Voluntarily participating medical institutions

| | | 2006 | | | | | | | | | | |
|--|---------|----------|-------|-------|-----|------|------|--------|-----------|--------|---------|---------|
| | January | February | Marcl | April | May | June | July | August | September | Octobe | lovembe | Decembe |
| Number of Voluntarily participating medica institutions | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 0 | 1 | 2 |
| Number of rejected registrations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Accumulated total | 285 | 287 | 288 | 290 | 291 | 292 | 295 | 297 | 298 | 297 | 298 | 300 |

[2] Changes in Number of Reports

(1) Number of monthly reports

The number of monthly reports made by medical institutions subject to reporting requirement and Voluntarily participating medical institutions between January 1 and December 31, 2006 is shown below.

Fig. II-1-3 Number of Monthly Reports Made by Medical Institutions Subject to Reporting Requirement and Voluntarily participating medical institutions

| | 2006 | | | | | | | Total | | | | | |
|--|--------|----------|-------|-------|-----|------|------|-------|-----------|---------|---------|-----------------|-------|
| | Januar | February | Marcl | April | May | June | July | Augus | September | Octobei | Novembe |) ecembe | Total |
| Number of reports made by medical institutions subject to reporting requirement | 99 | 110 | 121 | 84 | 94 | 126 | 111 | 154 | 110 | 105 | 89 | 93 | 1,296 |
| Number of reports made by voluntarily participating medical institutions | 11 | 5 | 5 | 5 | 11 | 19 | 15 | 19 | 10 | 22 | 17 | 16 | 155 |
| Number of medical institutions subject to reporting requirement | 272 | 272 | 272 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 273 | 1 |
| Number of Voluntarily participating medical institutions | 285 | 287 | 288 | 290 | 291 | 292 | 295 | 297 | 298 | 297 | 298 | 300 | - |

(2) Medical adverse event reporting status

A. Reporting status of medical institutions subject to reporting requirement

Among medical institutions subject to reporting requirement as of December 31, 2006, the number of reporting medical institutions subject to reporting requirement and the number of reports made between January 1 and December 31, 2006 are shown in Fig. II-1-4 and those by bed size in Fig. II-1-5. The tabulated number of reports made by medical institutions during the same period is shown Fig. II-1-6. Since there have been several changes in medical institutions sinceafter the start of the project including newly qualified reporting requirement or abolishment of medical institutions, medical institutions subject to reporting requirement have inconsistent numbers with other figures. As of December 31, 2006, the number of medical institutions subject to reporting requirement is 273 institutions, and the total number of beds is 147,836.

Fig. II-1-4 Number of Reporting Medical Institutions Subject to Reporting Requirement and Reports Made

| | Mother body | Number of registrations (As of December 31, 2006) | Number of reporting medical institutions January to December, 2006 | Number of reports January to December, 2006 | |
|---|--|--|---|--|--|
| | National University Corporation | 46 | 45 | 339 | |
| a | National Hospital Organization | 146 | 100 | 458 | |
| Government | National Centers | 8 | 7 | 69 | |
| | Sanatoriums for Hansen's Disease | 13 | 4 | 11 | |
| | Prefecture | | | | |
| | City/village | | | | |
| Municipality | Japan Association of Municipal and Prefectural Colleges and Universities | 11 | 7 | 27 | |
| | Local independent administrative institutions | | | | |
| Corporation | School juridical organization | 49 | 32 | 392 | |
| (Re-posted) Advanced treatment hospital | | 81 | 77 | 755 | |
| | Total | 273 | 195 | 1,296 | |

(Note 1) Total number of beds at medical institutions subject to reporting requirement as of December 31, 2006 is 147,836.

Number of Reporting Medical Institutions Subject to Reporting Requirement and Fig. II-1-5 Reports Made by Bed Size

| Bedsize | Number of medical | Number of eporting medica institutions | orting medica Reports made | | | ial of residual disa | | | | |
|----------------------|-------------------------|--|----------------------------|--------------------------|------|----------------------|---------------------|-----------|-------|--|
| category | institutio | January to | January to | January to December 2006 | | | | | | |
| | ns | December 2006 | December 2006 | Death | High | Low | Jnknowi (Note 2) | No choice | Total | |
| 0 - 19 beds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 - 49 beds | 14 | 5 | 15 | 0 | 1 | 7 | 7 | 0 | 15 | |
| 50 - 99 beds | 6 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | |
| 100 - 149 beds | 4 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 150 - 199 beds | 8 | 3 | 8 | 1 | 0 | 7 | 0 | 0 | 8 | |
| 200 - 249 beds | 11 | 7 | 24 | 3 | 3 | 12 | 6 | 0 | 24 | |
| 250 - 299 beds | 18 | 12 | 52 | 4 | 4 | 41 | 3 | 0 | 52 | |
| 300 - 349 beds | 25 | 18 | 60 | 2 | 12 | 31 | 15 | 0 | 60 | |
| 350 - 399 beds | 18 | 14 | 60 | 4 | 10 | 37 | 9 | 0 | 60 | |
| 400 - 449 beds | 25 | 17 | 78 | 9 | 7 | 48 | 13 | 1 | 78 | |
| 450 - 499 beds | 14 | 8 | 31 | 4 | 5 | 8 | 14 | 0 | 31 | |
| 500 - 549 beds | 13 | 10 | 75 | 5 | 17 | 49 | 4 | 0 | 75 | |
| 550 - 599 beds | 12 | 7 | 24 | 6 | 5 | 11 | 2 | 0 | 24 | |
| 600 - 649 beds | 26 | 23 | 179 | 18 | 30 | 110 | 21 | 0 | 179 | |
| 650 - 699 beds | 8 | 6 | 50 | 6 | 6 | 30 | 8 | 0 | 50 | |
| 700 - 749 beds | 12 | 9 | 64 | 12 | 12 | 27 | 13 | 0 | 64 | |
| 750 - 799 beds | 3 | 3 | 13 | 7 | 2 | 3 | 0 | 1 | 13 | |
| 800 - 849 beds | 12 | 11 | 76 | 18 | 8 | 33 | 16 | 1 | 76 | |
| 850 - 899 beds | 4 | 4 | 17 | 2 | 5 | 9 | 1 | 0 | 17 | |
| 900 - 999 beds | 10 | 10 | 67 | 12 | 10 | 33 | 11 | 1 | 67 | |
| 1000 beds or more | 30 | 26 | 401 | 39 | 63 | 235 | 64 | 0 | 401 | |
| Total | 273 | 195 | 1,296 | 152 | 201 | 731 | 208 | 4 | 1,296 | |

There is not always a causal relationship between the occurrence of medical adverse event as well as presence or absence of after-the-fact negligence and "potential of residual disability."
"Unknown" includes cases in which the outcome of a patient was not confirmed by the due date (within 2 weeks) and warning cases (Note 1)

Fig. II-1-6 Number of Medical Institutions Subject to Reporting Requirement by Number of Reports

| Number of reports | January to December, 2006 |
|-------------------|------------------------------|
| 0 | 78 |
| 1 | 40 |
| 2 | 27 |
| 3 | 23 |
| 4 | 28 |
| 5 | 14 |
| 6 | 8 |
| 7 | 4 |
| 8 | 10 |
| 9 | 4 |
| 10 | 6 |
| 11 to 20 | 23 |
| 21 to 30 | 3 |
| 31 to 40 | 2 |
| 41 to 50 | 1 |
| 51 to 100 | 1 |
| 101 to 150 | 1 |
| 151 to 200 | 0 |
| 200 or more | 0 |
| Total | 273 |

that did not have any impact on patients.

B. Reporting status of Voluntarily participating medical institutions

The tabulated number of reporting medical institutions and reports by mother body between January 1 and December 31, 2006 in the Voluntarily participating medical institutions as of December 31, 2006 are shown in Fig. II-1-7.

Fig. II-1-7 Number of Reporting Voluntarily participating medical institutions and Number of Reports

| | Number of registrations | Number of reporting medical institutions | Number of reports |
|-----------------------------------|---------------------------|--|-----------------------------|
| Mother body | (As of December 31, 2006) | January to December 2006 | January to December 2006 |
| Government | 1 | 0 | 0 |
| Municipality | 34 | 8 | 21 |
| Public medical institution | 107 | 11 | 32 |
| Corporation | 135 | 28 | 102 |
| Individual practitioner | 23 | 0 | 0 |
| Total | 300 | 47 | 155 |

[3] Details of Reports Made by Medical Institutions Subject to Reporting Requirement (by Month of Report)

The quarterly tabulation of reports made by medical institutions subject to reporting requirement between January 1 and December 31, 2006 is shown below.

Fig. II-1-8 Month of Occurrence

| Mo | Number of events | | | | | |
|------|-------------------------------|-----|--|--|--|--|
| 2005 | November and before | 77 | | | | |
| 2005 | December | 74 | | | | |
| | January | 96 | | | | |
| | February | 118 | | | | |
| | March | 92 | | | | |
| | April | 108 | | | | |
| | May | 95 | | | | |
| | June | 120 | | | | |
| 2006 | July | 111 | | | | |
| | August | 121 | | | | |
| | September | 106 | | | | |
| | October | 76 | | | | |
| | November | 64 | | | | |
| | December | 37 | | | | |
| | No choice ^(Note 1) | 1 | | | | |
| | Total | | | | | |

(Note 1) "No choice" means no "month of occurrence" was selected.

Fig. II-1-9 Day of Occurrence and Weekday/Holiday Category

| | | 1 | Veekd | ay | | |] | Holida | y | | | No | choice(| Note 1) | | |
|-------------------------------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|-----------------|
| Day of occurrence | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | Aggregate total |
| Mon. | 41 | 52 | 48 | 49 | 190 | 3 | 1 | 3 | 2 | 9 | 1 | 0 | 0 | 0 | 1 | 200 |
| Tue. | 58 | 57 | 78 | 51 | 244 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 246 |
| Wed. | 48 | 41 | 51 | 49 | 189 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 191 |
| Thu. | 64 | 56 | 61 | 42 | 223 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 223 |
| Fri. | 60 | 43 | 61 | 51 | 215 | 1 | 1 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 2 | 220 |
| Sat. | 7 | 11 | 8 | 4 | 30 | 14 | 19 | 25 | 22 | 80 | 0 | 0 | 0 | 0 | 0 | 110 |
| Sun. | 0 | 0 | 0 | 0 | 0 | 25 | 21 | 39 | 16 | 101 | 1 | 0 | 0 | 0 | 1 | 102 |
| No choice ^(Note 1) | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 4 |
| Total | 279 | 260 | 307 | 246 | 1,092 | 43 | 44 | 68 | 41 | 196 | 8 | 0 | 0 | 0 | 8 | 1,296 |

(Note 1) "No choice" means no "day of occurrence" or "weekday/holiday category" was selected.

Fig. II-1-10 Time of Occurrence

| | | | Number of events | S | |
|----------------------|---------------------|------------------|----------------------|------------------------|-------|
| Time of occurrence | January to March | April to June | July to September | October to December | Total |
| 0:00 – before 2:00 | 18 | 11 | 10 | 13 | 52 |
| 2:00 – before 4:00 | 2 | 17 | 10 | 9 | 38 |
| 4:00 – before 6:00 | 14 | 10 | 16 | 6 | 46 |
| 6:00 – before 8:00 | 18 | 16 | 18 | 23 | 75 |
| 8:00 – before 10:00 | 26 | 25 | 33 | 21 | 105 |
| 10:00 – before 12:00 | 52 | 54 | 66 | 55 | 227 |
| 12:00 – before 14:00 | 39 | 24 | 40 | 33 | 136 |
| 14:00 – before 16:00 | 52 | 49 | 61 | 45 | 207 |
| 16:00 – before 18:00 | 42 | 38 | 44 | 26 | 150 |
| 18:00 – before 20:00 | 19 | 21 | 29 | 13 | 82 |
| 20:00 – before 22:00 | 14 | 15 | 16 | 17 | 62 |
| 22:00 – before 24:00 | 16 | 4 | 12 | 11 | 43 |
| Time unknown | 13 | 20 | 20 | 15 | 68 |
| No choice(Note 1) | 5 | 0 | 0 | 0 | 5 |
| Total | 330 | 304 | 375 | 287 | 1,296 |

(Note 1) "No choice" means no "time of occurrence" was selected.

Fig. II-1-11 Patient Age

| | | | Nun | nber of ev | vents | | | | Inpatient | t | |
|--------------------|-------------------------------|------------------|---------------|-------------------|---------------------|-----------------|------------------|---------------|-------------------|---------------------|-----------------|
| Number of patients | Patient age | January to March | April to June | July to September | October to December | Aggregate total | January to March | April to June | July to September | October to December | Aggregate total |
| | 0 to 9 | 11 | 13 | 11 | 18 | 53 | 10 | 12 | 10 | 17 | 49 |
| | 10s | 8 | 6 | 13 | 7 | 34 | 7 | 6 | 10 | 5 | 28 |
| | 20s | 8 | 10 | 19 | 13 | 50 | 5 | 10 | 17 | 10 | 42 |
| | 30s | 17 | 15 | 17 | 16 | 65 | 13 | 13 | 16 | 12 | 54 |
| | 40s | 17 | 24 | 34 | 20 | 95 | 16 | 22 | 29 | 15 | 82 |
| 1 patient | 50s | 34 | 51 | 55 | 41 | 181 | 31 | 44 | 49 | 38 | 162 |
| 1 patient | 60s | 42 | 64 | 73 | 46 | 225 | 40 | 59 | 65 | 40 | 204 |
| | 70s | 78 | 74 | 94 | 67 | 313 | 74 | 69 | 84 | 66 | 293 |
| | 80s | 41 | 36 | 50 | 51 | 175 | 33 | 35 | 43 | 48 | 159 |
| | 90 or above | 8 | 6 | 3 | 6 | 23 | 8 | 6 | 2 | 6 | 22 |
| | No choice ^(Note 1) | 66 | 0 | 0 | 0 | 66 | 35 | 4 | 0 | 0 | 39 |
| | Total | 330 | 299 | 369 | 285 | 1,283 | 272 | 280 | 325 | 257 | 1,134 |
| 2 or more (Note 2) | Total | 1 | - | 6 | 2 | 8 | 1 | 1 | 5 | 1 | 6 |
| Aggre | gate total | 330 | 299 | 375 | 287 | 1,291 | 272 | 280 | 330 | 258 | 1,140 |

⁽Note 1) "No choice" means no "patient age" was selected.

⁽Note 2) Category "2 or more" was added for the check box of "Number of patients" since July 2006.

Fig. II-1-12 Sex of Patients

| Number of | | | N | umber of even | ts | |
|-----------------|-------------------|---------------------|------------------|----------------------|------------------------|-------|
| patients | Sex | January to March | April to June | July to September | October to December | Total |
| | Male | 148 | 148 | 181 | 156 | 633 |
| 1 matiant | Female | 106 | 151 | 188 | 129 | 574 |
| 1 patient | No choice(Note 1) | 76 | 0 | 0 | 0 | 76 |
| | Total | 330 | 299 | 369 | 285 | 1,288 |
| 2 or more | Total | - | - | 6 | 2 | 8 |
| Aggregate total | | 330 | 299 | 375 | 287 | 1,291 |

(Note 1) "No choice" means no "sex of patient" was selected.

Fig. II-1-13 Inpatient/Outpatient Status and Duration of Hospital Stay

| | | | N | Number of even | ts | |
|------------|------------------------------------|---------------------|--|----------------------|------------------------|-------|
| Inpa | tient/outpatient status | January to March | April to June | July to September | October to December | Total |
| | Duration: 0 to 31 days | 192 | 198 | 232 | 154 | 776 |
| Innations | Duration: 32 days or longer | 71 | 77 | 91 | 97 | 336 |
| Inpatient | No choice(Note 1) | 9 | 5 | 7 | 7 | 28 |
| | Total | 272 | April to June July to September October to December 198 232 154 77 91 97 | 258 | 1,140 | |
| | Initial visit | 4 | 2 | 3 | 1 | 10 |
| Outpatient | Follow-up visit | 16 | 22 | 42 | 28 | 108 |
| | Total | 20 | 24 | 45 | 29 | 118 |
| | No choice ^(Note 1) | 38 | 0 | 0 | 0 | 38 |
| | Aggregate total | 330 | 304 | 375 | 287 | 1,296 |

(Note 1) "No choice" means no "inpatient/outpatient status" or "duration of hospitalization" was selected.

Fig. II-1-14 Person Who Identified Event

| | Number of events | | | | | | | | | | |
|-----------------------------|---------------------|------------------|----------------------|------------------------|-------|--|--|--|--|--|--|
| Person who identified event | January to March | April to June | July to September | October to December | Total | | | | | | |
| Medical staff | 274 | 258 | 311 | 241 | 1,084 | | | | | | |
| Patient himself/herself | 8 | 7 | 18 | 16 | 49 | | | | | | |
| Patient's family/caregiver | 4 | 10 | 8 | 7 | 29 | | | | | | |
| Other patient | 10 | 7 | 15 | 5 | 37 | | | | | | |
| Others | 24 | 22 | 23 | 18 | 87 | | | | | | |
| No choice(Note 1) | 10 | 0 | 0 | 0 | 10 | | | | | | |
| Total | 330 | 304 | 375 | 287 | 1,296 | | | | | | |

(Note 1) "No choice" means no "person who identified event" was selected.

Fig. II-1-15 Job Title of Person Involved

| 7.1.00 C | | I | Number of events | s | |
|---|---------------------|---------------|----------------------|------------------------|-------|
| Job title of person involved ^(Note 1) | January to March | April to June | July to September | October to December | Total |
| Doctor | 265 | 233 | 281 | 207 | 986 |
| Dentist | 7 | 11 | 8 | 16 | 42 |
| Nurse | 183 | 156 | 170 | 182 | 691 |
| Assistant nurse | 6 | 5 | 13 | 8 | 32 |
| Pharmacist | 2 | 6 | 6 | 0 | 14 |
| Clinical engineer | 1 | 1 | 1 | 2 | 5 |
| Midwife | 1 | 1 | 0 | 1 | 3 |
| Nursing assistant | 3 | 1 | 1 | 2 | 7 |
| Radiological technologist | 3 | 2 | 4 | 6 | 15 |
| Clinical technologist | 2 | 1 | 4 | 0 | 7 |
| Physical therapist (PT) | 1 | 1 | 1 | 1 | 4 |
| Occupational therapist (OT) | 0 | 0 | 2 | 0 | 2 |
| Medical technologist | 0 | 0 | 0 | 0 | 0 |
| Dental hygienist | 0 | 0 | 0 | 0 | 0 |
| Others | 19 | 18 | 27 | 26 | 90 |
| No choice ^(Note 2) | 23 | 0 | 0 | 0 | 23 |
| Total | 516 | 436 | 518 | 451 | 1,921 |

⁽Note 1) Person involved is a person determined by the medical institution to have been involved in the event occurred; more than 1 person may have been involved.

(Note 2) "No choice" means no "job title of person involved" was selected.

Fig. II-1-16 Summary of Event

| Summary of event | Janua Ma | | Apr Ju | | | y to mber | | ber to mber | То | tal |
|-------------------------------|-------------|-------|-----------|-------|-------|--------------|-------|----------------|-------|-------|
| | Numbe | % | Numbe | % | Numbe | % | Numbe | % | Numbe | % |
| Ordering | 5 | 1.5 | 2 | 0.7 | 0 | 0.0 | 6 | 2.1 | 13 | 1.0 |
| Drug | 15 | 4.5 | 23 | 7.6 | 21 | 5.6 | 18 | 6.3 | 77 | 5.9 |
| Blood transfusion | 2 | 0.6 | 4 | 1.3 | 0 | 0.0 | 1 | 0.3 | 7 | 0.5 |
| Treatment/procedure | 112 | 33.9 | 108 | 35.5 | 137 | 36.5 | 93 | 32.4 | 450 | 34.7 |
| Medical equipment, etc. | 41 | 12.4 | 24 | 7.9 | 29 | 7.8 | 21 | 7.3 | 115 | 8.9 |
| Medical device | 13 | 3.9 | 7 | 2.3 | 10 | 2.7 | 8 | 2.8 | 38 | 2.9 |
| Drainage tube or other tube | 25 | 7.6 | 16 | 5.3 | 18 | 4.8 | 12 | 4.2 | 71 | 5.5 |
| Dental equipment | 3 | 0.9 | 1 | 0.3 | 1 | 0.3 | 1 | 0.3 | 6 | 0.5 |
| Examination/test | 16 | 4.8 | 22 | 7.2 | 25 | 6.7 | 9 | 3.1 | 72 | 5.6 |
| Nursing care | 76 | 23.0 | 69 | 22.7 | 101 | 26.9 | 93 | 32.4 | 339 | 26.2 |
| Others | 62 | 18.8 | 52 | 17.1 | 62 | 16.5 | 46 | 16.0 | 222 | 17.1 |
| No choice ^(Note 1) | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| Total | 330 | 100.0 | 304 | 100.0 | 375 | 100.0 | 287 | 100.0 | 1,296 | 100.0 |

(Note 1) "No choice" means no "summary of event" was selected.

Fig. II-1-17 Potential of Residual Disability

| Potential of Residual Disability (Note 1) | January to March | | Apr Ju | | Jul ₂ Septe | | | ber to mber | Total | |
|--|---------------------|-------|-----------|-------|---------------------------|-------|--------|----------------|--------|-------|
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| Death | 52 | 15.8 | 33 | 10.9 | 38 | 10.1 | 29 | 10.1 | 152 | 11.7 |
| High | 43 | 13.0 | 57 | 18.8 | 63 | 16.8 | 38 | 13.2 | 201 | 15.5 |
| Low | 184 | 55.8 | 163 | 53.6 | 212 | 56.5 | 172 | 59.9 | 731 | 56.4 |
| Unknown ^(Note 2) | 47 | 14.2 | 51 | 16.8 | 62 | 16.5 | 48 | 16.7 | 208 | 16.0 |
| No choice ^(Note 3) | 4 | 1.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 4 | 0.3 |
| Total | 330 | 100.0 | 304 | 100.0 | 375 | 100.0 | 287 | 100.0 | 1,296 | 100.0 |

⁽Note 1) "Potential of residual disability" is not necessarily associated with occurrence of event or negligence.

Fig. II-1-18 Place of Occurrence

| Place of Occurrence | Janua Ma | • | Apr Ju | | July Septe | J | Octob Dece | | То | tal |
|-------------------------------|-------------|-------|-----------|-------|---------------|-------|---------------|-------|-------|-------|
| | Numbe | % | Numbe | % | Numbe | % | Numbe | % | Numbe | % |
| Outpatient examination room | 2 | 0.6 | 10 | 3.3 | 10 | 2.7 | 13 | 4.5 | 35 | 2.7 |
| Outpatient treatment room | 2 | 0.6 | 3 | 1.0 | 5 | 1.3 | 2 | 0.7 | 12 | 0.9 |
| Outpatient lobby | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| Emergency room | 4 | 1.2 | 3 | 1.0 | 4 | 1.1 | 3 | 1.0 | 14 | 1.1 |
| Critical care center | 6 | 1.8 | 2 | 0.7 | 2 | 0.5 | 3 | 1.0 | 13 | 1.0 |
| Patient room | 148 | 44.8 | 123 | 40.5 | 152 | 40.5 | 118 | 41.1 | 541 | 41.7 |
| Ward treatment room | 4 | 1.2 | 5 | 1.6 | 5 | 1.3 | 4 | 1.4 | 18 | 1.4 |
| Operation room | 61 | 18.5 | 42 | 13.8 | 73 | 19.5 | 47 | 16.4 | 223 | 17.2 |
| ICU | 6 | 1.8 | 13 | 4.3 | 5 | 1.3 | 6 | 2.1 | 30 | 2.3 |
| CCU | 1 | 0.3 | 2 | 0.7 | 0 | 0.0 | 1 | 0.3 | 4 | 0.3 |
| NICU | 0 | 0.0 | 3 | 1.0 | 1 | 0.3 | 1 | 0.3 | 5 | 0.4 |
| Examination room | 5 | 1.5 | 6 | 2.0 | 8 | 2.1 | 3 | 1.0 | 22 | 1.7 |
| Catheterization laboratory | 9 | 2.7 | 14 | 4.6 | 12 | 3.2 | 9 | 3.1 | 44 | 3.4 |
| Radiotherapy room | 2 | 0.6 | 2 | 0.7 | 2 | 0.5 | 3 | 1.0 | 9 | 0.7 |
| Radiography room | 8 | 2.4 | 7 | 2.3 | 12 | 3.2 | 3 | 1.0 | 30 | 2.3 |
| Radioactive scanning room | 0 | 0.0 | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 1 | 0.1 |
| Dialysis room | 4 | 1.2 | 3 | 1.0 | 1 | 0.3 | 3 | 1.0 | 11 | 0.8 |
| Delivery room | 1 | 0.3 | 1 | 0.3 | 1 | 0.3 | 1 | 0.3 | 4 | 0.3 |
| Rehabilitation room | 1 | 0.3 | 1 | 0.3 | 2 | 0.5 | 1 | 0.3 | 5 | 0.4 |
| Restroom | 8 | 2.4 | 8 | 2.6 | 5 | 1.3 | 8 | 2.8 | 29 | 2.2 |
| Hallway | 8 | 2.4 | 6 | 2.0 | 16 | 4.3 | 14 | 4.9 | 44 | 3.4 |
| Bathroom | 4 | 1.2 | 8 | 2.6 | 6 | 1.6 | 3 | 1.0 | 21 | 1.6 |
| Stairway | 0 | 0.0 | 1 | 0.3 | 2 | 0.5 | 0 | 0.0 | 3 | 0.2 |
| Unknown | 3 | 0.9 | 6 | 2.0 | 3 | 0.8 | 5 | 1.7 | 17 | 1.3 |
| Others | 42 | 12.7 | 35 | 11.5 | 47 | 12.5 | 36 | 12.5 | 160 | 12.3 |
| No choice ^(Note 1) | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total | 330 | 100.0 | 304 | 100.0 | 375 | 100.0 | 287 | 100.0 | 1,296 | 100.0 |

(Note 1) "No choice" means no "place of occurrence" was selected.

⁽Note 2) "Unknown" includes indefinite outcome at the time of reporting (within 2 weeks) and events of warning that did not affect patients' conditions in any way.

⁽Note 3) "No choice" means no "potential of residual disability" was selected.

Fig. II-1-19 Cause of Event

| Cause of Event (Note 1) | Janua Ma | • | Apr Ju | il to ne | Jul ₂ Septe | y to mber | Octol Dece | ber to mber | То | tal |
|--|-------------|-------|-----------|-------------|---------------------------|--------------|---------------|----------------|-------|-------|
| | Numbe | % | Numbe | % | Numbe | % | Numbe | % | Numbe | % |
| Neglect to check | 65 | 15.2 | 77 | 14.6 | 101 | 15.0 | 85 | 15.8 | 328 | 15.1 |
| Neglect to observe | 59 | 13.8 | 69 | 13.1 | 86 | 12.7 | 71 | 13.2 | 285 | 13.1 |
| Misjudgment | 43 | 10.0 | 66 | 12.5 | 86 | 12.7 | 74 | 13.7 | 269 | 12.4 |
| Lack of knowledge | 13 | 3.0 | 23 | 4.4 | 29 | 4.3 | 19 | 3.5 | 84 | 3.9 |
| Deficiency of technique/skill | 23 | 5.4 | 34 | 6.5 | 32 | 4.7 | 21 | 3.9 | 110 | 5.1 |
| Delayed reporting | 3 | 0.7 | 5 | 0.9 | 8 | 1.2 | 9 | 1.7 | 25 | 1.2 |
| Under unusual physical condition | 12 | 2.8 | 12 | 2.3 | 16 | 2.4 | 10 | 1.9 | 50 | 2.3 |
| Under unusual psychological condition | 11 | 2.6 | 5 | 0.9 | 8 | 1.2 | 4 | 0.7 | 28 | 1.3 |
| System failure | 7 | 1.6 | 12 | 2.3 | 15 | 2.2 | 13 | 2.4 | 47 | 2.2 |
| Inadequate coordination | 27 | 6.3 | 31 | 5.9 | 37 | 5.5 | 38 | 7.1 | 133 | 6.1 |
| Inadequate documentation | 5 | 1.2 | 6 | 1.1 | 9 | 1.3 | 10 | 1.9 | 30 | 1.4 |
| Similarity in patient's appearance or name | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 | 0 | 0.0 | 1 | 0.0 |
| Busy working condition | 12 | 2.8 | 14 | 2.7 | 20 | 3.0 | 10 | 1.9 | 56 | 2.6 |
| Problem in environment | 12 | 2.8 | 14 | 2.7 | 17 | 2.5 | 15 | 2.8 | 58 | 2.7 |
| Problem in the drug | 3 | 0.7 | 1 | 0.2 | 3 | 0.4 | 6 | 1.1 | 13 | 0.6 |
| Problem in medical device | 4 | 0.9 | 3 | 0.6 | 12 | 1.8 | 9 | 1.7 | 28 | 1.3 |
| Problem in other items | 7 | 1.6 | 6 | 1.1 | 5 | 0.7 | 12 | 2.2 | 30 | 1.4 |
| Problem in facility | 13 | 3.0 | 10 | 1.9 | 14 | 2.1 | 7 | 1.3 | 44 | 2.0 |
| Problem in education/training | 5 | 1.2 | 32 | 6.1 | 24 | 3.6 | 19 | 3.5 | 80 | 3.7 |
| Lack of explanation | 16 | 3.7 | 24 | 4.6 | 29 | 4.3 | 16 | 3.0 | 85 | 3.9 |
| Others | 66 | 15.4 | 83 | 15.7 | 123 | 18.2 | 91 | 16.9 | 363 | 16.7 |
| No choice ^(Note 2) | 22 | 5.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 22 | 0.0 |
| Total | 428 | 100.0 | 527 | 100.0 | 675 | 100.0 | 539 | 100.0 | 2,169 | 100.0 |

⁽Note 1) "Cause of event" may be more than one.

(Note 2) "No choice" means no "cause of event" was selected.

Fig. II-1-20 Clinical Department

| Clinical Department (Note 1) | Januar Mar | | Apri Jun | | July Septen | | Octobe Decen | | Total | |
|-------------------------------|---------------|-------|-------------|-------|----------------|-------|-----------------|-------|--------|-------|
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| Internal medicine | 22 | 5.6 | 22 | 6.1 | 29 | 6.2 | 25 | 7.2 | 98 | 6.2 |
| Anesthesiology | 11 | 2.5 | 11 | 3.0 | 14 | 3.0 | 6 | 1.7 | 42 | 2.7 |
| Cardiovascular medicine | 24 | 6.1 | 26 | 7.2 | 22 | 4.7 | 16 | 4.6 | 88 | 5.6 |
| Neurology | 8 | 2.0 | 7 | 1.9 | 13 | 2.8 | 10 | 2.9 | 38 | 2.4 |
| Respiratory tract medicine | 12 | 3.0 | 16 | 4.4 | 26 | 5.6 | 15 | 4.3 | 69 | 4.4 |
| Gastrointestinal medicine | 31 | 7.8 | 29 | 8.0 | 23 | 4.9 | 17 | 4.9 | 100 | 6.3 |
| Hematology | 9 | 2.3 | 7 | 1.9 | 7 | 1.5 | 6 | 1.7 | 29 | 1.8 |
| Circulatory surgery | 4 | 1.0 | 4 | 1.1 | 5 | 1.1 | 8 | 2.3 | 21 | 1.3 |
| Allergy | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| Rheumatism | 2 | 0.5 | 1 | 0.3 | 3 | 0.6 | 3 | 0.9 | 9 | 0.6 |
| Pediatrics | 14 | 3.5 | 13 | 3.6 | 15 | 3.2 | 17 | 4.9 | 59 | 3.7 |
| General surgery | 29 | 7.3 | 26 | 7.2 | 36 | 7.7 | 24 | 6.9 | 115 | 7.3 |
| Orthopedics | 30 | 7.6 | 26 | 7.2 | 51 | 10.9 | 23 | 6.6 | 130 | 8.3 |
| Plastic surgery | 7 | 1.8 | 3 | 0.8 | 3 | 0.6 | 5 | 1.4 | 18 | 1.1 |
| Cosmetic surgery | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Neurosurgery | 17 | 4.3 | 24 | 6.6 | 29 | 6.2 | 14 | 4.0 | 84 | 5.3 |
| Respiratory surgery | 15 | 3.8 | 11 | 3.0 | 10 | 2.1 | 4 | 1.1 | 40 | 2.5 |
| Cardiovascular surgery | 17 | 4.5 | 14 | 3.9 | 9 | 1.9 | 14 | 4.0 | 54 | 3.4 |
| Pediatric surgery | 3 | 0.8 | 0 | 0.0 | 3 | 0.6 | 3 | 0.9 | 9 | 0.6 |
| Pain clinic | 0 | 0.0 | 0 | 0.0 | 3 | 0.6 | 0 | 0.0 | 3 | 0.2 |
| Dermatology | 5 | 1.3 | 4 | 1.1 | 4 | 0.9 | 5 | 1.4 | 18 | 1.1 |
| Urology | 10 | 2.5 | 10 | 2.8 | 12 | 2.6 | 10 | 2.9 | 42 | 2.7 |
| Venereology | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Proctology | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.3 | 1 | 0.1 |
| Gynecology/Obstetrics | 6 | 1.5 | 13 | 3.6 | 16 | 3.4 | 7 | 2.0 | 42 | 2.7 |
| Obstetrics | 4 | 1.0 | 1 | 0.3 | 2 | 0.4 | 2 | 0.6 | 9 | 0.6 |
| Gynecology | 5 | 1.3 | 2 | 0.6 | 6 | 1.3 | 5 | 1.4 | 18 | 1.1 |
| Ophthalmology | 6 | 1.5 | 8 | 2.2 | 6 | 1.3 | 8 | 2.3 | 28 | 1.8 |
| Otolaryngology | 9 | 2.3 | 8 | 2.2 | 13 | 2.8 | 12 | 3.4 | 42 | 2.7 |
| Psychosomatic medicine | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| Psychiatry | 14 | 3.5 | 5 | 1.4 | 26 | 5.6 | 32 | 9.2 | 77 | 4.9 |
| Rehabilitation | 6 | 1.5 | 1 | 0.3 | 3 | 0.6 | 0 | 0.0 | 10 | 0.6 |
| Radiology | 10 | 2.5 | 9 | 2.5 | 13 | 2.8 | 12 | 3.4 | 44 | 2.8 |
| Dentistry | 2 | 0.5 | 5 | 1.4 | 2 | 0.4 | 4 | 1.1 | 13 | 0.8 |
| Orthodontics | 0 | 0.0 | 0 | 0.0 | 1 | 0.2 | 1 | 0.3 | 2 | 0.1 |
| Pediatric dentistry | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Dental/oral surgery | 6 | 1.5 | 4 | 1.1 | 3 | 0.6 | 8 | 2.3 | 21 | 1.3 |
| Unknown | 0 | 0 | 0 | 0.0 | 1 | 0.2 | 0 | 0.0 | 1 | 0.1 |
| Others | 50 | 12.6 | 53 | 14.6 | 58 | 12.4 | 32 | 9.2 | 193 | 12.3 |
| No choice ^(Note 2) | 6 | 1.5 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 6 | 0.4 |
| Total | 396 | 100.0 | 363 | 100.0 | 467 | 100.0 | 349 | 100.0 | 1,575 | 100.0 |

(Note 1) "Clinical department" may be more than one.

(Note 2) "No choice" means no "clinical department" was selected.

Fig. II-1-21 Years of Experience of Person Involved by Job Title (Doctor, Dentist, Nurse, Pharmacist)

| | | | Doctor | | | Dentist | | | | | | | |
|--|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|--|--|--|
| Years of experience × Job title of person involved ^(Note 1) | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | | | |
| 0 year | 8 | 23 | 15 | 5 | 51 | 0 | 2 | 1 | 2 | 5 | | | |
| 1 year | 5 | 2 | 1 | 8 | 16 | 0 | 1 | 0 | 2 | 3 | | | |
| 2 years | 10 | 5 | 6 | 8 | 29 | 1 | 0 | 0 | 2 | 3 | | | |
| 3 years | 15 | 9 | 11 | 9 | 44 | 0 | 0 | 2 | 1 | 3 | | | |
| 4 years | 23 | 8 | 16 | 11 | 58 | 1 | 1 | 1 | 1 | 4 | | | |
| 5 years | 5 | 11 | 16 | 7 | 39 | 1 | 0 | 0 | 0 | 1 | | | |
| 6 years | 10 | 15 12 | | 14 | 51 | 0 | 0 | 0 | 1 | 1 | | | |
| 7 years | 14 | 10 | 16 | 11 | 51 | 0 | 1 | 0 | 0 | 1 | | | |
| 8 years | 12 | 14 | 18 | 8 | 52 | 0 | 0 | 2 | 0 | 2 | | | |
| 9 years | 16 | 14 | 9 | 9 | 48 | 0 | 0 | 0 | 0 | 0 | | | |
| 10 years | 10 | 14 | 19 | 14 | 57 | 0 | 0 | 0 | 1 | 1 | | | |
| 11 to 20 years | 76 | 83 | 96 | 63 | 318 | 3 | 4 | 1 | 4 | 12 | | | |
| 21 to 30 years | 27 | 23 | 30 | 29 | 109 | 1 | 1 | 0 | 2 | 4 | | | |
| 30 years or longer | 3 | 2 | 16 | 11 | 32 | 0 | 1 | 1 | 0 | 2 | | | |
| No choice ^(Note 2) | 31 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | | | |
| Total | 265 | 233 | 281 | 207 | 986 | 7 | 11 | 8 | 16 | 42 | | | |

⁽Note 1) Person involved is a person determined by the medical institution to have been involved in the event occurred; more than 1 person may have been involved.

(Note 2) "No choice" means no "years of experience" was selected.

Fig. II-1-22 Number of Years Person Involved (Doctor, Dentist, Nurse, Pharmacist) Has Been Working at Current Department

| | | | Doctor | | | | | Dentist | | |
|--|--------------------------------|-----|-------------------|------------------------------|-----|------------------|---------------|-------------------|---------------------|-------|
| Number of years at current department × Job title of person involved ^(Note 1) | January to March April to June | | July to September | October to December Total | | January to March | April to June | July to September | October to December | Total |
| 0 year | 62 | 68 | 67 | 45 | 242 | 0 | 2 | 3 | 2 | 7 |
| 1 year | 37 | 23 | 31 | 26 | 117 | 1 | 1 | 0 | 3 | 5 |
| 2 years | 19 | 15 | 24 | 17 | 75 | 1 | 0 | 2 | 2 | 5 |
| 3 years | 19 | 18 | 16 | 13 | 66 | 0 | 0 | 1 | 0 | 1 |
| 4 years | 16 | 12 | 24 | 18 | 70 | 1 | 1 | 0 | 1 | 3 |
| 5 years | 17 | 10 | 19 | 12 | 58 | 1 | 1 | 0 | 1 | 3 |
| 6 years | 8 | 12 | 11 | 12 | 43 | 0 | 1 | 0 | 1 | 2 |
| 7 years | 5 | 11 | 14 | 7 | 37 | 0 | 0 | 0 | 1 | 1 |
| 8 years | 10 | 6 | 7 | 5 | 28 | 0 | 0 | 0 | 0 | 0 |
| 9 years | 6 | 9 | 4 | 3 | 22 | 0 | 1 | 0 | 0 | 1 |
| 10 years | 6 | 7 | 13 | 11 | 37 | 0 | 1 | 0 | 0 | 1 |
| 11 to 20 years | 23 | 36 | 41 | 24 | 124 | 2 | 1 | 1 | 3 | 7 |
| 21 to 30 years | 2 | 6 | 7 | 14 | 29 | 0 | 2 | 1 | 2 | 5 |
| 30 years or longer | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| No choice ^(Note 2) | 35 | 0 | 0 | 0 | 35 | 1 | 0 | 0 | 0 | 1 |
| Total | 265 | 233 | 281 | 207 | 986 | 7 | 11 | 8 | 16 | 42 |

⁽Note 1) Person involved is a person determined by the medical institution to have been involved in the event occurred; more than 1 person may have been involved.

(Note 2) "No choice" means no "number of years at current department" was selected.

| | | Nurse | | | | I | Pharmacis | t | |
|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|
| January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| 46 | 39 | 31 | 56 | 172 | 2 | 1 | 0 | 0 | 3 |
| 35 | 41 | 45 | 38 | 159 | 0 | 2 | 3 | 0 | 5 |
| 41 | 30 | 26 | 30 | 127 | 0 | 1 | 0 | 0 | 1 |
| 17 | 11 | 20 | 29 | 77 | 0 | 0 | 0 | 0 | 0 |
| 4 | 9 | 13 | 8 | 34 | 0 | 0 | 1 | 0 | 1 |
| 4 | 8 | 10 | 6 | 28 | 0 | 1 | 1 | 0 | 2 |
| 4 | 7 | 5 | 3 | 19 | 0 | 0 | 0 | 0 | 0 |
| 3 | 3 | 3 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | 1 | 2 | 5 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 3 | 2 | 9 | 0 | 0 | 1 | 0 | 1 |
| 2 | 2 | 4 | 1 | 9 | 0 | 0 | 0 | 0 | 0 |
| 2 | 1 | 7 | 7 | 17 | 0 | 1 | 0 | 0 | 1 |
| 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 |
| 183 | 156 | 170 | 182 | 691 | 2 | 6 | 6 | 0 | 14 |

Fig. II-1-23 Working Hours (in week previous to event) (Note 1) of Person Involved (Doctors) (Note 2)

| Working hours | January to March | April to June | July to September | October to December | January to December |
|---|---------------------|------------------|----------------------|------------------------|------------------------|
| <0 to 8 hours | 1 | 4 | 4 | 1 | 10 |
| <8 to 16 hours | 3 | 1 | 2 | 1 | 7 |
| <16 to 24 hours | 1 | 1 | 1 | 1 | 4 |
| <24 to 32 hours | 5 | 6 | 9 | 2 | 22 |
| <32 to 40 hours | 4 | 33 | 12 | 15 | 64 |
| <40 to 48 hours | 65 | 58 | 83 | 66 | 272 |
| <48 to 56 hours | 30 | 48 | 59 | 20 | 157 |
| <56 to 64 hours | 29 | 31 | 42 | 49 | 151 |
| <64 to 72 hours | 20 | 27 | 29 | 23 | 99 |
| <72 to 80 hours | 7 | 5 | 7 | 9 | 28 |
| <80 to 88 hours | 8 | 7 | 15 | 13 | 43 |
| <88 to 96 hours | 7 | 0 | 2 | 1 | 10 |
| 96 hours or more | 5 | 8 | 14 | 6 | 33 |
| Unknown | 8 | 4 | 2 | 0 | 14 |
| No choice | 72 | 0 | 0 | 0 | 72 |
| Total | 265 | 233 | 281 | 207 | 986 |
| Average working hours (not including unknown/no choice) | 53.8 | 50.9 | 53.9 | 54.3 | 53.2 |

⁽Note 1) The working hours may include not only in-hospital but also out-of-hospital working hours.

Fig. II-1-24 Working Hours (in week previous to event) (Note 1) of Person Involved (Nurses) (Note 2)

| Working hours | January to March | April to June | July to September | October to December | January to December |
|---|---------------------|------------------|----------------------|------------------------|------------------------|
| <0 to 8 hours | 1 | 0 | 9 | 0 | 10 |
| <8 to 16 hours | 1 | 0 | 1 | 3 | 5 |
| <16 to 24 hours | 5 | 2 | 1 | 2 | 10 |
| <24 to 32 hours | 14 | 12 | 15 | 14 | 55 |
| <32 to 40 hours | 49 | 41 | 41 | 54 | 185 |
| <40 to 48 hours | 75 | 77 | 81 | 82 | 315 |
| <48 to 56 hours | 14 | 18 | 16 | 18 | 66 |
| <56 to 64 hours | 3 | 6 | 6 | 9 | 24 |
| <64 to 72 hours | 0 | 0 | 0 | 0 | 0 |
| <72 to 80 hours | 0 | 0 | 0 | 0 | 0 |
| <80 to 88 hours | 0 | 0 | 0 | 0 | 0 |
| <88 to 96 hours | 0 | 0 | 0 | 0 | 0 |
| 96 hours or more | 0 | 0 | 0 | 0 | 0 |
| Unknown | 1 | 0 | 0 | 0 | 1 |
| No choice | 20 | 0 | 0 | 0 | 20 |
| Total | 183 | 156 | 170 | 182 | 691 |
| Average working hours (not including unknown/no choice) | 37.4 | 39.3 | 36.5 | 38.2 | 37.8 |

⁽Note 1) The working hours may include not only in-hospital but also out-of-hospital working hours.

⁽Note 2) The person involved is a person who is determined to be related to the relevant event by medical institutions and may include part-time staff. The person involved also may give multiple answers.

⁽Note 2) The person involved is a person who is determined to be related to the relevant event by medical institutions and may include part-time staff. The person involved also may give multiple answers.

Fig. II-1-25 Number of Night Shifts (in week previous to event) of Person Involved (Doctors)

| Number of night shifts | January to March | April to June | July to September | October to December | January to December |
|--|---------------------|------------------|----------------------|------------------------|------------------------|
| Zero | 91 | 93 | 122 | 93 | 399 |
| 1 time | 74 | 64 | 92 | 74 | 304 |
| 2 times | 17 | 23 | 23 | 18 | 81 |
| 3 times | 5 | 10 | 4 | 4 | 23 |
| 4 times | 1 | 1 | 1 | 1 | 4 |
| 5 times | 0 | 1 | 0 | 0 | 1 |
| 6 times | 0 | 0 | 1 | 0 | 1 |
| 7 times | 0 | 0 | 1 | 0 | 1 |
| Unknown | 11 | 41 | 37 | 17 | 106 |
| No choice | 66 | 0 | 0 | 0 | 66 |
| Total | 265 | 233 | 281 | 207 | 986 |
| Average number of night shifts (not including unknown/no choice) | 0.68 | 0.78 | 0.68 | 0.66 | 0.70 |

Fig. II-1-26 Number of Night Shifts (in week previous to event) of Person Involved (Nurses)

| Number of night shifts | January to March | April to June | July to September | October to December | January to December |
|--|---------------------|------------------|----------------------|------------------------|------------------------|
| Zero | 28 | 27 | 41 | 34 | 130 |
| 1 time | 54 | 40 | 37 | 47 | 178 |
| 2 times | 68 | 55 | 62 | 70 | 255 |
| 3 times | 13 | 22 | 18 | 19 | 72 |
| 4 times | 2 | 3 | 2 | 5 | 12 |
| 5 times | 0 | 1 | 0 | 0 | 1 |
| 6 times | 0 | 0 | 0 | 0 | 0 |
| 7 times | 0 | 0 | 0 | 0 | 0 |
| Unknown | 1 | 8 | 10 | 7 | 26 |
| No choice | 17 | 0 | 0 | 0 | 17 |
| Total | 183 | 156 | 170 | 182 | 691 |
| Average number of night shifts (not including unknown/no choice) | 1.44 | 1.57 | 1.39 | 1.51 | 1.48 |

Fig. II-1-27 Cause of Event and Summary of Event

| | | Ordering | | | | | | Drug | | | I | Blood | trans | fusio | n | | Treatment M/procedure | | | | Med | Medical equipment, etc. Medical device | | | |
|---|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|-----------------------|-------------------|---------------------|-------|------------------|---|-------------------|---------------------|-------|
| Cause of event ^(Note 1) × summary of event | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Neglect to check | 5 | 2 | 0 | 5 | 12 | 10 | 16 | 16 | 11 | 53 | 2 | 2 | 0 | 1 | 5 | 31 | 32 | 46 | 38 | 147 | 5 | 3 | 4 | 4 | 16 |
| Neglect to observe | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 2 | 9 | 0 | 0 | 0 | 0 | 0 | 16 | 18 | 21 | 16 | 71 | 2 | 2 | 1 | 2 | 7 |
| Misjudgment | 1 | 1 | 0 | 2 | 4 | 4 | 1 | 3 | 4 | 12 | 0 | 1 | 0 | 0 | 1 | 21 | 28 | 31 | 25 | 105 | 2 | 2 | 2 | 3 | 9 |
| Lack of knowledge | 0 | 0 | 0 | 3 | 3 | 7 | 4 | 5 | 2 | 18 | 0 | 0 | 0 | 0 | 0 | 10 | 8 | 10 | 9 | 37 | 1 | 2 | 1 | 2 | 6 |
| Deficiency of technique/skill | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 17 | 15 | 9 | 50 | 0 | 0 | 0 | 1 | 1 |
| Delayed reporting | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 0 | 0 | 0 | 1 |
| Under unusual physical condition | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 6 | 21 | 0 | 1 | 0 | 1 | 2 |
| Under unusual psychological condition | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 3 | 2 | 7 | 1 | 0 | 0 | 0 | 1 |
| System failure | 0 | 0 | 0 | 1 | 1 | 2 | 4 | 3 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 3 | 2 | 4 | 6 | 15 | 0 | 1 | 1 | 1 | 3 |
| Inadequate coordination | 3 | 0 | 0 | 4 | 7 | 0 | 5 | 3 | 5 | 13 | 1 | 1 | 0 | 1 | 3 | 8 | 10 | 12 | 12 | 42 | 1 | 0 | 0 | 1 | 2 |
| Inadequate documentation | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 1 | 6 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 0 | 0 | 0 | 1 |
| Similarity in patient's appearance or name | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Busy working condition | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 5 | 4 | 14 | 0 | 0 | 0 | 0 | 0 |
| Problem in environment | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 1 | 2 | 1 | 1 | 3 | 7 | 0 | 0 | 0 | 1 | 1 |
| Problem in the drug | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 |
| Problem in medical device | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 | 0 | 2 | 3 | 9 | 8 | 1 | 5 | 3 | 17 |
| Problem in other items | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 5 | 11 | 2 | 0 | 0 | 1 | 3 |
| Problem in facility | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 4 | 0 | 1 | 0 | 0 | 1 |
| Problem in education/training | 0 | 0 | 0 | 3 | 3 | 4 | 5 | 4 | 1 | 14 | 0 | 1 | 0 | 0 | 1 | 5 | 6 | 5 | 4 | 20 | 0 | 2 | 0 | 1 | 3 |
| Lack of explanation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 7 | 3 | 22 | 2 | 0 | 0 | 1 | 3 |
| Others | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 4 | 2 | 11 | 0 | 2 | 0 | 0 | 2 | 36 | 30 | 52 | 26 | 144 | 4 | 2 | 1 | 1 | 8 |
| No choice ^(Note 2) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| Total | 11 | 3 | 0 | 22 | 36 | 36 | 54 | 46 | 32 | 168 | 3 | 13 | 0 | 2 | 18 | 177 | 171 | 226 | 177 | 751 | 30 | 17 | 15 | 23 | 85 |

(Note 1) "Cause of event" may have been more than one.

(Note 2) "No choice" means no "cause of event" or "summary of event" was selected.

| Dra | Medical equipment, etc. rainage tube or other Dental equipment L 2 L 2 L 2 L 2 | | | | | | | ipmer | nt | | Exa | mina | tion | | | Nur | sing | care | | | (| Other | s | | | No c | hoice | (Note 2) | | |
|------------------|--|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | Aggregate total |
| 9 | 3 | 8 | 3 | 23 | 1 | 0 | 0 | 1 | 2 | 3 | 6 | 3 | 3 | 15 | 7 | 12 | 17 | 12 | 48 | 14 | 1 | 7 | 7 | 29 | 0 | 0 | 0 | 0 | 0 | 350 |
| 12 | 5 | 3 | 5 | 25 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 5 | 27 | 30 | 45 | 34 | 136 | 10 | 8 | 13 | 12 | 43 | 0 | 0 | 0 | 0 | 0 | 296 |
| 7 | 5 | 7 | 3 | 22 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 0 | 10 | 28 | 15 | 29 | 30 | 102 | 7 | 10 | 10 | 7 | 34 | 1 | 0 | 0 | 0 | 1 | 300 |
| 2 | 3 | 3 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 | 3 | 4 | 6 | 1 | 14 | 0 | 2 | 2 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 95 |
| 3 | 2 | 5 | 1 | 11 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 3 | 0 | 10 | 3 | 8 | 8 | 5 | 24 | 1 | 1 | 1 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 106 |
| 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 5 | 13 | 0 | 0 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 30 |
| 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 | 4 | 2 | 5 | 2 | 13 | 3 | 3 | 4 | 1 | 11 | 0 | 0 | 0 | 0 | 0 | 52 |
| 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 3 | 1 | 3 | 1 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 24 |
| 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 5 | 0 | 1 | 2 | 0 | 3 | 2 | 0 | 4 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 47 |
| 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 14 | 7 | 13 | 12 | 46 | 3 | 5 | 7 | 2 | 17 | 0 | 0 | 0 | 0 | 0 | 136 |
| 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 5 | 4 | 12 | 1 | 0 | 2 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 32 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 | 7 | 5 | 6 | 2 | 20 | 5 | 1 | 4 | 3 | 13 | 0 | 0 | 0 | 0 | 0 | 59 |
| 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 12 | 7 | 8 | 8 | 35 | 5 | 3 | 7 | 2 | 17 | 0 | 0 | 0 | 0 | 0 | 67 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 3 | 0 | 1 | 1 | 5 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 41 |
| 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 7 | 0 | 1 | 1 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 28 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 7 | 4 | 6 | 2 | 19 | 3 | 5 | 8 | 3 | 19 | 0 | 0 | 0 | 0 | 0 | 45 |
| 0 | 2 | 2 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 1 | 0 | 8 | 7 | 5 | 9 | 7 | 28 | 4 | 6 | 3 | 2 | 15 | 0 | 0 | 0 | 0 | 0 | 97 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 5 | 18 | 14 | 16 | 10 | 58 | 4 | 3 | 4 | 2 | 13 | 0 | 0 | 0 | 0 | 0 | 101 |
| 4 | 3 | 1 | 3 | 11 | 0 | 1 | 1 | 0 | 2 | 3 | 4 | 10 | 4 | 21 | 10 | 12 | 29 | 27 | 78 | 27 | 25 | 25 | 28 | 105 | 0 | 0 | 0 | 0 | 0 | 382 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 15 |
| 44 | 27 | 34 | 21 | 126 | 3 | 1 | 1 | 1 | 6 | 23 | 31 | 34 | 11 | 99 | 154 | 133 | 212 | 164 | 663 | 94 | 77 | 107 | 86 | 364 | 1 | 0 | 0 | 0 | 1 | 2,317 |

Fig. II-1-28 Situation and Potential of Residual Disability

| | | | Death | | | | | High | | |
|---|---------------------|---------------|----------------------|------------------------|-------|---------------------|---------------|----------------------|------------------------|-------|
| | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Related to drug | | | | | | | | | | |
| Drug preparation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Subcutaneous/intramuscular injection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Intravenous injection | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 |
| Arterial injection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peripheral intravenous drop | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| Central venous injection | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Oral administration | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| Nose drop/eye drop/ear drop | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other drug prescription/administration | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 3 |
| Oral drug dispensing/management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Injection dispensing/management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dispensing/management, others | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Related to blood transfusion | , | , | , | | , | , | | , | | |
| Pre-transfusion testing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Blood transfusion | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| Blood transfusion, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Related to treatment/procedure | 1 | 1 |) | | 1 | | | 1 | | |
| Craniotomy | 1 | 1 | 0 | 0 | 2 | 0 | 1 | 2 | 0 | 3 |
| Thoracotomy | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 2 | 0 | 8 |
| Cardiotomy | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 2 |
| Laparotomy | 4 | 1 | 0 | 1 | 6 | 1 | 1 | 2 | 2 | 6 |
| Extremities | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 3 |
| Endoscopic surgery | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 5 |
| Other surgery | 1 | 0 | 0 | 0 | 1 | 0 | 7 | 6 | 0 | 13 |
| Preparation for surgery | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Preoperative procedure | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| Postoperative procedure | 1 | 1 | 1 | 1 | 4 | 1 | 2 | 0 | 0 | 3 |
| Surgery, others | 1 | 0 | 1 | 0 | 2 | 4 | 0 | 1 | 1 | 6 |
| General anesthesia (inhalation anesthesia and intravenous anesthesia) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Local anesthesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Inhalation anesthesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Intravenous anesthesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Vertebral/epidural anesthesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Anesthesia, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Caesarean section | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Delivery and artificial abortion, others | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 2 | 3 |
| Blood purification (including hemodialysis) | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| IVR (ex. angiocatheter) | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 4 |
| Radiotherapy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rehabilitation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Invasive dental treatment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| invasive uchtai ti cathicht | U | U | U | U | U | U | U | U | U | U |

| | | Low | | | | Ţ | Jnknow | n | | | No | choice ^{(N} | ote 1) | | _ |
|---------------------|---------------|----------------------|------------------------|-------|---------------------|---------------|----------------------|------------------------|-------|---------------------|---------------|----------------------|------------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | Aggregate total |
| | | | | | | | | | | | | | | | 93 |
| 3 | 0 | 1 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 1 | 2 | 1 | 4 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 4 | 1 | 1 | 5 | 11 | 2 | 1 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 19 |
| 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5 | 3 | 0 | 4 | 12 | 0 | 3 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 19 |
| 0 | 1 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 7 |
| 1 | 3 | 3 | 3 | 10 | 0 | 1 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 16 |
| 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 0 | 2 | 1 | 0 | 3 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| | | , | | | | , | | | | | | , | | | 7 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | , | | | | , | | | | | | , | | | 402 |
| 0 | 4 | 1 | 1 | 6 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 13 |
| 3 | 2 | 0 | 1 | 6 | 0 | 1 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 19 |
| 3 | 0 | 2 | 1 | 6 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 12 |
| 9 | 6 | 9 | 4 | 28 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 42 |
| 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 3 | 3 | 5 | 5 | 16 | 1 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 25 |
| 6 | 3 | 8 | 10 | 27 | 1 | 2 | 6 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 53 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3 | 1 | 3 | 1 | 8 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 17 |
| 1 | 4 | 7 | 4 | 16 | 3 | 0 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 29 |
| 1 | 0 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1 | 2 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 2 | 1 | 1 | 3 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 3 | 5 | 3 | 4 | 15 | 0 | 1 | 1 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 25 |
| 0 | 1 | 1 | 1 | 3 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| | | | Death | | | | | High | | |
|---|---------------------|---------------|----------------------|------------------------|-------|---------------------|---------------|----------------------|------------------------|-------|
| | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Endoscopic treatment | 3 | 1 | 1 | 0 | 5 | 1 | 1 | 1 | 0 | 3 |
| Treatment, others | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 0 | 8 |
| Central venous line | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Peripheral venous line | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Catheter for blood purification | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Feeding tube (NG, ED) | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| Urethral catheter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drainage procedure | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| Wound care | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 2 |
| Tube placement, others | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Tracheal intubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Tracheotomy | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Cardiac compression | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oxygen therapy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Emergency procedure, others | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Related to use/management of medical equipr | | , | 1 - | | 1 | 1 | 1 | 1 | 1 | 1 |
| Mechanical ventilator | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 2 |
| Oxygen therapy equipment | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Oxygenator | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defibrillator | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pace maker | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Infusion/transfusion pump | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Blood purification device | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ECG, blood pressure monitor | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pulse oxymeter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Use/management of medical equipment (device), others | 2 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 3 |
| Related to use/management of drainage tube | or other | tube | , | | , | , | | , | , | , |
| Central venous line | 1 | 1 | 1 | 1 | 4 | 0 | 0 | 0 | 1 | 1 |
| Peripheral venous line | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tracheal tube | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 |
| Tracheal cannula | 1 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 1 |
| Feeding tube (NG, ED) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Urethral catheter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chest drainage tube | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Abdominal drainage tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ventricular/cisternal drainage tube | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Subcutaneous continuous suction drainage tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Epidural catheter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Catheter/line for blood purification | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| Use/management of drainage tube or other tube, others | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 4 |

| | | Low | | | | Ţ | Jnknow | n | | | No | choice ^{(N} | (ote 1) | | = |
|---------------------|---------------|----------------------|------------------------|-------|---------------------|---------------|----------------------|------------------------|--------|---------------------|---------------|----------------------|------------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | Aggregate total |
| 4 | 3 | 4 | 4 | 15 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 26 |
| 3 | 6 | 4 | 4 | 17 | 0 | 3 | 3 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 33 |
| 5 | 2 | 4 | 1 | 12 | 2 | 0 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 18 |
| 0 | 1 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 5 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 1 | 3 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3 | 2 | 3 | 1 | 9 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 12 |
| 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | U | U | U | U | U | U | 0 | U | U | 0 | U | 0 | U | U | 43 |
| 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | 8 | 3 | 19 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 26 |
| | | 1 | | | | | т | | | T | | | | r | 84 |
| 2 | 0 | 3 | 0 | 5 | 4 | 0 | 1 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 16 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1 | 0 | 3 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2 | 3 | 1 | 1 | 7 | 0 | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 12 |
| 1 | 1 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 6 | 3 | 3 | 13 | 3 | 1 | 2 | 1 | 0 7 | 0 | 0 | 0 | 0 | 0 | 3 24 |
| 1 | O | 3 | 3 | 1.5 |) | 1 | 7 | 1 | / | U | U | U | U | U | 24 |

| | | | Death | | | | | High | | |
|--|---------------------|---------------|----------------------|------------------------|-------|---------------------|---------------|----------------------|------------------------|-------|
| | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Related to examination | | | | | | | | | | |
| Blood drawing | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| Sample collection, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| General imaging | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MRI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Angiocatheter-aided imaging | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| Lower gastrointestinal imaging | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Imaging, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Upper gastrointestinal | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 3 |
| Lower gastrointestinal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bronchoscopy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Endoscopic examination, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pathological examination | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Examination, others | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Related to nursing care | · | | , | | , | r | | c | | , |
| Endotracheal/oral suctioning | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Changing position | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| Bed bath | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Help with changing clothes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Help with eating | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 3 | 5 |
| Help with bathing | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| Help with elimination | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Help with moving | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 |
| Transportation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tending patient's belongings | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Meal serving | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Patient observation | 2 | 0 | 1 | 0 | 3 | 0 | 2 | 3 | 2 | 7 |
| Nursing care, others | 0 | 2 | 0 | 2 | 4 | 1 | 1 | 0 | 0 | 2 |
| Oral intake | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| While taking a walk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| While moving from one place to another | 0 | 2 | 1 | 3 | 6 | 5 | 3 | 5 | 2 | 15 |
| While going out/sleeping out | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| While eating | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| While bathing | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| While excreting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| While sleeping | 0 | 1 | 0 | 3 | 4 | 1 | 3 | 0 | 0 | 4 |
| Recuperation, others | 2 | 0 | 4 | 1 | 7 | 0 | 0 | 2 | 2 | 4 |
| Others | 6 | 7 | 11 | 6 | 30 | 4 | 10 | 3 | 4 | 21 |
| No choice ^(Note 1) | 12 | 7 | 7 | 3 | 29 | 1 | 1 | 5 | 3 | 10 |
| Total | 52 | 33 | 38 | 29 | 152 | 43 | 57 | 63 | 38 | 201 |

 $(Note\ 1) "No\ choice" means\ no\ "situation"\ or\ "potential\ of\ residual\ disability"\ was\ selected.$

| | | Low | | | | τ | J nknow | n | | | No | choice ^{(N} | ote 1) | | tal |
|---------------------|---------------|----------------------|------------------------|-------|---------------------|---------------|----------------------|------------------------|-------|---------------------|---------------|----------------------|------------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | Aggregate total |
| | | | | | | | | | | | | | | | 70 |
| 0 | 1 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 1 | 0 | 1 | 1 | 3 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 0 | 5 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 1 | 3 | 0 | 5 | 1 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1 | 1 | 3 | 1 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1 | 1 | 1 | 0 | 3 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | 2 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3 | 1 | 1 | 0 | 5 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 8 |
| | | 1 | , | r | 1 | | | | | T | r | ŋ | 1 | | 365 |
| 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 0 | 2 | 2 | 5 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 9 |
| 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1 | 1 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1 | 1 | 2 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 4 | 2 | 4 | 4 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 1 | 3 | 5 | 4 | 13 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 19 |
| 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 4 | 8 | 9 | 22 | 1 | 1 | 3 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 38 |
| 10 | 2 | 6 | 8 | 26 | 3 | 2 | 1 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 40 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1 | 0 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 20 | 14 | 17 | 18 | 69 | 4 | 2 | 3 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 102 |
| 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <u>3</u> |
| 1 | 1 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | 3 | 2 | 1 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 8 | 2 | 3 | 4 | 17 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 20 |
| 1 | 1 | 3 | 1 | 6 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 17 |
| 6 | 9 | 13 | 5 | 33 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 46 |
| 15 | 7 | 18 | 12 | 52 | 4 | 8 | 11 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 126 |
| 17 | 6 | 11 | 16 | 50 | 1 | 7 | 3 | 4 | 15 | 2 | 0 | 0 | 0 | 2 | 106 |
| 184 | 163 | 212 | 172 | 731 | 47 | 51 | 62 | 48 | 208 | 4 | 0 | 0 | 0 | 4 | 1,296 |

Fig. II-1-29 Place of Occurrence and Inpatient/Outpatient Status

| | | | Inpatient | t | | | (| Outpatier | nt | |
|---|------------------|---------------|-------------------|------------------------|-------|------------------|---------------|-------------------|------------------------|-------|
| Place of Occurrence × Inpatient/Outpatient Status | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Outpatient examination room | 0 | 1 | 0 | 0 | 1 | 2 | 9 | 10 | 13 | 34 |
| Outpatient treatment room | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 1 | 10 |
| Outpatient lobby | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Emergency room | 2 | 0 | 0 | 1 | 3 | 2 | 3 | 4 | 2 | 11 |
| Critical care center | 6 | 2 | 2 | 3 | 13 | 0 | 0 | 0 | 0 | 0 |
| Patient room | 129 | 123 | 151 | 118 | 521 | 0 | 0 | 1 | 0 | 1 |
| Ward treatment room | 4 | 5 | 5 | 4 | 18 | 0 | 0 | 0 | 0 | 0 |
| Operation room | 57 | 41 | 70 | 46 | 214 | 0 | 1 | 3 | 1 | 5 |
| ICU | 6 | 13 | 5 | 6 | 30 | 0 | 0 | 0 | 0 | 0 |
| CCU | 1 | 2 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 |
| NICU | 0 | 3 | 1 | 1 | 5 | 0 | 0 | 0 | 0 | 0 |
| Examination room | 4 | 5 | 6 | 1 | 16 | 1 | 1 | 2 | 2 | 6 |
| Catheterization laboratory | 7 | 14 | 10 | 9 | 40 | 1 | 0 | 2 | 0 | 3 |
| Radiotherapy room | 1 | 2 | 2 | 3 | 8 | 1 | 0 | 0 | 0 | 1 |
| Radiography room | 5 | 7 | 8 | 2 | 22 | 2 | 0 | 4 | 1 | 7 |
| Radioactive scanning room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Dialysis room | 4 | 3 | 1 | 3 | 11 | 0 | 0 | 0 | 0 | 0 |
| Delivery room | 1 | 1 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 |
| Rehabilitation room | 1 | 1 | 1 | 1 | 4 | 0 | 0 | 1 | 0 | 1 |
| Restroom | 5 | 8 | 5 | 7 | 25 | 0 | 0 | 0 | 1 | 1 |
| Hallway | 7 | 6 | 13 | 14 | 40 | 0 | 0 | 3 | 0 | 3 |
| Bathroom | 3 | 8 | 6 | 3 | 20 | 0 | 0 | 0 | 0 | 0 |
| Stairway | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 3 | 5 | 3 | 5 | 16 | 0 | 1 | 0 | 0 | 1 |
| Others | 26 | 29 | 37 | 28 | 120 | 8 | 6 | 10 | 8 | 32 |
| No choice ^(Note 1) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 272 | 280 | 330 | 258 | 1,140 | 20 | 24 | 45 | 29 | 118 |

(Note 1) "No choice" means no "place of occurrence" or "inpatient/outpatient status" was selected.

| | No | choice ^{(N} | ote 1) | | |
|------------------|---------------|----------------------|---------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | Total | Aggregate total |
| 0 | 0 | 0 | 0 | 0 | 35 |
| 0 | 0 | 0 | 0 | 0 | 12 |
| 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 14 |
| 0 | 0 | 0 | 0 | 0 | 13 |
| 19 | 0 | 0 | 0 | 19 | 541 |
| 0 | 0 | 0 | 0 | 0 | 18 |
| 4 | 0 | 0 | 0 | 4 | 223 |
| 0 | 0 | 0 | 0 | 0 | 30 |
| 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 4 5 22 |
| 0 | 0 | 0 | 0 | 0 | 22 |
| 1 | 0 | 0 | 0 | 1 | 44 |
| 0 | 0 | 0 | 0 | 0 | 44 9 |
| 1 | 0 | 0 | 0 | 1 | 30 |
| 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 11 |
| 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 5 |
| 3 | 0 | 0 | 0 | 3 | 29 |
| 1 | 0 | 0 | 0 | 1 | 44 |
| 1 | 0 | 0 | 0 | 1 | 21 |
| 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 0 | 0 | 0 | 0 | 17 |
| 8 | 0 | 0 | 0 | 8 | 160 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | 0 | 0 | 0 | 38 | 1,296 |

Fig. II-1-30 Summary of Event and Potential of Residual Disability

| | | | Death | | | | | High | | |
|---|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|
| Summary of Event × Potential of Residual Disability | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Ordering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug | 2 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 4 | 8 |
| Blood transfusion | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| Treatment/procedure | 24 | 10 | 6 | 6 | 46 | 20 | 27 | 36 | 13 | 96 |
| Medical equipment, etc. | 3 | 2 | 2 | 3 | 10 | 4 | 2 | 4 | 1 | 11 |
| Medical device | 1 | 0 | 0 | 2 | 3 | 2 | 2 | 1 | 0 | 5 |
| Drainage tube or other tube | 2 | 2 | 2 | 1 | 7 | 2 | 0 | 3 | 1 | 6 |
| Dental equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Examination/test | 2 | 1 | 3 | 0 | 6 | 1 | 2 | 1 | 1 | 5 |
| Nursing care | 5 | 5 | 7 | 9 | 26 | 6 | 13 | 15 | 12 | 46 |
| Others | 16 | 14 | 20 | 11 | 61 | 10 | 11 | 5 | 7 | 33 |
| No choice ^(Note 1) | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Total | 52 | 33 | 38 | 29 | 152 | 43 | 57 | 63 | 38 | 201 |

(Note 1) "No choice" means no "summary of event" or "potential of residual disability" was selected.

Fig. II-1-31 Place of Occurrence and Potential of Residual Disability

| | | | Death | | | | | High | | |
|---|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|
| Place of Occurrence × Potential of Residual Disability | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Outpatient examination room | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 4 |
| Outpatient treatment room | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 2 |
| Outpatient lobby | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Emergency room | 1 | 1 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 2 |
| Critical care center | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 1 |
| Patient room | 24 | 17 | 16 | 16 | 73 | 17 | 22 | 22 | 18 | 79 |
| Ward treatment room | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 2 |
| Operation room | 7 | 1 | 3 | 2 | 13 | 11 | 9 | 20 | 8 | 48 |
| ICU | 2 | 3 | 2 | 1 | 8 | 1 | 4 | 0 | 2 | 7 |
| CCU | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| NICU | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Examination room | 2 | 1 | 0 | 0 | 3 | 1 | 1 | 2 | 0 | 4 |
| Catheterization laboratory | 0 | 1 | 1 | 1 | 3 | 2 | 2 | 3 | 0 | 7 |
| Radiotherapy room | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Radiography room | 3 | 0 | 1 | 0 | 4 | 1 | 4 | 2 | 1 | 8 |
| Radioactive scanning room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dialysis room | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 |
| Delivery room | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 |
| Rehabilitation room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Restroom | 2 | 2 | 1 | 0 | 5 | 0 | 2 | 0 | 0 | 2 |
| Hallway | 0 | 0 | 2 | 2 | 4 | 1 | 2 | 1 | 2 | 6 |
| Bathroom | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 0 | 2 |
| Stairway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Others | 7 | 3 | 10 | 4 | 24 | 5 | 4 | 6 | 4 | 19 |
| No choice ^(Note 1) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 52 | 33 | 38 | 29 | 152 | 43 | 57 | 63 | 38 | 201 |

(Note 1) "No choice" means no "place of occurrence" or "potential of residual disability" was selected.

| | | Low | | | | U | Inknow | n | | | No | choice ^{(N} | lote 1) | | |
|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|----------------------|---------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | Aggregate total |
| 1 | 5 | 6 | 7 | 19 | 1 | 4 | 1 | 5 | 11 | 0 | 0 | 0 | 0 | 0 | 35 |
| 1 | 3 | 4 | 0 | 8 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3 | 1 | 3 | 3 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 4 | 1 | 0 | 3 | 8 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 13 |
| 84 | 62 | 88 | 68 | 302 | 23 | 22 | 26 | 16 | 87 | 0 | 0 | 0 | 0 | 0 | 541 |
| 2 | 4 | 3 | 3 | 12 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 18 |
| 34 | 25 | 39 | 28 | 126 | 8 | 7 | 11 | 9 | 35 | 1 | 0 | 0 | 0 | 1 | 223 |
| 3 | 6 | 2 | 3 | 14 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 30 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 2 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2 | 2 | 5 | 2 | 11 | 0 | 2 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 22 |
| 6 | 10 | 5 | 6 | 27 | 0 | 1 | 3 | 2 | 6 | 1 | 0 | 0 | 0 | 1 | 44 |
| 0 | 1 | 2 | 2 | 5 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 9 |
| 2 | 1 | 5 | 1 | 9 | 2 | 2 | 4 | 1 | 9 | 0 | 0 | 0 | 0 | 0 | 30 |
| 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2 | 2 | 0 | 3 | 7 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1 | 1 | 2 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5 | 4 | 4 | 7 | 20 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 29 |
| 6 | 4 | 12 | 9 | 31 | 1 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 44 |
| 3 | 6 | 6 | 1 | 16 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 21 |
| 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 3 | 1 | 3 | 5 | 12 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 17 |
| 20 | 20 | 20 | 19 | 79 | 9 | 8 | 11 | 9 | 37 | 1 | 0 | 0 | 0 | 1 | 160 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 184 | 163 | 212 | 172 | 731 | 47 | 51 | 62 | 48 | 208 | 4 | 0 | 0 | 0 | 4 | 1,296 |

Fig. II-1-32 Details of Event and Potential of Residual Disability

| | | | Death | | | | | High | | |
|--|---------------------|---------------|----------------------|------------------------|--------------|---------------------|---------------|----------------------|------------------------|-------|
| | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Related to drug | | | | | | | | | | |
| Dose error | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overdose | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 2 |
| Dosing speed too fast | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Patient misidentification | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug mix-up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Wrong dosing method | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug prescription/administration, others | 1 | 1 | 0 | 0 | 2 | 2 | 3 | 1 | 1 | 7 |
| Dispensing error (wrong dose/number) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dispensing/drug management, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug/blood product management, others | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| Related to blood transfusion | 1 | | | | [<u>:</u> | | | [| | |
| Cross-match error | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Error in documentation/recording of results | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transfusion testing, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irradiation of blood products, blood transfusion, others | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| Related to treatment/procedure | , | | , | | T | | | ,, | | |
| Patient misidentification | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong site treatment/procedure | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| Wrong examination/treatment/ procedure, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong method (technique) | 2 | 1 | 0 | 0 | 3 | 1 | 3 | 3 | 2 | 9 |
| Neglected/forgotten treatment/procedure | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unnecessary treatment/procedure | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong patient position | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong examination/treatment, others | 3 | 0 | 0 | 1 | 4 | 1 | 4 | 1 | 0 | 6 |
| Aspiration | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Retained foreign object | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Treatment/procedure, others | 13 | 7 | 8 | 3 | 31 | 15 | 15 | 23 | 8 | 61 |
| Jse/management of medical equipment (devic | e) | | 1 | | _T | | | | | |
| Assembly | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Forgot to set up/turn on power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Malfunction | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Lack of knowledge | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forgot to set alarm | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Range of alarm setup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Neglect in inspection/management before or during device operation | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Error in sterilization/cleaning technique | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Breakage | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Use/management of medical equipment (device), others | 2 | 0 | 0 | 2 | 4 | 1 | 1 | 1 | 1 | 4 |

| | | Low | | | | ι | nknow | n | | | No | choice ^{(N} | lote 1) | | |
|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|----------------------|---------------------|--------------|-----------------|
| January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | Aggregate total |
| | | | | | | | | | | | | | | | 92 |
| 1 | 1 | 1 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3 | 4 | 1 | 5 | 13 | 2 | 2 | 2 | 3 | 9 | 0 | 0 | 0 | 0 | 0 | 25 |
| 0 | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 |
| 3 | 2 | 1 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 3 | 1 | 0 | 1 | 5 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 4 | 3 | 8 | 16 | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 28 |
| 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 2 | 2 | 0 | 4 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1 | 1 | 1 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| | | 1 | т | ۲ | | , | , , | | 1 | 1 | r | | 1 | _T | 7 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| | | 1 | T | r | | | | | | 1 | r | r | 1 | 1 | 402 |
| 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2 | 2 | 3 | 3 | 10 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 14 |
| 0 | 1 | 2 | 0 | 3 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| 9 | 3 | 16 | 6 | 34 | 1 | 0 | 2 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 51 |
| 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2 | 6 | 4 | 5 | 17 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 29 |
| 2 | 1 | 1 | 0 | 4 | 1 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 8 |
| 10 | 9 | 5 | 11 | 35 | 0 | 2 | 7 | 2 | 11 | 0 | 0 | 0 | 0 | 0 | 47 |
| 26 | 28 | 33 | 24 | 111 | 4 | 8 | 8 | 12 | 32 | 2 | 0 | 0 | 0 | 2 | 237 |
| | |] | I | [| | | | | | | · · · · · · | Γ |] ^ | I | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 2 | 4 | 8 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 6 | 5 | 3 | 1 | 15 | 3 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 28 |

| | | | Death | | | | | High | | |
|--|---------------------|---------------|----------------------|------------------------|--------|---------------------|---------------|----------------------|------------------------|-------|
| | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Related to use/management of drainage tube of | r other | tube | | | | | | | | |
| Infusion leakage | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Self-removal | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Spontaneous dislodgment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Disconnection | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 |
| Blockage | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| Breakage/severance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong connection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Air bubble in tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Use/management of drainage tube or other tube, others | 1 | 2 | 0 | 2 | 5 | 1 | 2 | 3 | 1 | 7 |
| Related to examination | | , | , | , | T | | | , | | |
| Patient misidentification | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong examination/evaluation technique | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| Error in sample collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Sample misidentification | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lost sample | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sample contamination | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Management of analytical device/ equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Preparation of examination device/ equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Result reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Examination, others | 1 | 1 | 1 | 0 | 3 | 1 | 0 | 4 | 0 | 5 |
| Related to nursing care | | , | , , | , | r | | | | | |
| Fall | 1 | 2 | 2 | 3 | 8 | 6 | 6 | 5 | 7 | 24 |
| Fall from bed | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 2 | 0 | 3 |
| Collision | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Restraint | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Severe decubitus (involving muscle layer, Stage III/IV) | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 |
| Aspiration | 2 | 0 | 1 | 1 | 4 | 0 | 1 | 3 | 5 | 9 |
| Accidental ingestion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nursing care/recuperation, others | 2 | 2 | 3 | 6 | 13 | 3 | 5 | 4 | 2 | 14 |
| Transportation, others | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| Going out/staying out without notice Self medication, others | 0 | 0 | 0 | 1 | 1 1 | 0 | 0 | 0 | 0 | 0 |
| Meal/nutrition, others | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Others | 6 | 7 | 11 | 6 | 30 | 4 | 10 | 3 | 4 | 21 |
| No choice ^(Note 1) | 13 | 7 | 7 | 3 | 30 | 1 | 1 | 5 | 3 | 10 |
| Total | 52 | 33 | 38 | 29 | 152 | 43 | 57 | 63 | 38 | 201 |

(Note 1) "No choice" means no "details of event" or "potential of residual disability" was selected.

| Total Tota | 84 3 14 3 8 3 10 3 0 40 |
|--|-----------------------------------|
| 2 4 0 1 7 4 1 0 1 6 0 | 3 14 3 8 3 10 3 |
| 2 4 0 1 7 4 1 0 1 6 0 | 14 3 8 3 10 3 |
| 0 0 2 0 2 1 0 0 0 1 0 | 3 8 3 10 3 |
| 2 0 1 1 4 0 0 1 0 1 0 | 8 3 10 3 0 |
| 0 0 0 0 0 0 1 0 1 0 | 3 10 3 0 |
| 2 1 0 1 4 3 1 2 0 6 0 0 0 0 0 1 1 1 0 3 0 | 10 3 0 |
| 1 1 1 0 3 0 | 3 |
| 0 | 0 |
| 3 7 7 2 19 3 2 2 2 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 | 40 |
| · | _ |
| · | 69 |
| | 0 |
| · | 9 |
| | 1 |
| | 1 |
| | 3 |
| | 0 |
| | 0 |
| | 0 |
| | 3 |
| 6 10 16 2 34 2 3 1 4 10 0 0 0 0 0 | 52 |
| | 371 |
| 40 27 37 34 138 4 3 4 7 18 0 0 0 0 0 | 188 |
| 4 3 4 3 14 1 1 1 0 3 0 0 0 0 0 | 22 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 4 1 |
| $egin{array}{ c c c c c c c c c c c c c c c c c c c$ | 27 |
| | 20 |
| | 20 2 |
| 10 9 14 15 48 1 2 4 4 11 0 0 0 0 0 | 86 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7 |
| | 3 |
| | 8 |
| | 3 |
| 12 7 18 11 48 3 6 11 0 20 0 0 0 0 0 0 | 119 |
| 11 6 11 16 44 2 7 3 4 16 2 0 0 0 2 | 102 |
| 11 0 11 10 44 2 7 3 4 10 2 0 0 0 0 2 184 163 212 172 731 47 51 62 48 208 4 0 0 0 4 | 102 |

Fig. II-1-33 Place of Occurrence and Summary of Event

| | | O | rderi | ng | | | | Drug | <u></u> | | В | lood | trans | sfusio | n | | | eatme ocedu | | | | edica Medi | etc. | | |
|---|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|
| Place of occurrence × summary of event | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total |
| Outpatient examination room | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 10 | 22 | 1 | 1 | 0 | 0 | 2 |
| Outpatient treatment room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 2 | 9 | 0 | 0 | 0 | 0 | 0 |
| Outpatient lobby | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Emergency room | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| Critical care center | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 1 | 5 | 0 | 0 | 0 | 0 | 0 |
| Patient room | 5 | 0 | 0 | 2 | 7 | 10 | 9 | 13 | 8 | 40 | 1 | 1 | 0 | 0 | 2 | 25 | 25 | 25 | 12 | 87 | 3 | 1 | 1 | 2 | 7 |
| Ward treatment room | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 2 | 8 | 0 | 1 | 0 | 0 | 1 |
| Operation room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 | 0 | 1 | 0 | 1 | 2 | 43 | 35 | 60 | 40 | 178 | 6 | 1 | 8 | 3 | 18 |
| ICU | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 2 | 1 | 11 | 1 | 0 | 0 | 1 | 2 |
| CCU | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| NICU | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 |
| Examination room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 2 | 1 | 10 | 0 | 0 | 0 | 0 | 0 |
| Catheterization laboratory | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 7 | 5 | 28 | 1 | 0 | 0 | 1 | 2 |
| Radiotherapy room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 2 | 7 | 0 | 0 | 0 | 0 | 0 |
| Radiography room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 7 | 2 | 14 | 0 | 1 | 0 | 0 | 1 |
| Radioactive scanning room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Dialysis room | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 0 |
| Delivery room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 0 |
| Rehabilitation room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Restroom | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Hallway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Bathroom | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Stairway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 5 | 2 | 16 | 0 | 2 | 0 | 0 | 2 | 10 | 10 | 12 | 9 | 41 | 1 | 2 | 1 | 1 | 5 |
| No choice(Note 1) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 5 | 2 | 0 | 6 | 13 | 15 | 23 | 21 | 18 | 77 | 2 | 4 | 0 | 1 | 7 | 112 | 108 | 137 | 93 | 450 | 13 | 7 | 10 | 8 | 38 |

(Note 1) "No choice" means no "place of occurrence" or "summary of event" was selected.

[4] Details of Reports from Medical Institutions Subject to Reporting Requirement (by Month of Occurrence)

The quarterly tabulation of reports on medical adverse events occurred in 2006 made by medical institutions subject to reporting requirement between January 1 2006 and March 31 2007, 2006 is shown by month of occurrence below.

Fig. II-1-34 Month of Occurrence

| Month | of occurrence | Number of events |
|-------|-------------------------------|------------------|
| | January | 97 |
| | February | 118 |
| | March | 92 |
| | April | 108 |
| | May | 98 |
| | June | 123 |
| 2006 | July | 122 |
| | August | 132 |
| | September | 113 |
| | October | 86 |
| | November | 90 |
| | December | 83 |
| | No choice ^(Note 1) | 1 |
| | Total | 1,263 |

(Note 1) "No choice" means no "month of occurrence" was selected.

Fig. II-1-35 Day of Occurrence and Weekday/Holiday Category

| | | | We | ekday | | | | | Holi | iday | | | | N | lo choi | ice ^{(Note} | 1) | | |
|-------------------|------------------|---------------|-------------------|---------------------|-----------|-------|------------------|---------------|-------------------|---------------------|-----------|-------|------------------|---------------|-------------------|----------------------|-----------|-------|-----------------|
| Day of occurrence | January to March | April to June | July to September | October to December | No choice | Total | January to March | April to June | July to September | October to December | No choice | Total | January to March | April to June | July to September | October to December | No choice | Total | Aggregate total |
| Mon. | 34 | 60 | 42 | 53 | 0 | 189 | 4 | 0 | 4 | 2 | 0 | 10 | 1 | 0 | 0 | 0 | 0 | 1 | 200 |
| Tue. | 60 | 65 | 75 | 47 | 0 | 247 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 249 |
| Wed. | 47 | 44 | 55 | 40 | 0 | 186 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 188 |
| Thu. | 60 | 55 | 59 | 38 | 0 | 212 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 212 |
| Fri. | 59 | 45 | 59 | 46 | 0 | 209 | 0 | 2 | 1 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 214 |
| Sat. | 8 | 9 | 6 | 5 | 0 | 28 | 11 | 21 | 28 | 17 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 105 |
| Sun. | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 26 | 38 | 10 | 0 | 91 | 1 | 0 | 0 | 0 | 0 | 1 | 92 |
| No choice (Note 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 3 |
| Total | 269 | 278 | 296 | 229 | 0 | 1,072 | 33 | 51 | 71 | 30 | 0 | 185 | 5 | 0 | 0 | 0 | 1 | 6 | 1,263 |

(Note 1) "No choice" means no "day of occurrence" or "weekday/holiday category" was selected.

Fig. II-1-36 Time of Occurrence

| | | | Number | of events | | |
|----------------------|---------------------|------------------|----------------------|------------------------|-----------|-----------------|
| Time of occurrence | January to March | April to June | July to September | October to December | No choice | Aggregate total |
| 0:00 – before 2:00 | 16 | 15 | 9 | 11 | 0 | 51 |
| 2:00 – before 4:00 | 7 | 11 | 8 | 10 | 0 | 36 |
| 4:00 – before 6:00 | 16 | 15 | 10 | 6 | 0 | 47 |
| 6:00 – before 8:00 | 17 | 17 | 21 | 19 | 0 | 74 |
| 8:00 – before 10:00 | 28 | 30 | 28 | 18 | 0 | 104 |
| 10:00 – before 12:00 | 52 | 56 | 67 | 41 | 0 | 216 |
| 12:00 – before 14:00 | 30 | 31 | 39 | 39 | 0 | 139 |
| 14:00 – before 16:00 | 47 | 60 | 60 | 34 | 0 | 201 |
| 16:00 – before 18:00 | 37 | 36 | 40 | 30 | 0 | 143 |
| 18:00 – before 20:00 | 17 | 21 | 33 | 13 | 0 | 84 |
| 20:00 – before 22:00 | 13 | 16 | 18 | 18 | 0 | 65 |
| 22:00 – before 24:00 | 11 | 4 | 16 | 8 | 0 | 39 |
| Time unknown | 13 | 17 | 18 | 12 | 0 | 60 |
| No choice(Note 1) | 3 | 0 | 0 | 0 | 1 | 4 |
| Total | 307 | 329 | 367 | 259 | 1 | 1,263 |

(Note 1) "No choice" means no "time of occurrence" was selected.

Fig. II-1-37 Patient Age

| | | | | Number | of events | | | | | Inpa | tient | | |
|--------------------------|--------------------------|---------------------|---------------|----------------------|------------------------|-----------|-------|---------------------|------------------|----------------------|------------------------|-----------|-------|
| Number of patients | Patient age | January to March | April to June | July to September | October to December | No choice | Total | January to March | April to June | July to September | October to December | No choice | Total |
| | 0 to 9 | 9 | 17 | 15 | 18 | 0 | 59 | 8 | 15 | 15 | 16 | 0 | 54 |
| | 10s | 7 | 10 | 11 | 5 | 0 | 33 | 7 | 9 | 7 | 5 | 0 | 28 |
| | 20s | 8 | 15 | 20 | 11 | 0 | 54 | 6 | 14 | 17 | 10 | 0 | 47 |
| | 30s | 14 | 17 | 19 | 15 | 0 | 65 | 11 | 15 | 18 | 12 | 0 | 56 |
| | 40s | 18 | 24 | 37 | 16 | 0 | 95 | 17 | 22 | 29 | 14 | 0 | 82 |
| 1 patient | 50s | 36 | 47 | 48 | 36 | 0 | 167 | 30 | 42 | 41 | 35 | 0 | 148 |
| | 60s | 54 | 65 | 63 | 48 | 0 | 230 | 53 | 57 | 58 | 43 | 0 | 211 |
| | 70s | 70 | 85 | 91 | 60 | 0 | 306 | 67 | 77 | 84 | 57 | 0 | 285 |
| | 80s | 40 | 40 | 53 | 44 | 0 | 177 | 33 | 38 | 48 | 41 | 0 | 160 |
| | 90 or above | 6 | 5 | 5 | 5 | 0 | 21 | 6 | 5 | 4 | 5 | 0 | 20 |
| | Total | 262 | 325 | 362 | 258 | 0 | 1,207 | 238 | 294 | 321 | 238 | 0 | 1,091 |
| 2 patients or more | Total | 6 | 4 | 5 | 1 | 1 | 17 | 4 | 3 | 4 | 0 | 0 | 11 |
| No cho | oice ^(Note 1) | 39 | 0 | 0 | 0 | 0 | 39 | 19 | 0 | 0 | 0 | 0 | 19 |
| | gate total | 307 | 329 | 367 | 259 | 1 | 1,263 | 261 | 297 | 325 | 238 | 0 | 1,121 |

(Note 1) "No choice" means no "patient age" was selected.

Fig. II-1-38 Sex of Patients

| | | | | Number | of events | | |
|--------------------|-------------------|---------------------|------------------|----------------------|------------------------|-----------------------|-------|
| Number of patients | Sex | January to March | April to June | July to September | October to December | No choice (Note 1) | Total |
| | Male | 146 | 163 | 175 | 136 | 0 | 620 |
| 1 mations | Female | 109 | 162 | 187 | 122 | 0 | 580 |
| 1 patient | No choice(Note 1) | 7 | 0 | 0 | 0 | 0 | 7 |
| | Total | 262 | 325 | 362 | 258 | 0 | 1207 |
| 2 patients or more | Total | 6 | 4 | 5 | 1 | 1 | 17 |
| No choice (Note 1) | | 39 | 0 | 0 | 0 | 0 | 39 |
| Aggregate total | | 307 | 329 | 367 | 259 | 1 | 1,263 |

(Note 1) "No choice" means no "sex of patient" was selected.

Fig. II-1-39 Inpatient/Outpatient Status and Duration of Hospital Stay

| | | | | Number | of events | | |
|------------|-----------------------------|---------------------|------------------|----------------------|---------------------------|-----------------------|-------|
| Inpa | ntient/outpatient status | January to March | April to June | July to September | October to December | No choice (Note 1) | Total |
| | Duration: 0 to 31 days | 188 | 207 | 218 | 150 | 0 | 763 |
| Innations | Duration: 32 days or longer | 65 | 81 | 103 | 80 | 0 | 329 |
| Inpatient | No choice(Note 1) | 8 | 9 | 4 | 8 | 0 | 29 |
| | Total | 261 | 297 | 325 | 238 | 0 | 1,121 |
| | Initial visit | 4 | 1 | 4 | 0 | 0 | 9 |
| Outpatient | Follow-up visit | 15 | 31 | 38 | 21 | 1 | 106 |
| | Total | 19 | 32 | 42 | 21 | 1 | 115 |
| | No choice(Note 1) | 27 | 0 | 0 | 0 | 0 | 27 |
| | Aggregate total | 307 | 329 | 367 | 259 | 1 | 1,263 |

(Note 1) "No choice" means no "inpatient/outpatient status" or "duration of hospitalization" was selected.

Fig. II-1-40 Person Who Identified Event

| | | | Number | of events | | |
|-----------------------------|---------------------|------------------|----------------------|------------------------|-----------------------|-------|
| Person who identified event | January to March | April to June | July to September | October to December | No choice (Note 1) | Total |
| Medical staff | 263 | 282 | 306 | 221 | 1 | 1,073 |
| Patient himself/herself | 10 | 6 | 21 | 13 | 0 | 50 |
| Patient's family/caregiver | 6 | 9 | 6 | 8 | 0 | 29 |
| Other patient | 9 | 8 | 14 | 3 | 0 | 34 |
| Others | 14 | 24 | 19 | 14 | 0 | 71 |
| No choice(Note 1) | 5 | 0 | 1 | 0 | 0 | 6 |
| Total | 307 | 329 | 367 | 259 | 1 | 1,263 |

(Note 1) "No choice" means no "person who identified event" was selected.

Fig. II-1-41 Job Title of Person Involved

| Tab d'alon Common | | | Number | of events | | |
|---|---------------------|------------------|----------------------|------------------------|-----------------------|-------|
| Job title of person involved ^(Note 1) | January to March | April to June | July to September | October to December | No choice (Note 2) | Total |
| Doctor | 270 | 266 | 261 | 187 | 1 | 985 |
| Dentist | 17 | 13 | 2 | 7 | 0 | 39 |
| Nurse | 168 | 170 | 170 | 174 | 0 | 682 |
| Assistant nurse | 6 | 8 | 13 | 5 | 0 | 32 |
| Pharmacist | 1 | 4 | 5 | 0 | 0 | 10 |
| Clinical engineer | 1 | 1 | 3 | 0 | 0 | 5 |
| Midwife | 1 | 0 | 0 | 1 | 0 | 2 |
| Nursing assistant | 2 | 3 | 0 | 2 | 0 | 7 |
| Radiological technologist | 3 | 1 | 7 | 3 | 0 | 14 |
| Clinical technologist | 2 | 1 | 4 | 0 | 0 | 7 |
| Physical therapist (PT) | 1 | 1 | 1 | 1 | 0 | 4 |
| Occupational therapist (OT) | 0 | 0 | 2 | 0 | 0 | 2 |
| Medical technologist | 0 | 0 | 0 | 0 | 0 | 0 |
| Dental hygienist | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 15 | 14 | 36 | 19 | 0 | 84 |
| No choice ^(Note 2) | 13 | 0 | 1 | 0 | 0 | 14 |
| Total | 500 | 482 | 505 | 399 | 1 | 1,887 |

(Note 1) Person involved is a person determined by the medical institution to have been involved in the event occurred; more than 1 person may have been involved.

(Note 2) "No choice" means no "job title of person involved" was selected.

Fig. II-1-42 Summary of Event

| Summary of event | Januar Mar | • | April to | June | July Septen | | Octobe Decem | | No choic | ee (Note 1) | Tot | al |
|-----------------------------|---------------|------|----------|------|----------------|------|-----------------|------|----------|-------------|--------|------|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Ordering | 3 | 1.0 | 2 | 0.6 | 5 | 1.4 | 1 | 0.4 | 0 | 0.0 | 11 | 0.9 |
| Drug | 14 | 4.6 | 22 | 6.7 | 22 | 6.0 | 13 | 5.0 | 1 | 100.0 | 72 | 5.7 |
| Blood transfusion | 2 | 0.7 | 3 | 0.9 | 0 | 0.0 | 3 | 1.2 | 0 | 0.0 | 8 | 0.6 |
| Treatment/procedure | 101 | 32.9 | 121 | 36.8 | 127 | 34.6 | 80 | 30.9 | 0 | 0.0 | 429 | 34.0 |
| Medical equipment, etc. | 40 | 13.0 | 19 | 5.8 | 26 | 7.1 | 25 | 9.7 | 0 | 0.0 | 110 | 8.7 |
| Medical device | 14 | 4.6 | 5 | 1.5 | 9 | 2.5 | 8 | 3.1 | 0 | 0.0 | 36 | 2.9 |
| Drainage tube or other tube | 24 | 7.8 | 13 | 4.0 | 17 | 4.6 | 16 | 6.2 | 0 | 0.0 | 70 | 5.5 |
| Dental equipment | 2 | 0.7 | 1 | 0.3 | 0 | 0.0 | 1 | 0.4 | 0 | 0.0 | 4 | 0.3 |
| Examination/test | 17 | 5.5 | 26 | 7.9 | 20 | 5.4 | 12 | 4.6 | 0 | 0.0 | 75 | 5.9 |
| Nursing care | 70 | 22.8 | 82 | 24.9 | 103 | 28.1 | 83 | 32.0 | 0 | 0.0 | 338 | 26.8 |
| Others | 60 | 19.5 | 54 | 16.4 | 64 | 17.4 | 42 | 16.2 | 0 | 0.0 | 220 | 17.4 |
| Total | 307 | 100 | 329 | 100 | 367 | 100 | 259 | 100 | 1 | 100 | 1,263 | 100 |

(Note 1) "No choice" means no "summary of event" was selected.

Fig. II-1-43 Potential of Residual Disability

| Potential of residual disability ^(Note 1) | January to March Apri | | April to | April to June | | July to September | | October to December | | e (Note 3) | Total | |
|--|-----------------------|------|----------|---------------|--------|----------------------|--------|------------------------|--------|------------|--------|------|
| uisability | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Death | 44 | 14.3 | 38 | 11.6 | 32 | 8.7 | 29 | 11.2 | 0 | 0.0 | 143 | 11.3 |
| High | 45 | 14.7 | 54 | 16.4 | 56 | 15.3 | 44 | 17.0 | 0 | 0.0 | 199 | 15.8 |
| Low | 161 | 52.4 | 186 | 56.5 | 212 | 57.8 | 149 | 57.5 | 0 | 0.0 | 708 | 56.1 |
| Unknown ^(Note 2) | 55 | 17.9 | 51 | 15.5 | 67 | 18.3 | 37 | 14.3 | 1 | 100.0 | 211 | 16.7 |
| No choice ^(Note 3) | 2 | 0.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 0.2 |
| Total | 307 | 100 | 329 | 100 | 367 | 100 | 259 | 100 | 1 | 100 | 1,263 | 100 |

(Note 1) "Potential of residual disability" is not necessarily associated with occurrence of event or negligence.

(Note 2) "Unknown" includes indefinite outcome at the time of reporting (within 2 weeks) and events of warning that did not affect patients' conditions in any way.

(Note 3) "No choice" means no "potential of residual disability" was selected.

Fig. II-1-44 Place of Occurrence

| Place of Occurrence | Janua Mar | | April to | June | July Septer | | Octobe Decem | | No choice | (Note 1) | Tota | al |
|-----------------------------|--------------|------|----------|------|----------------|------|-----------------|------|-----------|----------|--------|------|
| | Numbei | % | Number | % | Numbei | % | Number | % | Number | % | Numbei | % |
| Outpatient examination room | 5 | 1.6 | 15 | 4.6 | 7 | 1.9 | 9 | 3.5 | 0 | 0 | 36 | 2.9 |
| Outpatient treatment room | 2 | 0.7 | 2 | 0.6 | 4 | 1.1 | 2 | 0.8 | 0 | 0 | 10 | 0.8 |
| Outpatient lobby | 1 | 0.3 | 0 | 0.0 | 2 | 0.5 | 0 | 0.0 | 0 | 0 | 3 | 0.2 |
| Emergency room | 4 | 1.3 | 1 | 0.3 | 7 | 1.9 | 0 | 0.0 | 0 | 0 | 12 | 1.0 |
| Critical care center | 4 | 1.3 | 2 | 0.6 | 3 | 0.8 | 1 | 0.4 | 0 | 0 | 10 | 0.8 |
| Patient room | 135 | 44.0 | 128 | 38.9 | 162 | 44.1 | 106 | 40.9 | 0 | 0 | 531 | 42.0 |
| Ward treatment room | 4 | 1.3 | 4 | 1.2 | 5 | 1.4 | 2 | 0.8 | 0 | 0 | 15 | 1.2 |
| Operation room | 59 | 19.2 | 56 | 17.0 | 61 | 16.6 | 49 | 18.9 | 0 | 0 | 225 | 17.8 |
| ICU | 8 | 2.6 | 13 | 4.0 | 4 | 1.1 | 6 | 2.3 | 0 | 0 | 31 | 2.5 |
| CCU | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.4 | 0 | 0 | 1 | 0.1 |
| NICU | 0 | 0.0 | 4 | 1.2 | 1 | 0.3 | 0 | 0.0 | 0 | 0 | 5 | 0.4 |
| Examination room | 5 | 1.6 | 7 | 2.1 | 9 | 2.5 | 7 | 2.7 | 0 | 0 | 28 | 2.2 |
| Catheterization laboratory | 7 | 2.3 | 15 | 4.6 | 7 | 1.9 | 6 | 2.3 | 0 | 0 | 35 | 2.8 |
| Radiotherapy room | 1 | 0.3 | 3 | 0.9 | 1 | 0.3 | 3 | 1.2 | 0 | 0 | 8 | 0.6 |
| Radiography room | 6 | 2.0 | 8 | 2.4 | 9 | 2.5 | 3 | 1.2 | 0 | 0 | 26 | 2.1 |
| Radioactive scanning room | 0 | 0.0 | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 0 | 0 | 1 | 0.1 |
| Dialysis room | 3 | 1.0 | 3 | 0.9 | 2 | 0.5 | 2 | 0.8 | 0 | 0 | 10 | 0.8 |
| Delivery room | 1 | 0.3 | 1 | 0.3 | 2 | 0.5 | 0 | 0.0 | 0 | 0 | 4 | 0.3 |
| Rehabilitation room | 1 | 0.3 | 1 | 0.3 | 2 | 0.5 | 1 | 0.4 | 0 | 0 | 5 | 0.4 |
| Restroom | 6 | 2.0 | 6 | 1.8 | 8 | 2.2 | 7 | 2.7 | 0 | 0 | 27 | 2.1 |
| Hallway | 6 | 2.0 | 10 | 3.0 | 18 | 4.9 | 9 | 3.5 | 0 | 0 | 43 | 3.4 |
| Bathroom | 4 | 1.3 | 12 | 3.6 | 3 | 0.8 | 4 | 1.5 | 0 | 0 | 23 | 1.8 |
| Stairway | 0 | 0.0 | 1 | 0.3 | 2 | 0.5 | 0 | 0.0 | 0 | 0 | 3 | 0.2 |
| Unknown | 5 | 1.6 | 4 | 1.2 | 4 | 1.1 | 7 | 2.7 | 0 | 0 | 20 | 1.6 |
| Others | 31 | 10.1 | 20 | 6.1 | 35 | 9.5 | 28 | 10.8 | 1 | 100 | 115 | 9.1 |
| No choice(Note 1) | 9 | 2.9 | 13 | 4.0 | 8 | 2.2 | 6 | 2.3 | 0 | 0 | 36 | 2.9 |
| Total | 307 | 100 | 329 | 100 | 367 | 100 | 259 | 100 | 1 | 100 | 1,263 | 100 |

(Note 1) "No choice" means no "place of occurrence" was selected.

Fig. II-1-45 Factor of Event

| Cause of Event (Note 1) | Januar Mar | | April Jun | | July Septer | | Octobe Decem | | No choic | ee (Note 2) | Tota | al |
|--|---------------|------|--------------|------|----------------|------|-----------------|------|----------|-------------|--------|------|
| | Numbei | % | Number | % | Numbe | % | Number | % | Numbe | % | Number | % |
| Neglect to check | 82 | 14.7 | 93 | 15.6 | 95 | 14.4 | 71 | 15.3 | 1 | 33.3 | 342 | 15.0 |
| Neglect to observe | 75 | 13.5 | 72 | 12.1 | 88 | 13.3 | 64 | 13.8 | 0 | 0.0 | 299 | 13.1 |
| Misjudgment | 80 | 14.4 | 71 | 11.9 | 83 | 12.6 | 68 | 14.6 | 0 | 0.0 | 302 | 13.2 |
| Lack of knowledge | 24 | 4.3 | 28 | 4.7 | 26 | 3.9 | 12 | 2.6 | 1 | 33.3 | 91 | 4.0 |
| Deficiency of technique/skill | 22 | 4.0 | 35 | 5.9 | 32 | 4.8 | 17 | 3.7 | 0 | 0.0 | 106 | 4.6 |
| Delayed reporting | 5 | 0.9 | 8 | 1.3 | 10 | 1.5 | 7 | 1.5 | 0 | 0.0 | 30 | 1.3 |
| Under unusual physical condition | 15 | 2.7 | 12 | 2.0 | 16 | 2.4 | 9 | 1.9 | 0 | 0.0 | 52 | 2.3 |
| Under unusual psychological condition | 10 | 1.8 | 5 | 0.8 | 7 | 1.1 | 5 | 1.1 | 0 | 0.0 | 27 | 1.2 |
| System failure | 12 | 2.2 | 17 | 2.8 | 9 | 1.4 | 10 | 2.2 | 0 | 0.0 | 48 | 2.1 |
| Inadequate coordination | 28 | 5.0 | 36 | 6.0 | 39 | 5.9 | 28 | 6.0 | 0 | 0.0 | 131 | 5.7 |
| Inadequate documentation | 7 | 1.3 | 7 | 1.2 | 13 | 2.0 | 6 | 1.3 | 0 | 0.0 | 33 | 1.4 |
| Similarity in patient's appearance or name | 0 | 0.0 | 1 | 0.2 | 0 | 0.0 | 1 | 0.2 | 0 | 0.0 | 2 | 0.1 |
| Busy working condition | 16 | 2.9 | 16 | 2.7 | 16 | 2.4 | 13 | 2.8 | 0 | 0.0 | 61 | 2.7 |
| Problem in environment | 17 | 3.1 | 13 | 2.2 | 15 | 2.3 | 14 | 3.0 | 0 | 0.0 | 59 | 2.6 |
| Problem in the drug | 1 | 0.2 | 2 | 0.3 | 5 | 0.8 | 4 | 0.9 | 0 | 0.0 | 12 | 0.5 |
| Problem in medical device | 13 | 2.3 | 4 | 0.7 | 13 | 2.0 | 8 | 1.7 | 0 | 0.0 | 38 | 1.7 |
| Problem in other items | 4 | 0.7 | 7 | 1.2 | 8 | 1.2 | 6 | 1.3 | 0 | 0.0 | 25 | 1.1 |
| Problem in facility | 15 | 2.7 | 15 | 2.5 | 13 | 2.0 | 5 | 1.1 | 0 | 0.0 | 48 | 2.1 |
| Problem in education/training | 20 | 3.6 | 25 | 4.2 | 17 | 2.6 | 16 | 3.4 | 1 | 33.3 | 79 | 3.5 |
| Lack of explanation | 24 | 4.3 | 39 | 6.5 | 27 | 4.1 | 26 | 5.6 | 0 | 0.0 | 116 | 5.1 |
| Others | 77 | 13.8 | 91 | 15.2 | 128 | 19.4 | 75 | 16.1 | 0 | 0.0 | 371 | 16.3 |
| No choice ^(Note 2) | 9 | 1.6 | 0 | 0.0 | 1 | 0.2 | 0 | 0.0 | 0 | 0.0 | 10 | 0.4 |
| Total | 556 | 100 | 597 | 100 | 661 | 100 | 465 | 100 | 3 | 100 | 2,282 | 100 |

(Note 1) "Cause of event" may be more than one.

(Note 2) "No choice" means no "cause of event" was selected.

Fig. II-1-46 Clinical Department

| Clinical Department (Note 1) | Januar Mar | • | April June | | July Septen | | Octobe Decem | | No choic | ee (Note 2) | Tota | al |
|-------------------------------|---------------|------|---------------|------|----------------|------|-----------------|------|----------|-------------|--------|------|
| • | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Internal medicine | 21 | 5.5 | 21 | 5.3 | 30 | 6.7 | 21 | 6.8 | 0 | 0.0 | 93 | 6.1 |
| Anesthesiology | 12 | 3.2 | 14 | 3.5 | 9 | 2.0 | 10 | 3.2 | 0 | 0.0 | 45 | 2.9 |
| Cardiovascular medicine | 23 | 6.1 | 27 | 6.8 | 24 | 5.3 | 15 | 4.9 | 0 | 0.0 | 89 | 5.8 |
| Neurology | 6 | 1.6 | 5 | 1.3 | 16 | 3.5 | 6 | 1.9 | 0 | 0.0 | 33 | 2.1 |
| Respiratory tract medicine | 14 | 3.7 | 18 | 4.5 | 19 | 4.2 | 18 | 5.8 | 0 | 0.0 | 69 | 4.5 |
| Gastrointestinal medicine | 27 | 7.1 | 29 | 7.3 | 19 | 4.2 | 16 | 5.2 | 0 | 0.0 | 91 | 5.9 |
| Hematology | 11 | 2.9 | 6 | 1.5 | 8 | 1.8 | 5 | 1.6 | 0 | 0.0 | 30 | 2.0 |
| Circulatory surgery | 3 | 0.8 | 3 | 0.8 | 9 | 2.0 | 7 | 2.3 | 0 | 0.0 | 22 | 1.4 |
| Allergy | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| Rheumatism | 2 | 0.5 | 2 | 0.5 | 3 | 0.7 | 1 | 0.3 | 0 | 0.0 | 8 | 0.5 |
| Pediatrics | 10 | 2.6 | 15 | 3.8 | 17 | 3.8 | 14 | 4.5 | 0 | 0.0 | 56 | 3.6 |
| General surgery | 30 | 7.9 | 28 | 7.1 | 32 | 7.1 | 20 | 6.5 | 1 | 100.0 | 111 | 7.2 |
| Orthopedics | 29 | 7.7 | 33 | 8.3 | 44 | 9.8 | 20 | 6.5 | 0 | 0.0 | 126 | 8.2 |
| Plastic surgery | 5 | 1.3 | 6 | 1.5 | 0 | 0.0 | 5 | 1.6 | 0 | 0.0 | 16 | 1.0 |
| Cosmetic surgery | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Neurosurgery | 17 | 4.5 | 31 | 7.8 | 27 | 6.0 | 15 | 4.9 | 0 | 0.0 | 90 | 5.9 |
| Respiratory surgery | 15 | 4.0 | 9 | 2.3 | 7 | 1.6 | 5 | 1.6 | 0 | 0.0 | 36 | 2.3 |
| Cardiovascular surgery | 15 | 4.0 | 16 | 4.0 | 9 | 2.0 | 11 | 3.6 | 0 | 0.0 | 51 | 3.3 |
| Pediatric surgery | 2 | 0.5 | 1 | 0.3 | 3 | 0.7 | 5 | 1.6 | 0 | 0.0 | 11 | 0.7 |
| Pain clinic | 0 | 0.0 | 0 | 0.0 | 3 | 0.7 | 0 | 0.0 | 0 | 0.0 | 3 | 0.2 |
| Dermatology | 5 | 1.3 | 6 | 1.5 | 3 | 0.7 | 4 | 1.3 | 0 | 0.0 | 18 | 1.2 |
| Urology | 10 | 2.6 | 7 | 1.8 | 18 | 4.0 | 8 | 2.6 | 0 | 0.0 | 43 | 2.8 |
| Venereology | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Proctology | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 1 | 0.1 |
| Gynecology/Obstetrics | 9 | 2.4 | 13 | 3.3 | 16 | 3.5 | 4 | 1.3 | 0 | 0.0 | 42 | 2.7 |
| Obstetrics | 2 | 0.5 | 2 | 0.5 | 2 | 0.4 | 4 | 1.3 | 0 | 0.0 | 10 | 0.7 |
| Gynecology | 5 | 1.3 | 4 | 1.0 | 8 | 1.8 | 4 | 1.3 | 0 | 0.0 | 21 | 1.4 |
| Ophthalmology | 3 | 0.8 | 9 | 2.3 | 7 | 1.6 | 4 | 1.3 | 0 | 0.0 | 23 | 1.5 |
| Otolaryngology | 11 | 2.9 | 10 | 2.5 | 13 | 2.9 | 8 | 2.6 | 0 | 0.0 | 42 | 2.7 |
| Psychosomatic medicine | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| Psychiatry | 13 | 3.4 | 8 | 2.0 | 32 | 7.1 | 22 | 7.1 | 0 | 0.0 | 75 | 4.9 |
| Rehabilitation | 5 | 1.3 | 1 | 0.3 | 3 | 0.7 | 0 | 0.0 | 0 | 0.0 | 9 | 0.6 |
| Radiology | 10 | 2.6 | 8 | 2.0 | 11 | 2.4 | 11 | 3.6 | 0 | 0.0 | 40 | 2.6 |
| Dentistry | 4 | 1.1 | 5 | 1.3 | 1 | 0.2 | 3 | 1.0 | 0 | 0.0 | 13 | 0.8 |
| Orthodontics | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 2 | 0.1 |
| Pediatric dentistry | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Dental/oral surgery | 5 | 1.3 | 5 | 1.3 | 5 | 1.1 | 3 | 1.0 | 0 | 0.0 | 18 | 1.2 |
| Unknown | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 2 | 0.1 |
| Others | 50 | 13.2 | 53 | 13.4 | 53 | 11.8 | 37 | 12.0 | 0 | 0.0 | 193 | 12.6 |
| No choice ^(Note 2) | 3 | 0.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3 | 0.2 |
| Total | 379 | 100 | 397 | 100 | 451 | 100 | 309 | 100 | 1 | 100 | 1,537 | 100 |

(Note 1) More than one "clinical department" may have been involved in one event.

(Note 2) "No choice" means no "clinical department" was selected.

Fig. II-1-47 Years of Experience of Person Involved by Job Title (Doctor, Dentist, Nurse, Pharmacist)

| | | | Doc | ctor | | | Dentist | | | | |
|--|------------------|---------------|-------------------|---------------------|--------------------|-------|------------------|---------------|-------------------|---------------------|-------|
| Years of experience × Job title of person involved ^(Note 1) | January to March | April to June | July to September | October to December | No choice (Note 2) | Total | January to March | April to June | July to September | October to December | Total |
| 0 year | 14 | 10 | 7 | 6 | 0 | 37 | 0 | 3 | 0 | 2 | 5 |
| 1 year | 2 | 2 | 3 | 6 | 0 | 13 | 2 | 1 | 0 | 0 | 3 |
| 2 years | 7 | 7 | 8 | 5 | 0 | 27 | 1 | 0 | 0 | 2 | 3 |
| 3 years | 14 | 9 | 12 | 6 | 0 | 41 | 0 | 1 | 1 | 1 | 3 |
| 4 years | 22 | 14 | 11 | 8 | 0 | 55 | 1 | 1 | 1 | 0 | 3 |
| 5 years | 5 | 13 | 18 | 6 | 0 | 42 | 1 | 0 | 0 | 0 | 1 |
| 6 years | 11 | 13 | 16 | 13 | 0 | 53 | 1 | 0 | 0 | 0 | 1 |
| 7 years | 17 | 12 | 14 | 13 | 0 | 56 | 0 | 1 | 0 | 0 | 1 |
| 8 years | 17 | 14 | 14 | 12 | 1 | 58 | 0 | 2 | 0 | 0 | 2 |
| 9 years | 20 | 15 | 7 | 12 | 0 | 54 | 0 | 0 | 0 | 0 | 0 |
| 10 years | 13 | 22 | 15 | 14 | 0 | 64 | 0 | 0 | 0 | 1 | 1 |
| 11 to 20 years | 78 | 95 | 91 | 61 | 0 | 325 | 7 | 3 | 0 | 1 | 11 |
| 21 to 30 years | 27 | 34 | 29 | 20 | 0 | 110 | 3 | 0 | 0 | 0 | 3 |
| 30 years or longer | 4 | 6 | 16 | 5 | 0 | 31 | 1 | 1 | 0 | 0 | 2 |
| No choice ^(Note 2) | 19 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 |
| Total | 270 | 266 | 261 | 187 | 1 | 985 | 17 | 13 | 2 | 7 | 39 |

⁽Note 1) Person involved is a person determined by the medical institution to have been involved in the event occurred; more than 1 person may have been involved.

(Note 2) "No choice" means no "years of experience" was selected.

| | | Nurse | | | | I | Pharmacis | t | | |
|------------------|---------------|-------------------|---------------------|-------|------------------|---------------|-------------------|---------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | Total | January to March | April to June | July to September | October to December | Total | Aggregate total |
| 20 | 9 | 16 | 24 | 69 | 0 | 0 | 0 | 0 | 0 | 111 |
| 14 | 23 | 15 | 15 | 67 | 0 | 1 | 1 | 0 | 2 | 85 |
| 14 | 10 | 11 | 13 | 48 | 0 | 0 | 0 | 0 | 0 | 78 |
| 12 | 15 | 16 | 17 | 60 | 0 | 0 | 0 | 0 | 0 | 104 |
| 6 | 16 | 11 | 8 | 41 | 0 | 0 | 1 | 0 | 1 | 100 |
| 9 | 9 | 9 | 15 | 42 | 0 | 0 | 0 | 0 | 0 | 85 |
| 12 | 12 | 8 | 4 | 36 | 0 | 0 | 0 | 0 | 0 | 90 |
| 6 | 5 | 7 | 1 | 19 | 1 | 0 | 0 | 0 | 1 | 77 |
| 3 | 4 | 2 | 6 | 15 | 0 | 0 | 0 | 0 | 0 | 75 |
| 8 | 8 | 3 | 3 | 22 | 0 | 0 | 0 | 0 | 0 | 76 |
| 2 | 6 | 3 | 6 | 17 | 0 | 0 | 0 | 0 | 0 | 82 |
| 29 | 31 | 34 | 44 | 138 | 0 | 1 | 3 | 0 | 4 | 478 |
| 23 | 19 | 29 | 11 | 82 | 0 | 2 | 0 | 0 | 2 | 197 |
| 1 | 3 | 6 | 7 | 17 | 0 | 0 | 0 | 0 | 0 | 50 |
| 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 28 |
| 168 | 170 | 170 | 174 | 682 | 1 | 4 | 5 | 0 | 10 | 1,716 |

Fig. II-1-48 Number of Years Person Involved (Doctor, Dentist, Nurse, Pharmacist) Has Been Working at Current Department

| | Doctor Dentist | | | | | | | | | | |
|---|------------------|---------------|-------------------|---------------------|--------------------|-------|------------------|---------------|-------------------|---------------------|-------|
| Number of years at current department × Job title of person involved (Note 1) | January to March | April to June | July to September | October to December | No choice (Note 2) | Total | January to March | April to June | July to September | October to December | Total |
| 0 year | 77 | 54 | 57 | 38 | 0 | 226 | 0 | 4 | 1 | 2 | 7 |
| 1 year | 36 | 32 | 26 | 22 | 0 | 116 | 3 | 1 | 0 | 1 | 5 |
| 2 years | 22 | 18 | 21 | 17 | 0 | 78 | 0 | 2 | 0 | 2 | 4 |
| 3 years | 19 | 17 | 14 | 14 | 1 | 65 | 0 | 0 | 1 | 0 | 1 |
| 4 years | 18 | 16 | 20 | 13 | 0 | 67 | 1 | 1 | 0 | 0 | 2 |
| 5 years | 14 | 15 | 20 | 9 | 0 | 58 | 1 | 1 | 0 | 1 | 3 |
| 6 years | 7 | 15 | 12 | 13 | 0 | 47 | 1 | 1 | 0 | 0 | 2 |
| 7 years | 10 | 14 | 8 | 12 | 0 | 44 | 0 | 0 | 0 | 1 | 1 |
| 8 years | 8 | 7 | 8 | 7 | 0 | 30 | 0 | 0 | 0 | 0 | 0 |
| 9 years | 9 | 8 | 5 | 6 | 0 | 28 | 1 | 0 | 0 | 0 | 1 |
| 10 years | 6 | 14 | 9 | 10 | 0 | 39 | 1 | 0 | 0 | 0 | 1 |
| 11 to 20 years | 25 | 47 | 46 | 16 | 0 | 134 | 5 | 2 | 0 | 0 | 7 |
| 21 to 30 years | 4 | 8 | 13 | 10 | 0 | 35 | 4 | 1 | 0 | 0 | 5 |
| 30 years or longer | 0 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| No choice ^(Note 2) | 15 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 |
| Total | 270 | 266 | 261 | 187 | 1 | 985 | 17 | 13 | 2 | 7 | 39 |

⁽Note 1) Person involved is a person determined by the medical institution to have been involved in the event occurred; more than 1 person may have been involved.

(Note 2) "No choice" means no "number of years at current department" was selected.

Fig. II-1-49 Working Hours (in week previous to event) (Note 1) of Person Involved (Doctors) (Note 2)

| Working hours | January to March | April to June | July to September | October to December | No choice | January to December |
|---|---------------------|------------------|----------------------|------------------------|-----------|------------------------|
| <0 to 8 hours | 1 | 6 | 0 | 2 | 0 | 9 |
| <8 to 16 hours | 5 | 1 | 0 | 2 | 0 | 8 |
| <16 to 24 hours | 1 | 1 | 1 | 1 | 0 | 4 |
| <24 to 32 hours | 4 | 7 | 10 | 1 | 0 | 22 |
| <32 to 40 hours | 12 | 23 | 26 | 24 | 0 | 85 |
| <40 to 48 hours | 85 | 70 | 67 | 60 | 0 | 282 |
| <48 to 56 hours | 35 | 44 | 53 | 15 | 0 | 147 |
| <56 to 64 hours | 31 | 43 | 45 | 35 | 0 | 154 |
| <64 to 72 hours | 24 | 33 | 26 | 19 | 0 | 102 |
| <72 to 80 hours | 0 | 8 | 4 | 9 | 0 | 21 |
| <80 to 88 hours | 9 | 13 | 16 | 12 | 0 | 50 |
| <88 to 96 hours | 5 | 1 | 1 | 2 | 0 | 9 |
| 96 hours or more | 7 | 12 | 10 | 4 | 0 | 33 |
| Unknown | 6 | 4 | 2 | 1 | 0 | 13 |
| No choice | 45 | 0 | 0 | 0 | 1 | 46 |
| Total | 270 | 266 | 261 | 187 | 1 | 985 |
| Average working hours (not including unknown/no choice) | 51.5 | 53.3 | 53.8 | 52.4 | - | 52.8 |

⁽Note 1) The working hours may include not only in-hospital but also out-of-hospital working hours.

Fig. II-1-50 Working Hours (in week previous to event) (Note 1) of Person Involved (Nurses) (Note 2)

| Working hours | January to March | April to June | July to September | October to December | No choice | January to December |
|---|---------------------|------------------|----------------------|------------------------|-----------|------------------------|
| <0 to 8 hours | 1 | 3 | 6 | 3 | 0 | 13 |
| <8 to 16 hours | 1 | 0 | 1 | 3 | 0 | 5 |
| <16 to 24 hours | 5 | 1 | 1 | 4 | 0 | 11 |
| <24 to 32 hours | 13 | 15 | 14 | 11 | 0 | 53 |
| <32 to 40 hours | 45 | 37 | 49 | 54 | 0 | 185 |
| <40 to 48 hours | 74 | 88 | 73 | 81 | 0 | 316 |
| <48 to 56 hours | 12 | 20 | 18 | 11 | 0 | 61 |
| <56 to 64 hours | 3 | 6 | 8 | 7 | 0 | 24 |
| <64 to 72 hours | 0 | 0 | 0 | 0 | 0 | 0 |
| <72 to 80 hours | 0 | 0 | 0 | 0 | 0 | 0 |
| <80 to 88 hours | 0 | 0 | 0 | 0 | 0 | 0 |
| <88 to 96 hours | 0 | 0 | 0 | 0 | 0 | 0 |
| 96 hours or more | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 1 | 0 | 0 | 0 | 0 | 1 |
| No choice | 13 | 0 | 0 | 0 | 0 | 13 |
| Total | 168 | 170 | 170 | 174 | 0 | 682 |
| Average working hours (not including unknown/no choice) | 37.2 | 38.8 | 37.3 | 36.8 | - | 37.5 |

⁽Note 1) The working hours may include not only in-hospital but also out-of-hospital working hours.

⁽Note 2) The person involved is a person who is determined to be related to the relevant event by medical institutions and may include part-time staff. The person involved also may give multiple answers.

⁽Note 2) The person involved is a person who is determined to be related to the relevant event by medical institutions and may include part-time staff. The person involved also may give multiple answers.

Fig. II-1-51 Number of Night Shifts (in week previous to event) of Person Involved (Doctors)

| Number of night shifts | January to March | April to June | July to September | October to December | No choice | January to December |
|--|---------------------|------------------|----------------------|------------------------|-----------|------------------------|
| Zero | 104 | 114 | 103 | 78 | 0 | 399 |
| 1 time | 75 | 76 | 92 | 67 | 0 | 310 |
| 2 times | 20 | 29 | 17 | 13 | 0 | 79 |
| 3 times | 5 | 9 | 4 | 5 | 0 | 23 |
| 4 times | 0 | 1 | 2 | 1 | 0 | 4 |
| 5 times | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 times | 0 | 0 | 1 | 0 | 0 | 1 |
| 7 times | 0 | 1 | 0 | 0 | 0 | 1 |
| Unknown | 23 | 35 | 42 | 23 | 0 | 123 |
| No choice | 43 | 0 | 0 | 0 | 1 | 44 |
| Total | 270 | 266 | 261 | 187 | 1 | 985 |
| Average number of night shifts (not including unknown/no choice) | 0.64 | 0.77 | 0.69 | 0.68 | - | 0.70 |

Fig. II-1-52 Number of Night Shifts (in week previous to event) of Person Involved (Nurses)

| Number of night shifts | January to March | April to June | July to September | October to December | No choice | January to December |
|--|---------------------|------------------|----------------------|------------------------|-----------|------------------------|
| Zero | 25 | 35 | 40 | 38 | 0 | 138 |
| 1 time | 56 | 39 | 36 | 49 | 0 | 180 |
| 2 times | 61 | 54 | 66 | 64 | 0 | 245 |
| 3 times | 13 | 27 | 13 | 17 | 0 | 70 |
| 4 times | 2 | 4 | 3 | 4 | 0 | 13 |
| 5 times | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 times | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 times | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 0 | 10 | 12 | 2 | 0 | 24 |
| No choice | 11 | 0 | 0 | 0 | 0 | 11 |
| Total | 168 | 170 | 170 | 174 | 0 | 682 |
| Average number of night shifts (not including unknown/no choice) | 1.43 | 1.56 | 1.39 | 1.42 | - | 1.45 |

Fig. II-1-53 Cause of Event and Summary of Event

| | Ordering | | | | | | | | Dr | ug | | | | Bloc | od tra | ansfu | sion | | | | | tmen edur | | | M | | cal equipment, etc. Medical device | | | | | | |
|---|------------------|---------------|-------------------|---------------------|--------------------|-------|------------------|---------------|-------------------|---------------------|--------------------|-------|------------------|---------------|-------------------|---------------------|--------------------|-------|------------------|---------------|-------------------|---------------------|--------------------|-------|------------------|---------------|---------------------------------------|---------------------|--------------------|-------|--|--|--|
| Cause of event (Note 1) × summary of event | January to March | April to June | July to September | October to December | No choice (Note 2) | Total | January to March | April to June | July to September | October to December | No choice (Note 2) | Total | January to March | April to June | July to September | October to December | No choice (Note 2) | Total | January to March | April to June | July to September | October to December | No choice (Note 2) | Total | January to March | April to June | July to September | October to December | No choice (Note 2) | Total | | | |
| Neglect to check | 3 | 2 | 4 | 1 | 1 | 11 | 9 | 16 | 14 | 9 | 0 | 48 | 2 | 2 | 0 | 3 | 0 | 7 | 34 | 42 | 40 | 30 | 0 | 146 | 4 | 3 | 4 | 3 | 0 | 14 | | | |
| Neglect to observe | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 18 | 24 | 13 | 0 | 76 | 2 | 2 | 2 | 1 | 0 | 7 | | | |
| Misjudgment | 1 | 1 | 2 | 0 | 0 | 4 | 5 | 2 | 3 | 2 | 0 | 12 | 0 | 1 | 0 | 0 | 0 | 1 | 28 | 27 | 30 | 19 | 0 | 104 | 4 | 1 | 2 | 2 | 0 | 9 | | | |
| Lack of knowledge | 0 | 0 | 2 | 1 | 1 | 4 | 6 | 6 | 5 | 1 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 12 | 8 | 4 | 0 | 34 | 2 | 0 | 2 | 1 | 0 | 5 | | | |
| Deficiency of technique/skill | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 19 | 13 | 8 | 0 | 51 | 0 | 0 | 1 | 0 | 0 | 1 | | | |
| Delayed reporting | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 3 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 1 | | | |
| Under unusual physical condition | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 7 | 3 | 0 | 19 | 0 | 1 | 1 | 0 | 0 | 2 | | | |
| Under unusual psychological condition | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 4 | 0 | 9 | 1 | 0 | 0 | 0 | 0 | 1 | | | |
| System failure | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 4 | 1 | 1 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 1 | 3 | 4 | 3 | 4 | 0 | 14 | 1 | 1 | 0 | 1 | 0 | 3 | | | |
| Inadequate coordination | 2 | 0 | 3 | 1 | 0 | 6 | 1 | 6 | 3 | 3 | 0 | 13 | 1 | 1 | 0 | 1 | 0 | 3 | 6 | 12 | 13 | 9 | 0 | 40 | 1 | 0 | 0 | 2 | 0 | 3 | | | |
| Inadequate documentation | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | | | |
| Similarity in patient's appearance or name | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Busy working condition | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 3 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 4 | 4 | 0 | 14 | 0 | 0 | 0 | 1 | 0 | 1 | | | |
| Problem in environment | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 1 | | | |
| Problem in the drug | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 2 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Problem in medical device | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 4 | 0 | 4 | 2 | 0 | 10 | 6 | 1 | 5 | 3 | 0 | 15 | | | |
| Problem in other items | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 1 | 0 | 10 | 1 | 0 | 0 | 1 | 0 | 2 | | | |
| Problem in facility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | | | |
| Problem in education/training | 0 | 0 | 3 | 0 | 1 | 4 | 4 | 3 | 2 | 1 | 0 | 10 | 0 | 1 | 0 | 0 | 0 | 1 | 4 | 4 | 4 | 3 | 0 | 15 | 1 | 0 | 1 | 0 | 0 | 2 | | | |
| Lack of explanation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 9 | 9 | 7 | 0 | 29 | 2 | 0 | 0 | 1 | 0 | 3 | | | |
| Others | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 7 | 0 | 0 | 12 | 0 | 1 | 0 | 1 | 0 | 2 | 30 | 33 | 43 | 24 | 0 | 130 | 5 | 1 | 2 | 1 | 0 | 9 | | | |
| No choice ^(Note 2) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Total | 7 | 3 | 19 | 3 | 3 | 35 | 40 | 51 | 44 | 22 | 0 | 157 | 3 | 12 | 0 | 6 | 0 | 21 | 176 | 199 | 217 | 142 | 0 | 734 | 33 | 10 | 20 | 18 | 0 | 81 | | | |

(Note 1) "Cause of event" may have been more than one.

(Note 2) "No choice" means no "cause of event" or "summary of event" was selected.

| Medical equipment, etc. | | | | | | | | | | Examination Nursing care | | | | | | | | are Others | | | | | | | | | | | | |
|-------------------------|---------------|-------------------|---------------------|-------------------------------|-------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|-----------------|
| D | raina | ge tu tu | | r oth | er | | Den | tal ec | luip r | nent | | | Е | xami | natio | n | | | N | ursii | ıg ca | re | | | | Oth | iers | | | |
| January to March | April to June | July to September | October to December | No choice ^(Note 2) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 2) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 2) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 2) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 2) | Total | Aggregate total |
| 6 | 5 | 7 | 6 | 0 | 24 | 1 | 0 | 0 | 1 | 0 | 2 | 3 | 6 | 3 | 3 | 0 | 15 | 7 | 14 | 17 | 9 | 0 | 47 | 13 | 3 | 6 | 6 | 0 | 28 | 342 |
| 10 | 5 | 3 | 4 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 3 | 0 | 8 | 26 | 34 | 42 | 31 | 0 | 133 | 10 | 10 | 14 | 11 | 0 | 45 | 299 |
| 7 | 4 | 5 | 5 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 1 | 1 | 0 | 10 | 22 | 20 | 31 | 30 | 0 | 103 | 10 | 10 | 9 | 9 | 0 | 38 | 302 |
| 1 | 3 | 3 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 3 | 4 | 5 | 1 | 0 | 13 | 2 | 1 | 1 | 2 | 0 | 6 | 91 |
| 2 | 2 | 5 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 2 | 1 | 0 | 11 | 4 | 8 | 7 | 4 | 0 | 23 | 2 | 0 | 2 | 2 | 0 | 6 | 106 |
| 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 6 | 2 | 0 | 13 | 0 | 1 | 2 | 1 | 0 | 4 | 30 |
| 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 3 | 4 | 4 | 3 | 3 | 0 | 14 | 5 | 2 | 3 | 1 | 0 | 11 | 52 |
| 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 3 | 4 | 0 | 3 | 1 | 0 | 8 | 27 |
| 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 1 | 0 | 6 | 0 | 2 | 1 | 1 | 0 | 4 | 3 | 2 | 2 | 1 | 0 | 8 | 48 |
| 0 | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 4 | 11 | 11 | 12 | 7 | 0 | 41 | 5 | 5 | 5 | 3 | 0 | 18 | 131 |
| 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 4 | 6 | 2 | 0 | 13 | 1 | 1 | 2 | 4 | 0 | 8 | 33 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 3 | 7 | 6 | 4 | 2 | 0 | 19 | 5 | 1 | 3 | 4 | 0 | 13 | 61 |
| 1 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 8 | 7 | 7 | 9 | 0 | 31 | 6 | 2 | 6 | 1 | 0 | 15 | 59 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 2 | 0 | 1 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 3 | 38 |
| 1 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 0 | 6 | 1 | 1 | 1 | 2 | 0 | 5 | 25 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 7 | 5 | 6 | 1 | 0 | 19 | 4 | 10 | 6 | 3 | 0 | 23 | 48 |
| 1 | 2 | 1 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 | 6 | 8 | 4 | 7 | 0 | 25 | 4 | 5 | 1 | 3 | 0 | 13 | 79 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 6 | 16 | 19 | 9 | 14 | 0 | 58 | 2 | 8 | 7 | 2 | 0 | 19 | 116 |
| 4 | 2 | 3 | 2 | 0 | 11 | 0 | 1 | 0 | 0 | 0 | 1 | 4 | 7 | 9 | 4 | 0 | 24 | 10 | 18 | 32 | 22 | 0 | 82 | 23 | 24 | 32 | 21 | 0 | 100 | 371 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 10 |
| 36 | 27 | 33 | 28 | 0 | 124 | 2 | 1 | 0 | 1 | 0 | 4 | 22 | 35 | 27 | 18 | 0 | 102 | 136 | 172 | 194 | 149 | 0 | 651 | 101 | 87 | 107 | 78 | 0 | 373 | 2,282 |

Fig. II-1-54 Situation and Potential of Residual Disability

| | | | De | ath | | High | | | | | | | |
|---|---------------------|---------------|----------------------|------------------------|-------------------------------|-------|---------------------|---------------|----------------------|---------------------|------------------------------|--------|--|
| Situation × Potential of Residual Disability | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^{(Note 1} | Total | |
| Related to drug | 1 | | ۲ | | | r | 1 | | [[]] | | | | |
| Drug preparation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | |
| Subcutaneous/intramuscular injection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Intravenous injection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| Arterial injection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Peripheral intravenous drop | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | |
| Central venous injection | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | |
| Oral administration | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 2 | |
| Nose drop/eye drop/ear drop | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Other drug prescription/administration | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | |
| Oral drug dispensing/management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Injection dispensing/management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Dispensing/management, others | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Related to blood transfusion | 1 | I | ۲ | | | ۲ |] | · · · · · · | [] | | [| | |
| Pre-transfusion testing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Blood transfusion | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | |
| Blood transfusion, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Related to treatment/procedure | 1 | I | ۲ | | | [| | I | [] | 1 | [| | |
| Craniotomy | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 3 | |
| Thoracotomy | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 1 | 2 | 1 | 0 | 6 | |
| Cardiotomy | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | |
| Laparotomy | 5 | 0 | 0 | 1 | 0 | 6 | 1 | 0 | 3 | 0 | 0 | 4 | |
| Extremities | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 3 | |
| Endoscopic surgery | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 5 | |
| Other surgery | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 2 | 2 | 0 | 14 | |
| Preparation for surgery | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| Preoperative procedure | 1 | 0 | 0 | 0 | 0 | 1 | 2 | <u>1</u> | 0 | 0 | 0 | 1 | |
| Postoperative procedure Surgery, others | | 2 | | 0 | 0 | 4 | 0 | 1 | <u>1</u> | 0 | 0 | 4 | |
| General anesthesia (inhalation anesthesia and intravenous anesthesia) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 1 | |
| Local anesthesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| Inhalation anesthesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Intravenous anesthesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | |
| Vertebral/epidural anesthesia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Anesthesia, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Caesarean section | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | |
| Delivery and artificial abortion, others | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 3 | |
| Blood purification (including hemodialysis) | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| IVR (ex. angiocatheter) | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 4 | |
| Radiotherapy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Rehabilitation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| Invasive dental treatment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

| | | Lo | ow | | | | | Unkı | nown | | | | N | No choi | ce(Note | 1) | | _ |
|---------------------|---------------|----------------------|------------------------|--------------------|-------|---------------------|---------------|----------------------|------------------------|--------------------|-------|---------------------|---------------|----------------------|------------------------|--------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | No choice (Note 1) | Total | January to March | April to June | July to September | October to December | No choice (Note 1) | Total | January to March | April to June | July to September | October to December | No choice (Note 1) | Total | Aggregate total |
| | | | | | | | | | | | | | | | | | | 85 |
| 1 | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 1 | 3 | 1 | 0 | 5 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 3 | 2 | 2 | 4 | 0 | 11 | 3 | 0 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4 | 3 | 2 | 2 | 0 | 11 | 0 | 3 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 3 | 3 | 2 | 0 | 8 | 0 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | | | | | | | | | | | | | | | | | | 8 |
| 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 0 | 0 | 2 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | 385 |
| 0 | 4 | 2 | 1 | 0 | 7 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 2 | 0 | 2 | 0 | 0 | 4 | 2 | 0 | 1 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 3 | 1 | 2 | 0 | 0 | 6 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 10 | 6 | 7 | 4 | 0 | 27 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 0 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 3 | 5 | 5 | 6 | 0 | 19 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 6 | 7 | 8 | 8 | 0 | 29 | 3 | 3 | 5 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4 | 0 | 4 | 2 | 0 | 10 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 2 | 8 | 7 | 1 | 0 | 18 | 2 | 2 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2 | 2 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 3 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 2 | 1 | 2 | 1 | 0 | 6 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 2 | 7 | 1 | 3 | 0 | 13 | 1 | 1 | 1 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 2 | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| | | | De | ath | | | | | Hi | gh | | |
|---|---------------------|---------------|----------------------|------------------------|--------------------|-------|---------------------|---------------|----------------------|------------------------|--------------------|-------|
| Situation × Potential of Residual Disability | January to March | April to June | July to September | October to December | No choice (Note 1) | Total | January to March | April to June | July to September | October to December | No choice (Note 1) | Total |
| Endoscopic treatment | 1 | 1 | 1 | 0 | 0 | 3 | 2 | 0 | 1 | 0 | 0 | 3 |
| Treatment, others | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 7 |
| Central venous line | 1 | 0 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peripheral venous line | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Catheter for blood purification | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Feeding tube (NG, ED) | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 |
| Urethral catheter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tube placement, others | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drainage procedure | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Wound care | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 2 |
| Tracheal intubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Tracheotomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cardiac compression | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oxygen therapy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Emergency procedure, others | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| elated to use/management of medical equipn | nent (d | evice) | | | | | , | | , | | | |
| Mechanical ventilator | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 3 |
| Oxygen therapy equipment | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Oxygenator | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Defibrillator | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pace maker | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Infusion/transfusion pump | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Blood purification device | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ECG, blood pressure monitor | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pulse oxymeter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Use/management of medical equipment (device), others | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 |
| elated to use/management of drainage tube o | or other | r tube | | | | l | | | | | | |
| Central venous line (Drainage tube, other tubes) | 1 | 1 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 0 | 2 |
| Peripheral venous line | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tracheal tube | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 2 |
| Tracheal cannula | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Feeding tube (NG, ED) (Use of drainage tube, other tubes) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Urethral catheter (Drainage tube, other tubes) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chest drainage tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Abdominal drainage tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ventricular/cisternal drainage tube | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Subcutaneous continuous suction drainage tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Epidural catheter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Catheter/line for blood purification | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| Use/management of drainage tube or other tube, others | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 3 |

| | | Lo |)W | | | | | Unkı | nown | | | | N | No choi | ce ^{(Note} | 1) | | - Pa |
|---------------------|---------------|----------------------|------------------------|-------------------------------|------------------|---------------------|---------------|----------------------|------------------------|-------------------------------|-------|---------------------|---------------------------------------|----------------------|------------------------|-------------------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | Aggregate total |
| 3 | 3 | 6 | 1 | 0 | 13 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 4 | 4 | 3 | 4 | 0 | 15 | 1 | 3 | 1 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| 3 | 3 | 4 | 0 | 0 | 10 | 2 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 3 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 0 | 2 | 1 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | [:-1 | | [] | : | | | | [: | | | | | r | | r | 1 | 39 |
| 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 4 | <u>0</u> 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | / | 2 | 0 | 17 | 2 | 0 | 0 | 0 | 0 | 2 | U | 0 | 0 | 0 | 0 | 0 | 23 83 |
| 0 | 0 | 3 | 2 | 0 | 5 | 3 | 0 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1 | 0 | 3 | 0 | 0 | | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 6 | 1 | 0 | 2 | 0 | 2 | 1 | <u>ٽ</u> | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 1 | 1 | 1 | 0 | 0 | <u>´</u> | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 1 | 0 | <u>†</u> | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 1 | 0 | 0 | 0 | <u>†</u> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2 | 7 | 1 | 4 | 0 | 14 | 3 | 2 | 1 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| | , | | | 3 | | , | | 1 | 9 | 5 | | 9 | , , , , , , , , , , , , , , , , , , , | | 3 | , | , | |

| | | | De | ath | | | | | Но | gh | | |
|--|---------------------|---------------|----------------------|------------------------|--------------------|----------|---------------------|---------------|----------------------|------------------------|-------------------------------|-------|
| Situation × Potential of Residual Disability | January to March | April to June | July to September | October to December | No choice (Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total |
| Related to examination | | | | | | | | | | | | |
| Blood drawing | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| Other sample collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| General imaging | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MRI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Angiocatheter-aided imaging | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 3 |
| Lower gastrointestinal imaging | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Other imaging | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Upper gastrointestinal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| Lower gastrointestinal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bronchoscopy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other endoscopic examination | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pathological examination | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Examination, others | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Related to nursing care | | | <u> </u> | | | . | | | | | | |
| Endotracheal/oral suctioning | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Changing position | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| Bed bath | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Help with changing clothes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Help with eating | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 7 |
| * | 0 | | · | | | | | | | | | |
| Help with bathing | } | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| Help with elimination | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| Help with moving | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 4 |
| Transportation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tending patient's belongings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meal serving | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Patient observation | 2 | 0 | 1 | 1 | 0 | 4 | 0 | 2 | 5 | 1 | 0 | 8 |
| Other nursing care | 0 | 3 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 2 |
| Oral intake | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 |
| While taking a walk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| While moving from one place to another | 1 | 1 | 2 | 2 | 0 | 6 | 3 | 4 | 5 | 2 | 0 | 14 |
| While going out/sleeping out | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| While eating | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| While bathing | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| While excreting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| While sleeping | 0 | 1 | 0 | 3 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 3 |
| Recuperation, others | 1 | 2 | 2 | 2 | 0 | 7 | 0 | 1 | 1 | 2 | 0 | 4 |
| Others | 10 | 7 | 9 | 5 | 0 | 31 | 8 | 8 | 3 | 3 | 0 | 22 |
| No choice ^(Note 1) | 8 | 8 | 6 | 2 | 0 | 24 | 1 | 2 | 4 | 4 | 0 | 11 |
| Total | 44 | 38 | 32 | 29 | 0 | 143 | 45 | 54 | 56 | 44 | 0 | 199 |

 $(Note\ 1)\ "No\ choice"\ means\ no\ "situation"\ or\ "potential\ of\ residual\ disability"\ was\ selected.$

| | | Lo |)W | | | | | Unkı | nown | | | | ľ | No choi | ice ^(Note) | 1) | | .al |
|---------------------|---------------|----------------------|------------------------|--------------------|-------|---------------------|---------------|----------------------|------------------------|--------------------|-------|---------------------|---------------|----------------------|------------------------|-------------------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | No choice (Note 1) | Total | January to March | April to June | July to September | October to December | No choice (Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | Aggregate total |
| | | | | | | | | | | | | | | | | | | 70 |
| 0 | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1 | 1 | 1 | 1 | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1 | 3 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 2 | 3 | 1 | 0 | 6 | 1 | 0 | 1 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1 | 4 | 1 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 2 | 0 | 1 | 1 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 3 | 1 | 1 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2 | 0 | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| | , | | , , | | | , | | | | | | ,, | | | , | | , | 360 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 1 | 1 | 1 | 0 | 4 | 0 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1 | 2 | 1 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 1 | 1 | 3 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 4 | 3 | 3 | 4 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 1 | 3 | 6 | 3 | 0 | 13 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 6 | 9 | 8 | 0 | 24 | 0 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 8 | 2 | 8 | 8 | 0 | 26 | 2 | 2 | 2 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 20 | 14 | 17 | 16 | 0 | 67 | 4 | 2 | 4 | 3 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 1 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 2 | 4 | 1 | 1 | 0 | 8 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 6 | 2 | 3 | 3 | 0 | 14 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 1 | 2 | 2 | 2 | 0 | 7 | 0 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 5 | 12 | 11 | 5 | 0 | 33 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 11 | 10 | 18 | 10 | 0 | 49 | 6 | 10 | 11 | 6 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 135 |
| 10 | 7 | 16 | 12 | 0 | 45 | 4 | 4 | 5 | 4 | 0 | 17 | 1 | 0 | 0 | 0 | 0 | 1 | 98 |
| 161 | 186 | 212 | 149 | 0 | 708 | 55 | 51 | 67 | 37 | 1 | 211 | 2 | 0 | 0 | 0 | 0 | 2 | 1,263 |

Fig. II-1-55 Place of Occurrence and Inpatient/Outpatient Status

| | | | Inp | atient | | | | | Outp | atient | | |
|--|------------------|---------------|-------------------|---------------------|--------------------|-------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|
| Place of Occurrence × Inpatient/Outpatient Status | January to March | April to June | July to September | October to December | No choice (Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total |
| Outpatient examination room | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 14 | 7 | 9 | 0 | 35 |
| Outpatient treatment room | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 2 | 3 | 1 | 0 | 8 |
| Outpatient lobby | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 3 |
| Emergency room | 1 | 0 | 1 | 0 | 0 | 2 | 3 | 1 | 6 | 0 | 0 | 10 |
| Critical care center | 4 | 2 | 3 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| Patient room | 121 | 128 | 161 | 106 | 0 | 516 | 0 | 0 | 1 | 0 | 0 | 1 |
| Ward treatment room | 4 | 4 | 5 | 2 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operation room | 57 | 53 | 59 | 49 | 0 | 218 | 0 | 3 | 2 | 0 | 0 | 5 |
| ICU | 8 | 13 | 4 | 6 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| CCU | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| NICU | 0 | 4 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Examination room | 4 | 5 | 6 | 5 | 0 | 20 | 1 | 2 | 3 | 2 | 0 | 8 |
| Catheterization laboratory | 6 | 14 | 6 | 6 | 0 | 32 | 1 | 1 | 1 | 0 | 0 | 3 |
| Radiotherapy room | 1 | 3 | 1 | 3 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Radiography room | 5 | 7 | 6 | 2 | 0 | 20 | 1 | 1 | 3 | 1 | 0 | 6 |
| Radioactive scanning room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Dialysis room | 3 | 3 | 2 | 2 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| Delivery room | 1 | 1 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rehabilitation room | 1 | 1 | 1 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 1 |
| Restroom | 4 | 6 | 8 | 6 | 0 | 24 | 0 | 0 | 0 | 1 | 0 | 1 |
| Hallway | 5 | 10 | 15 | 9 | 0 | 39 | 0 | 0 | 3 | 0 | 0 | 3 |
| Bathroom | 3 | 12 | 3 | 4 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stairway | 0 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 5 | 4 | 4 | 6 | 0 | 19 | 0 | 0 | 0 | 1 | 0 | 1 |
| Others | 21 | 13 | 27 | 22 | 0 | 83 | 5 | 7 | 8 | 6 | 1 | 27 |
| No choice ^(Note 1) | 7 | 12 | 7 | 6 | 0 | 32 | 0 | 1 | 1 | 0 | 0 | 2 |
| Total | 261 | 297 | 325 | 238 | 0 | 1,121 | 19 | 32 | 42 | 21 | 1 | 115 |

(Note 1) "No choice" means no "place of occurrence" or "inpatient/outpatient status" was selected.

Fig. II-1-56 Summary of Event and Potential of Residual Disability

| | | | De | ath | | | | | Hi | gh | | |
|---|------------------|---------------|-------------------|---------------------|-------------------------------|-------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|
| Summary of Event × Potential of Residual Disability | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total |
| Ordering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 3 | 0 | 8 |
| Blood transfusion | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Treatment/procedure | 15 | 7 | 9 | 8 | 0 | 39 | 19 | 27 | 27 | 17 | 0 | 90 |
| Medical equipment, etc. | 3 | 3 | 2 | 3 | 0 | 11 | 4 | 2 | 3 | 3 | 0 | 12 |
| Medical device | 1 | 0 | 1 | 1 | 0 | 3 | 3 | 1 | 1 | 1 | 0 | 6 |
| Drainage tube or other tube | 2 | 3 | 1 | 2 | 0 | 8 | 1 | 1 | 2 | 2 | 0 | 6 |
| Dental equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Examination/test | 1 | 3 | 1 | 0 | 0 | 5 | 1 | 3 | 2 | 2 | 0 | 8 |
| Nursing care | 5 | 7 | 5 | 7 | 0 | 24 | 6 | 12 | 15 | 15 | 0 | 48 |
| Others | 18 | 17 | 15 | 11 | 0 | 61 | 14 | 6 | 8 | 4 | 0 | 32 |
| No choice ^(Note 1) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 44 | 38 | 32 | 29 | 0 | 143 | 45 | 54 | 56 | 44 | 0 | 199 |

(Note 1) "No choice" means no "summary of event" or "potential of residual disability" was selected.

| | | Lo | OW | | | | | Unkı | nown | | | | N | o cho | ce ^{(Note} | 1) | | |
|------------------|---------------|-------------------|---------------------|-------------------------------|-------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | Aggregate total |
| 2 | 2 | 3 | 1 | 0 | 8 | 1 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 7 | 14 | 12 | 9 | 0 | 42 | 4 | 5 | 9 | 1 | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| 1 | 1 | 0 | 3 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 52 | 69 | 71 | 40 | 0 | 232 | 13 | 18 | 20 | 15 | 0 | 66 | 2 | 0 | 0 | 0 | 0 | 2 | 429 |
| 19 | 11 | 15 | 17 | 0 | 62 | 14 | 3 | 6 | 2 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| 6 | 2 | 6 | 4 | 0 | 18 | 4 | 2 | 1 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 11 | 8 | 9 | 12 | 0 | 40 | 10 | 1 | 5 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 2 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 9 | 17 | 14 | 7 | 0 | 47 | 6 | 3 | 3 | 3 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 75 |
| 50 | 53 | 71 | 53 | 0 | 227 | 9 | 10 | 12 | 8 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 338 |
| 21 | 19 | 26 | 19 | 0 | 85 | 7 | 12 | 15 | 8 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 220 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 161 | 186 | 212 | 149 | 0 | 708 | 55 | 51 | 67 | 37 | 1 | 211 | 2 | 0 | 0 | 0 | 0 | 2 | 1,263 |

Fig. II-1-57 Place of Occurrence and Potential of Residual Disability

| | | | De | ath | | | | | Hi | gh | | |
|--|------------------|---------------|-------------------|---------------------|-------------------------------|-------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|
| Place of Occurrence × Potential of Residual Disability | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total |
| Outpatient examination room | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 4 |
| Outpatient treatment room | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 2 |
| Outpatient lobby | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Emergency room | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 2 |
| Critical care center | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 |
| Patient room | 23 | 17 | 16 | 14 | 0 | 70 | 19 | 15 | 25 | 19 | 0 | 78 |
| Ward treatment room | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| Operation room | 7 | 0 | 3 | 3 | 0 | 13 | 9 | 14 | 12 | 12 | 0 | 47 |
| ICU | 2 | 4 | 2 | 0 | 0 | 8 | 2 | 3 | 0 | 2 | 0 | 7 |
| CCU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NICU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Examination room | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 2 | 0 | 7 |
| Catheterization laboratory | 0 | 2 | 1 | 0 | 0 | 3 | 1 | 3 | 1 | 0 | 0 | 5 |
| Radiotherapy room | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Radiography room | 1 | 0 | 1 | 1 | 0 | 3 | 2 | 4 | 0 | 1 | 0 | 7 |
| Radioactive scanning room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dialysis room | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| Delivery room | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 2 |
| Rehabilitation room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Restroom | 1 | 1 | 1 | 0 | 0 | 3 | 0 | 2 | 0 | 2 | 0 | 4 |
| Hallway | 0 | 1 | 1 | 2 | 0 | 4 | 1 | 2 | 2 | 1 | 0 | 6 |
| Bathroom | 0 | 0 | 0 | 3 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 2 |
| Stairway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Unknown | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 |
| Others | 4 | 5 | 5 | 4 | 0 | 18 | 3 | 2 | 7 | 2 | 0 | 14 |
| No choice ^(Note 1) | 3 | 2 | 1 | 0 | 0 | 6 | 1 | 3 | 0 | 1 | 0 | 5 |
| Total | 44 | 38 | 32 | 29 | 0 | 143 | 45 | 54 | 56 | 44 | 0 | 199 |

(Note 1) "No choice" means no "place of occurrence" or "potential of residual disability" was selected.

Fig. II-1-58 Details of Event and Potential of Residual Disability

| | | | De | ath | | | | | Hi | gh | | |
|---|--|---------------|----------------------|------------------------|--------------------|-------|---------------------|---------------|----------------------|------------------------|--------------------|-------|
| Details of Event × Potential of Residual Disability | January to March | April to June | July to September | October to December | No choice (Note 1) | Total | January to March | April to June | July to September | October to December | No choice (Note 1) | Total |
| Related to drug | 1 | r <u>-</u> | 1 | | | | r | | · | | | · |
| Dose error | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overdose | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Dosing speed too fast | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Patient misidentification | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug mix-up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Wrong dosing method | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug prescription/administration, others | 1 | 1 | 0 | 0 | 0 | 2 | 3 | 2 | 1 | 0 | 0 | 6 |
| Dispensing error (wrong dose/number) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dispensing/drug management, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug/blood product management, others Related to blood transfusion | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Cross-match error | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | I | 0 | 0 | 0 |
| Error in documentation/recording of | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| results Transfusion testing, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irradiation of blood products, blood | <u> </u> | | 0 | | 0 | | | 0 | | 0 | | 0 |
| transfusion, others | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Related to treatment/procedure | , | | , | , , | | 1 | | | ₇ | | 1 | |
| Patient misidentification | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong site treatment/procedure | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| Wrong examination/treatment/ procedure, others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong method (technique) | 1 | 1 | 0 | 0 | 0 | 2 | 4 | 3 | 1 | 3 | 0 | 11 |
| Not implemented/forgotten (treatment/procedure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unnecessary treatment/procedure | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong patient position | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong examination/treatment, others | 2 | 0 | 0 | 1 | 0 | 3 | 4 | 1 | 1 | 0 | 0 | 6 |
| Aspiration | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Retained foreign object | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Treatment/procedure, others | 9 | 7 | 8 | 6 | 0 | 30 | 9 | 16 | 20 | 9 | 0 | 54 |
| Use/management of medical equipment (device | | | , | , , | | 1 | | | _r | | 1 | |
| Assembly | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Forgot to set up/turn on power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Malfunction | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Lack of knowledge | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forgot to set alarm Range of alarm setup | $\begin{bmatrix} 0 \\ 0 \end{bmatrix}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Neglect in inspection/management before or during device operation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Error in sterilization/cleaning technique (medical equipment, etc) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Breakage (medical equipment, etc) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Use/management of medical equipment (device), others | 2 | 0 | 0 | 2 | 0 | 4 | 2 | 0 | 1 | 2 | 0 | 5 |

| | | Lo |)W | | | | | Unkı | nown | | | | N | lo choi | ice ^{(Note} | 1) | | |
|------------------|---------------|-------------------|---------------------|-------------------------------|-------|------------------|----------------------|-------------------|---------------------|-------------------------------|--------------|------------------|---------------|-------------------|----------------------|-------------------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | Aggregate total |
| | 1 | | 1 | | | | | | r | | | | | | 1 | | 1 | 84 |
| 0 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2 | 2 | 5 | 3 | 0 | 12 | 1 | 2 | 5 | 0 | 1 | 9 3 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 3 | 2 | 0 | 0 | 0 | 6 | 0 | <u>1</u> 0 | 1 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | <u>4</u> 7 |
| 1 | 1 | 0 | 2 | 0 | 4 | 1 | <u>°</u> | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 1 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 2 | 5 | 5 | 0 | 12 | 1 | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2 | 3 | 2 | 0 | 0 | 7 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| | ,, | | , | | | | | | | | | | | | , | | , | 385 |
| 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3 | 3 | 2 | 3 | 0 | 11 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 7 | 10 | 2 10 | 0 | 0 | 33 | 1 | <u>1</u> <u>1</u> | <u>0</u> 2 | 0 | 0 | 2 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 51 |
| 0 | 1 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 2 | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4 | 5 | 3 | 3 | 0 | 15 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 2 | 2 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 8 | 9 | 9 | 7 | 0 | 33 | 2 | 5 | 2 | 2 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 28 | 32 | 37 | 16 | 0 | 113 | 5 | 7 | 10 | 7 | 0 | 29 | 1 | 0 | 0 | 0 | 0 | 1 | 227 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 2 | 2 | 3 | 0 | 8 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 6 | 2 | 3 | 1 | 0 | 12 | 3 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |

| | | | De | ath | | | | | Hi | gh | | |
|---|---------------------|---------------|----------------------|------------------------|-------------------------------|----------|---------------------|---------------|----------------------|------------------------|-------------------------------|-------|
| Details of Event × Potential of Residual Disability | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total |
| Related to use/management of drainage tube o | r othe | r tube | | | | | | | | | | |
| Infusion leakage | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Self-removal | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spontaneous dislodgment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Disconnection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| Blockage | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Breakage/severance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong connection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Air bubble in tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Use/management of drainage tube or other tube, others | 1 | 2 | 1 | 2 | 0 | 6 | 1 | 1 | 3 | 1 | 0 | 6 |
| Related to examination | | , | | , | | . | | | | | , | |
| Patient misidentification (examination) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrong examination/evaluation technique | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Error in sample collection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Sample misidentification (examination) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lost sample | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sample contamination | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Management of analytical device/ equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Preparation of examination device/ equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Result reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Examination, others | 2 | 0 | 1 | 0 | 0 | 3 | 1 | 2 | 3 | 1 | 0 | 7 |
| Related to nursing care | | | , | , | | , | | , | . | | , | |
| Fall | 2 | 1 | 3 | 2 | 0 | 8 | 6 | 5 | 5 | 8 | 0 | 24 |
| Fall from bed | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 |
| Collision | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Restraint | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Severe decubitus (involving muscle layer, Stage III/IV) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| Aspiration (nursing care) | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 5 | 6 | 0 | 12 |
| Accidental ingestion (nursing care) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nursing care/recuperation, others | 2 | 5 | 1 | 6 | 0 | 14 | 4 | 5 | 4 | 2 | 0 | 15 |
| Transportation, others | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| Going out/staying out without notice | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Self medication, others | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meal/nutrition, others | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 10 | 7 | 9 | 5 | 0 | 31 | 8 | 8 | 3 | 3 | 0 | 22 |
| No choice ^(Note 1) | 9 | 8 | 6 | 2 | 0 | 25 | 1 | 2 | 4 | 4 | 0 | 11 |
| Total | 44 | 38 | 32 | 29 | 0 | 143 | 45 | 54 | 56 | 44 | 0 | 199 |

(Note 1) "No choice" means no "details of event" or "potential of residual disability" was selected.

| | | Lo | OW | | | | | Unkı | nown | | No choice(Note 1) | | | | | | | |
|------------------|---------------|-------------------|---------------------|-------------------------------|---------------|------------------|---------------|-------------------|---------------------|-------------------------------|-------------------|------------------|---------------|-------------------|---------------------|-------------------------------|-------|-----------------|
| January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | January to March | April to June | July to September | October to December | No choice ^(Note 1) | Total | Aggregate total |
| | | | | | | | | | | | | | | | | | | 83 |
| 0 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 2 | 2 | 0 | 1 | 0 | 5 | 5 | 0 | 1 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | <u>0</u> 1 | 0 | 2 | 0 | <u>0</u> 5 | 2 | <u>0</u> 1 | 1 2 | 0 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 11 |
| 2 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 7 | 6 | 4 | 0 | 22 | 3 | 2 | 2 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| | <u> </u> | | | | | | | | | | | | | | | | | 69 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | 1 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 6 | 12 | 12 | 4 | 0 | 34 | 3 | 2 | 2 | 3 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| | | | 1 | | | | | | <u>-</u> | | | I | I | I | 1 | [| | 363 |
| 35 | 30 | 38 | 31 | 0 | 134 | 3 | 4 | 8 | 3 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| 1 | 3 | <u>4</u> 1 | 5 | 0 | 16 3 | 0 | <u>1</u> 1 | 1 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 22 4 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - 1 |
| 4 | 5 | 6 | 4 | 0 | <u>1</u> | 0 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 0 | 4 | 3 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 9 | 10 | 13 | 15 | 0 | 47 | 2 | 2 | 5 | 3 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 88 |
| 1 | 0 | 1 | 2 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 1 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 | 0 | 2 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 9 | 10 | 18 | 9 | 0 | 46 | 6 | 8 | 11 | 6 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 130 |
| 6 | 7 | 16 | 12 | 0 | 41 | 5 | 4 | 5 | 4 | 0 | 18 | 1 | 0 | 0 | 0 | 0 | 1 | 96 |
| 161 | 186 | 212 | 149 | 0 | 708 | 55 | 51 | 67 | 37 | 1 | 211 | 2 | 0 | 0 | 0 | 0 | 2 | 1,263 |

Fig. II-1-59 Place of Occurrence and Summary of Event

| | | | Orde | ering | | | | | Dr | ug | | | | Bloc | od tra | nsfu | sion | | | | Treat | | | _ | Medical equipment, etc. Medical device | | | | tc. | |
|--|------------------|---------------|-------------------|---------------------|--------------------|-------|------------------|---------------|-------------------|---------------------|-------------------|-------|------------------|---------------|-------------------|---------------------|-------------------|-------|------------------|---------------|-------------------|---------------------|-------------------|-------|---|---------------|-------------------|---------------------|-------------------|-------|
| Place of occurrence × Summary of event | January to March | April to June | July to September | October to December | No choice (Note 1) | Total | January to March | April to June | July to September | October to December | No choice(Note 1) | Total | January to March | April to June | July to September | October to December | No choice(Note 1) | Total | January to March | April to June | July to September | October to December | No choice(Note 1) | Total | January to March | April to June | July to September | October to December | No choice(Note 1) | Total |
| Outpatient examination room | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 10 | 1 | 8 | 0 | 22 | 1 | 1 | 0 | 0 | 0 | 2 |
| Outpatient treatment room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Outpatient lobby | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Emergency room | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Critical care center | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Patient room | 3 | 0 | 1 | 1 | 0 | 5 | 10 | 7 | 16 | 6 | 0 | 39 | 1 | 1 | 0 | 1 | 0 | 3 | 25 | 23 | 28 | 8 | 0 | 84 | 2 | 0 | 1 | 4 | 0 | 7 |
| Ward treatment room | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operation room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 1 | 41 | 48 | 52 | 38 | 0 | 179 | 6 | 3 | 6 | 2 | 0 | 17 |
| ICU | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 1 | 4 | 5 | 2 | 0 | 0 | 11 | 1 | 0 | 0 | 1 | 0 | 2 |
| CCU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| NICU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Examination room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 3 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |
| Catheterizatio n laboratory | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 8 | 5 | 4 | 0 | 21 | 1 | 0 | 1 | 0 | 0 | 2 |
| Radiotherapy room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Radiography room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 4 | 2 | 0 | 11 | 1 | 0 | 0 | 0 | 0 | 1 |
| Radioactive scanning room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dialysis room | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Delivery room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rehabilitation room | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Restroom | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hallway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bathroom | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stairway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 2 | 3 | 1 | 13 | 0 | 2 | 0 | 0 | 0 | 2 | 9 | 10 | 14 | 8 | 0 | 41 | 2 | 1 | 1 | 1 | 0 | 5 |
| No choice(Note 1) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 3 | 2 | 5 | 1 | 0 | 11 | 14 | 22 | 22 | 13 | 1 | 72 | 2 | 3 | 0 | 3 | 0 | 8 | 101 | 121 | 127 | 80 | 0 | 429 | 14 | 5 | 9 | 8 | 0 | 36 |

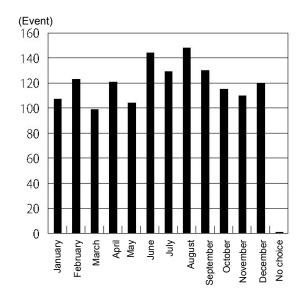
(Note 1) "No choice" means no "place of occurrence" or "summary of event" was selected.

[5] Details of Reports from Participating Medical Institutions (by Month of Report)

The tabulation of reports made by registered medical institutions (medical institutions subject to reporting requirement and voluntarily participating medical institutions) between January 1 and December 31, 2006 is shown below.

Fig. II-1-60 Month of Occurrence

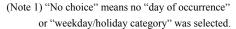
| Month of | Month of occurrence | | | | |
|----------|-------------------------------|-----|--|--|--|
| | January | 107 | | | |
| | February | 123 | | | |
| | March | 99 | | | |
| | April | 121 | | | |
| | May | 104 | | | |
| | June | 144 | | | |
| 2006 | July | 129 | | | |
| | August | 148 | | | |
| | September | 130 | | | |
| | October | 115 | | | |
| | November | 110 | | | |
| | December | 120 | | | |
| | No choice ^(Note 1) | 1 | | | |
| То | 1,451 | | | | |



(Note 1) "No choice" means no "month of occurrence" was selected.

Fig. II-1-61 Day of Occurrence and Weekday/Holiday Category

| Day of occurrence | Weekday | Holiday | No choice (Note 1) | Total | |
|-------------------|---------|---------|-----------------------|-------|--|
| Mon. | 212 | 11 | 1 | 224 | |
| Tue. | 263 | 1 | 1 | 265 | |
| Wed. | 219 | 2 | 0 | 221 | |
| Thu. | 253 | 0 | 0 | 253 | |
| Fri. | 234 | 6 | 2 | 242 | |
| Sat. | 43 | 86 | 0 | 129 | |
| Sun. | 0 | 112 | 1 | 113 | |
| No choice(Note 1) | 1 | 0 | 3 | 4 | |
| Total | 1,225 | 218 | 8 | 1,451 | |



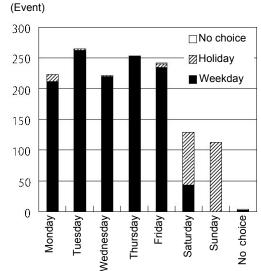
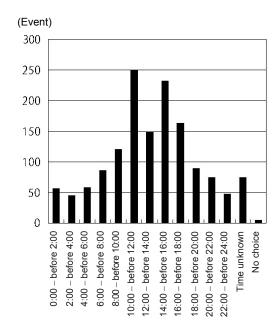


Fig. II-1-62 Time of Occurrence

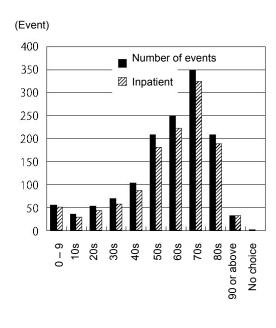
| Time of occurrence | Number of events |
|-------------------------------|------------------|
| 0:00 – before 2:00 | 57 |
| 2:00 – before 4:00 | 45 |
| 4:00 – before 6:00 | 58 |
| 6:00 – before 8:00 | 86 |
| 8:00 – before 10:00 | 121 |
| 10:00 - before 12:00 | 249 |
| 12:00 – before 14:00 | 149 |
| 14:00 – before 16:00 | 232 |
| 16:00 – before 18:00 | 164 |
| 18:00 – before 20:00 | 89 |
| 20:00 – before 22:00 | 74 |
| 22:00 - before 24:00 | 48 |
| Time unknown | 74 |
| No choice ^(Note 1) | 5 |
| Total | 1,451 |



(Note 1) "No choice" means no "time of occurrence" was selected.

Fig. II-1-63 Patient Age^(Note 1)

| Number of patients | Patient age | Number of events | Inpatient |
|----------------------------------|-------------|------------------|-----------|
| | 0 to 9 | 55 | 51 |
| | 10s | 35 | 29 |
| | 20s | 53 | 44 |
| | 30s | 70 | 57 |
| | 40s | 103 | 87 |
| | 50s | 208 | 181 |
| 1 patient | 60s | 248 | 223 |
| | 70s | 349 | 325 |
| | 80s | 209 | 188 |
| | 90 or above | 33 | 32 |
| | No choice | 1 | 0 |
| | Total | 1,364 | 1,217 |
| 2 patients or more | Total | 23 | 15 |
| No choice ^(Note 2) | Total | 64 | 34 |
| Aggrega | ate total | 1,451 | 1,266 |



(Note 1) This item is the number of reports in which "1 patient" was selected in the checkbox of "Number of Patients" and does not include the number of reports in which "2 patients or more" was selected. The tabulation is not conducted because the selection of "2 patients or more" becomes described information, and the number of patients and patient age are not always listed.

(Note 2) "No choice" means no "patient age" was selected.

Fig. II-1-64 Sex of Patients

| Number of patients | Sex | Number of events |
|--------------------|-------------------------------|------------------|
| 1 patient | Male | 700 |
| | Female | 653 |
| | No choice ^(Note 1) | 11 |
| | Total | 1,364 |
| 2 patients or more | Total | 23 |
| No choice | Total | 64 |
| Aggre | 1,451 | |

(Note 1) "No choice" means no "Sex of Patients" was selected.

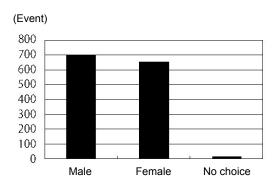


Fig. II-1-65 Inpatient/Outpatient Status and Duration of Hospital Stay

| Inpatio | Number of events | | | | |
|------------|-------------------------------|-------|--|--|--|
| | Duration: 0 to 31 days | 849 | | | |
| Inpatient | Duration: 32 days or longer | 383 | | | |
| - | No choice ^(Note 1) | 34 | | | |
| | Total | 1,266 | | | |
| | Initial visit | 11 | | | |
| Outpatient | Follow-up visit | 133 | | | |
| | Total | 144 | | | |
| 1 | No choice(Note 1) | | | | |
| A | 1,451 | | | | |

(Note 1) "No choice" means no "inpatient/outpatient status" or "duration of hospitalization" was selected.

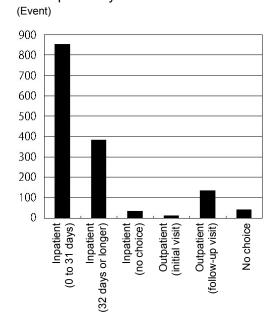


Fig. II-1-66 Person Who Identified Event

| Person who identified event | Number of events |
|-------------------------------|------------------|
| Medical staff | 1,216 |
| Patient himself/herself | 56 |
| Patient's family/caregiver | 31 |
| Other patient | 41 |
| Others | 96 |
| No choice ^(Note 1) | 11 |
| Total | 1,451 |

(Note 1) "No choice" means no "person who identified event" was selected.

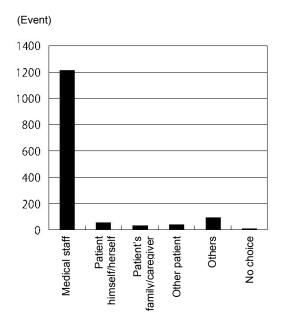
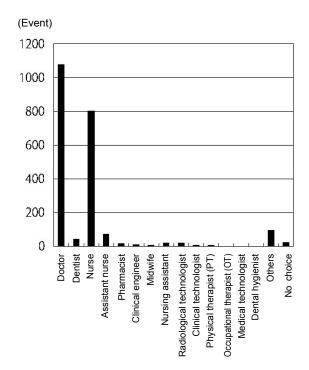


Fig. II-1-67 Job Title of Person Involved

| Job title of person involved (Note 1) | Number of events |
|---------------------------------------|------------------|
| Doctor | 1,077 |
| Dentist | 42 |
| Nurse | 803 |
| Assistant nurse | 72 |
| Pharmacist | 15 |
| Clinical engineer | 10 |
| Midwife | 3 |
| Nursing assistant | 18 |
| Radiological technologist | 18 |
| Clinical technologist | 7 |
| Physical therapist (PT) | 6 |
| Occupational therapist (OT) | 2 |
| Medical technologist | 0 |
| Dental hygienist | 0 |
| Others | 97 |
| No choice ^(Note 2) | 25 |
| Total | 2,195 |



(Note 1) Person involved is a person determined by the medical institution to have been involved in the event occurred; more than 1 person may have been involved.

(Note 2) "No choice" means no "job title of person involved" was selected.

Fig. II-1-68 Summary of Event

| | January to D | ecember, 2006 |
|-------------------------------|------------------|---------------|
| Summary of event | Number of events | % |
| Ordering | 15 | 1.0 |
| Drug | 92 | 6.3 |
| Blood transfusion | 8 | 0.6 |
| Treatment/procedure | 491 | 33.8 |
| Medical equipment, etc. | 127 | 9.0 |
| Medical device | 40 | 2.8 |
| Drainage tube or other tube | 81 | 5.6 |
| Dental equipment | 6 | 0.4 |
| Examination/test | 83 | 5.7 |
| Nursing care | 391 | 26.9 |
| Others | 243 | 16.7 |
| No choice ^(Note 1) | 1 | 0.1 |
| Total | 1,451 | 100.0 |

(Note 1) "No choice" means no "summary of event" was selected.

Fig. II-1-69 Potential of Residual Disability

| Dadasstin of Davids at Disability (Note 1) | January to December, 2006 | | | | | |
|--|---------------------------|-------|--|--|--|--|
| Potential of Residual Disability ^(Note 1) | Number | % | | | | |
| Death | 176 | 12.1 | | | | |
| High | 225 | 15.5 | | | | |
| Low | 819 | 56.4 | | | | |
| Unknown ^(Note 2) | 227 | 15.6 | | | | |
| No choice ^(Note 3) | 4 | 0.3 | | | | |
| Total | 1,451 | 100.0 | | | | |

⁽Note 1) "Potential of residual disability" is not necessarily associated with occurrence of event or negligence.

Fig. II-1-70 Place of Occurrence

| | Innuam to D | h 2006 |
|-------------------------------|-------------|---------------|
| Place of Occurrence | - | ecember, 2006 |
| | Number | % |
| Outpatient examination room | 41 | 2.8 |
| Outpatient treatment room | 15 | 1.0 |
| Outpatient lobby | 1 | 0.1 |
| Emergency room | 16 | 1.1 |
| Critical care center | 13 | 0.9 |
| Patient room | 611 | 42.1 |
| Ward treatment room | 18 | 1.2 |
| Operation room | 237 | 16.3 |
| ICU | 32 | 2.2 |
| CCU | 4 | 0.3 |
| NICU | 5 | 0.3 |
| Examination room | 23 | 1.6 |
| Catheterization laboratory | 46 | 3.2 |
| Radiotherapy room | 10 | 0.7 |
| Radiography room | 35 | 2.4 |
| Radioactive scanning room | 1 | 0.1 |
| Dialysis room | 14 | 1.0 |
| Delivery room | 4 | 0.3 |
| Rehabilitation room | 6 | 0.4 |
| Restroom | 32 | 2.2 |
| Hallway | 52 | 3.6 |
| Bathroom | 22 | 1.5 |
| Stairway | 4 | 0.3 |
| Unknown | 17 | 1.2 |
| Others | 191 | 13.2 |
| No choice ^(Note 1) | 1 | 0.1 |
| Total | 1,451 | 100.0 |

(Note 1) "No choice" means no "place of occurrence" was selected.

⁽Note 2) "Unknown" includes indefinite outcome at the time of reporting (within 2 weeks) and events of warning that did not affect patients' conditions in any way.

⁽Note 3) "No choice" means no "Potential of residual disability" was selected.

Fig. II-1-71 Cause of Event

| Cause of Event (Note 1) | Number | % |
|--|--------|-------|
| Neglect to check | 406 | 15.3 |
| Neglect to observe | 342 | 12.9 |
| Misjudgment | 347 | 13.1 |
| Lack of knowledge | 115 | 4.3 |
| Deficiency of technique/skill | 126 | 4.7 |
| Delayed reporting | 35 | 1.3 |
| Under unusual physical condition | 65 | 2.4 |
| Under unusual psychological condition | 28 | 1.1 |
| System failure | 54 | 2.0 |
| Inadequate coordination | 159 | 6.0 |
| Inadequate documentation | 38 | 1.4 |
| Similarity in patient's appearance or name | 2 | 0.1 |
| Busy working condition | 72 | 2.7 |
| Problem in environment | 83 | 3.1 |
| Problem in the drug | 15 | 0.6 |
| Problem in medical device | 46 | 1.7 |
| Problem in other items | 30 | 1.1 |
| Problem in facility | 58 | 2.2 |
| Problem in education/training | 109 | 4.1 |
| Lack of explanation | 111 | 4.2 |
| Others | 400 | 15.1 |
| No choice ^(Note 2) | 16 | 0.6 |
| Total | 2,657 | 100.0 |

(Note 1) "Cause of event" may be more than one.

(Note 2) "No choice" means no "Cause of event" was selected.

Fig. II-1-72 Clinical Department

| Clinical Department (Note 1) | Number | % |
|--------------------------------------|--------|-------|
| Internal medicine | 127 | 7.2 |
| Anesthesiology | 45 | 2.6 |
| Cardiovascular medicine | 94 | 5.4 |
| Neurology | 40 | 2.3 |
| Respiratory tract medicine | 80 | 4.6 |
| Gastrointestinal medicine | 110 | 6.3 |
| Hematology | 31 | 1.8 |
| Circulatory surgery | 24 | 1.4 |
| Allergy | 1 | 0.1 |
| Rheumatism | 9 | 0.1 |
| Pediatrics | 59 | 3.4 |
| | 126 | 7.2 |
| General surgery Orthopedics | 147 | 8.4 |
| Plastic surgery | 18 | 1.0 |
| Cosmetic surgery | 0 | 0.0 |
| | 91 | 5.2 |
| Neurosurgery Posniratory surgery | 41 | 2.3 |
| Respiratory surgery | 58 | 3.3 |
| Cardiovascular surgery | 9 | 0.5 |
| Pediatric surgery Pain clinic | 3 | 0.3 |
| | 20 | 1.1 |
| Dermatology | 56 | 3.2 |
| Urology Venereology | 0 | 0.0 |
| | 2 | 0.0 |
| Proctology Cynocology/Obstatries | 46 | 2.6 |
| Gynecology/Obstetrics Obstetrics | 9 | 0.5 |
| | 21 | 1.2 |
| Gynecology On the language | 33 | 1.9 |
| Ophthalmology Otolaryngology | 47 | 2.7 |
| Psychosomatic medicine | 1 | 0.1 |
| Psychiatry Psychiatry | 105 | 6.0 |
| Rehabilitation | | |
| Radiology | 45 | 2.6 |
| Dentistry | 13 | 0.7 |
| Orthodontics | 2 | 0.7 |
| Pediatric dentistry | 0 | 0.1 |
| Dental/oral surgery | 22 | 1.3 |
| Unknown | 1 | 0.1 |
| | 201 | 11.5 |
| Others No choice ^(Note 2) | 7 | 0.4 |
| | 1,755 | |
| Total | 1,/33 | 100.0 |

(Note 1) More than one "clinical department" may have been involved in one event. (Note 2) "No choice" means no "clinical department" was selected.

Fig. II-1-73 Years of Experience of Person Involved by Job Title (Doctor, Dentist, Nurse, Pharmacist)

| Job title of person involved (Note 1) × Years of experience | 0 year | 1 year | 2 years | 3 years | 4 years | 5 years | 6 years | 7 years | 8 years | 9 years | 10 years | 11 to 20 years | 21 to 30 years | 30 years or longer | No choice ^(Note 2) | Total |
|--|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------------|----------------|--------------------|-------------------------------|-------|
| Doctor | 52 | 17 | 32 | 47 | 66 | 46 | 57 | 55 | 56 | 50 | 62 | 345 | 125 | 35 | 32 | 1,077 |
| Dentist | 5 | 3 | 3 | 3 | 4 | 1 | 1 | 1 | 2 | 0 | 1 | 12 | 4 | 2 | 0 | 42 |
| Nurse | 88 | 76 | 62 | 69 | 48 | 44 | 41 | 25 | 20 | 25 | 17 | 160 | 91 | 20 | 17 | 803 |
| Pharmacist | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 4 | 3 | 1 | 0 | 15 |

⁽Note 1) Person involved is a person determined by the medical institution to have been involved in the event occurred; more than 1 person may have been involved.

Fig. II-1-74 Number of Years Person Involved (Doctor, Dentist, Nurse, Pharmacist) Has Been Working at Current Department

| Job title of person involved ^(Note 1) × Number of years at current department | 0 year | 1 year | 2 years | 3 years | 4 years | 5 years | 6 years | 7 years | 8 years | 9 years | 10 years | 11 to 20 years | 21 to 30 years | 30 years or longer | No choice ^(Note 2) | Total |
|--|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------------|----------------|--------------------|-------------------------------|-------|
| Doctor | 257 | 137 | 83 | 80 | 74 | 61 | 46 | 42 | 29 | 23 | 38 | 134 | 34 | 3 | 36 | 1,077 |
| Dentist | 7 | 5 | 5 | 1 | 3 | 3 | 2 | 1 | 0 | 1 | 1 | 7 | 5 | 0 | 1 | 42 |
| Nurse | 206 | 189 | 140 | 92 | 39 | 29 | 21 | 12 | 5 | 10 | 10 | 23 | 3 | 0 | 24 | 803 |
| Pharmacist | 3 | 5 | 1 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 15 |

⁽Note 1) Person involved is a person determined by the medical institution to have been involved in the event occurred; more than 1 person may have been involved.

(Note 2) "No choice" means no "Number of years at current department" was selected.

⁽Note 2) "No choice" means no "years of experience" was selected.

Fig. II-1-75 Working Hours (in week previous to event) of Person Involved (Doctors)

| Working hours | January to December, 2006 |
|-----------------------|------------------------------|
| >0 to 8 hours | 16 |
| >8 to 16 hours | 9 |
| >16 to 24 hours | 4 |
| >24 to 32 hours | 23 |
| >32 to 40 hours | 67 |
| >40 to 48 hours | 297 |
| >48 to 56 hours | 182 |
| >56 to 64 hours | 163 |
| >64 to 72 hours | 106 |
| >72 to 80 hours | 31 |
| >80 to 88 hours | 44 |
| >88 to 96 hours | 13 |
| 96 hours or more | 35 |
| Unknown | 14 |
| No choice | 75 |
| Total | 1,077 |
| Average working hours | 52.9 |

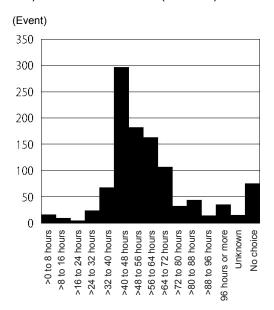


Fig. II-1-76 Working Hours (in week previous to event) of Person Involved (Nurses)

| Working hours | January to December, 2006 |
|-----------------------|------------------------------|
| >0 to 8 hours | 13 |
| >8 to 16 hours | 6 |
| >16 to 24 hours | 15 |
| >24 to 32 hours | 69 |
| >32 to 40 hours | 221 |
| >40 to 48 hours | 357 |
| >48 to 56 hours | 74 |
| >56 to 64 hours | 26 |
| >64 to 72 hours | 0 |
| >72 to 80 hours | 0 |
| >80 to 88 hours | 0 |
| >88 to 96 hours | 0 |
| 96 hours or more | 0 |
| Unknown | 1 |
| No choice | 21 |
| Total | 803 |
| Average working hours | 37.5 |

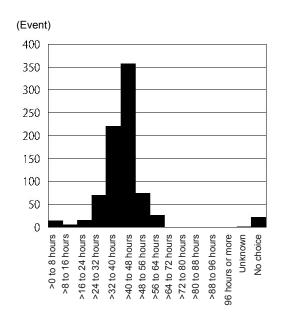


Fig. II-1-77 Number of Night Shifts (in week previous to event) of Person Involved (Doctors)

| Number of night shifts | January to December, 2006 |
|--|------------------------------|
| Zero | 446 |
| 1 time | 328 |
| 2 times | 87 |
| 3 times | 23 |
| 4 times | 7 |
| 5 times | 2 |
| 6 times | 2 |
| 7 times | 1 |
| Unknown | 114 |
| No choice | 67 |
| Total | 1,077 |
| Average number of night shifts (not including unknown/no choice) | 0.70 |

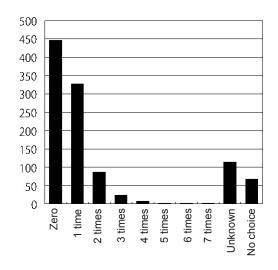


Fig. II-1-78 Number of Night Shifts (in week previous to event) of Person Involved (Nurses)

| Number of night shifts | January to December, 2006 |
|--|------------------------------|
| Zero | 166 |
| 1 time | 224 |
| 2 times | 274 |
| 3 times | 77 |
| 4 times | 14 |
| 5 times | 1 |
| 6 times | 0 |
| 7 times | 0 |
| Unknown | 29 |
| No choice | 18 |
| Total | 803 |
| Average number of night shifts (not including unknown/no choice) | 1.41 |

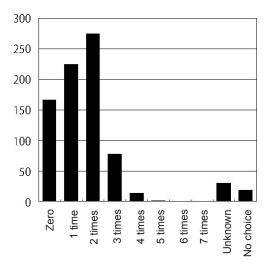


Fig. II-1-79 Cause of Event and Summary of Event

| | | | - u | | | Medica | | | | | | |
|---|----------|------|-------------------|-------------------------|----------------|--------------------------------|---------------------|------------------|--------------|--------|--------------------|-------|
| Cause of Event ^(Note 1) × Summary of Event | Ordering | Drug | Blood transfusion | Treatment/ procedure | Medical device | Drainage tube or other tube | Dental equipment | Examination/test | Nursing care | Others | No choice (Note 2) | Total |
| Neglect to check | 14 | 65 | 5 | 163 | 17 | 28 | 2 | 19 | 59 | 34 | 0 | 406 |
| Neglect to observe | 0 | 13 | 0 | 80 | 7 | 30 | 0 | 8 | 158 | 46 | 0 | 342 |
| Misjudgment | 5 | 16 | 1 | 122 | 9 | 26 | 0 | 14 | 114 | 39 | 1 | 347 |
| Lack of knowledge | 4 | 22 | 0 | 44 | 6 | 10 | 0 | 3 | 17 | 9 | 0 | 115 |
| Deficiency of technique/skill | 3 | 4 | 0 | 61 | 1 | 12 | 0 | 11 | 27 | 7 | 0 | 126 |
| Delayed reporting | 1 | 1 | 1 | 10 | 1 | 3 | 0 | 1 | 13 | 4 | 0 | 35 |
| Under unusual physical condition | 0 | 2 | 0 | 24 | 2 | 2 | 0 | 4 | 19 | 12 | 0 | 65 |
| Under unusual psychological condition | 1 | 3 | 1 | 8 | 1 | 1 | 0 | 1 | 5 | 7 | 0 | 28 |
| System failure | 1 | 9 | 1 | 19 | 3 | 3 | 0 | 6 | 4 | 8 | 0 | 54 |
| Inadequate coordination | 7 | 16 | 3 | 51 | 2 | 3 | 0 | 6 | 52 | 19 | 0 | 159 |
| Inadequate documentation | 1 | 7 | 1 | 6 | 1 | 1 | 0 | 2 | 13 | 6 | 0 | 38 |
| Similarity in patient's appearance or name | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Busy working condition | 0 | 10 | 0 | 18 | 0 | 2 | 0 | 3 | 26 | 13 | 0 | 72 |
| Problem in environment | 0 | 3 | 1 | 10 | 1 | 2 | 0 | 1 | 47 | 18 | 0 | 83 |
| Problem in the drug | 1 | 6 | 1 | 4 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 15 |
| Problem in medical device | 0 | 0 | 1 | 11 | 18 | 6 | 2 | 2 | 2 | 4 | 0 | 46 |
| Problem in other items | 0 | 0 | 0 | 11 | 3 | 2 | 0 | 0 | 8 | 6 | 0 | 30 |
| Problem in facility | 1 | 0 | 0 | 4 | 1 | 0 | 0 | 1 | 29 | 22 | 0 | 58 |
| Problem in education/training | 4 | 16 | 1 | 23 | 3 | 6 | 0 | 8 | 33 | 15 | 0 | 109 |
| Lack of explanation | 0 | 1 | 0 | 26 | 3 | 0 | 0 | 6 | 60 | 15 | 0 | 111 |
| Others | 0 | 13 | 2 | 149 | 9 | 11 | 2 | 22 | 82 | 110 | 0 | 400 |
| No choice ^(Note 2) | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 16 |
| Total | 43 | 208 | 19 | 855 | 88 | 148 | 6 | 120 | 771 | 398 | 1 | 2,657 |

(Note 1) "Cause of event" may be more than one.

(Note 2) "No choice" means no "Cause of event" or "summary of event" was selected.

Fig. II-1-80 Situation and Potential of Residual Disability

| Situation × Potential of Residual Disability | Death | High | Low | Unknown | No choice ^(Note 1) | Total |
|---|-------|------|-----|---------|----------------------------------|-------|
| Related to drug | | | | | | 108 |
| Drug preparation | 0 | 1 | 7 | 0 | 0 | 8 |
| Subcutaneous/intramuscular injection | 0 | 0 | 4 | 0 | 2 | 6 |
| Intravenous injection | 2 | 3 | 12 | 0 | 5 | 22 |
| Arterial injection | 0 | 0 | 1 | 0 | 0 | 1 |
| Peripheral intravenous drop | 1 | 2 | 15 | 0 | 5 | 23 |
| Central venous injection | 1 | 1 | 3 | 0 | 3 | 8 |
| Oral administration | 1 | 2 | 13 | 0 | 3 | 19 |
| Nose drop/eye drop/ear drop | 0 | 0 | 2 | 0 | 0 | 2 |
| Other drug prescription/administration | 2 | 3 | 3 | 0 | 1 | 9 |
| Oral drug dispensing/management | 0 | 0 | 3 | 0 | 3 | 6 |
| Injection dispensing/management | 0 | 0 | 0 | 0 | 1 | 1 |
| Dispensing/management, others | 1 | 0 | 1 | 0 | 1 | 3 |
| Related to blood transfusion | | | | | | 7 |
| Blood test | 0 | 0 | 1 | 0 | 0 | 1 |
| Blood transfusion | 1 | 1 | 2 | 0 | 2 | 6 |
| Blood transfusion, others | 0 | 0 | 0 | 0 | 0 | 0 |
| Related to treatment/procedure | | | | | • | 437 |
| Craniotomy | 2 | 4 | 6 | 0 | 2 | 14 |
| Thoracotomy | 1 | 8 | 7 | 0 | 4 | 20 |
| Cardiotomy | 2 | 2 | 6 | 0 | 2 | 12 |
| Laparotomy | 6 | 7 | 31 | 0 | 3 | 47 |
| Extremities | 1 | 3 | 5 | 0 | 0 | 9 |
| Endoscopic surgery | 2 | 9 | 16 | 1 | 2 | 30 |
| Other surgery | 1 | 13 | 29 | 0 | 12 | 55 |
| Preparation for surgery | 0 | 1 | 0 | 0 | 0 | 1 |
| Preoperative procedure | 1 | 1 | 2 | 0 | 0 | 4 |
| Postoperative procedure | 4 | 3 | 8 | 0 | 2 | 17 |
| Surgery, others | 2 | 8 | 17 | 0 | 5 | 32 |
| General anesthesia (inhalation anesthesia and intravenous anesthesia) | 0 | 0 | 2 | 0 | 2 | 4 |
| Local anesthesia | 0 | 1 | 1 | 0 | 0 | 2 |
| Inhalation anesthesia | 0 | 0 | 0 | 0 | 1 | 1 |
| Intravenous anesthesia | 0 | 1 | 0 | 0 | 0 | 1 |
| Vertebral/epidural anesthesia | 0 | 0 | 2 | 0 | 1 | 3 |
| Anesthesia, others | 0 | 0 | 0 | 0 | 0 | 0 |
| Caesarean section | 1 | 1 | 4 | 0 | 0 | 6 |
| Delivery and artificial abortion, others | 2 | 3 | 4 | 0 | 0 | 9 |
| Blood purification (including hemodialysis) | 2 | 0 | 8 | 0 | 1 | 11 |
| IVR (ex. angiocatheter) | 2 | 4 | 15 | 0 | 5 | 26 |
| Radiotherapy | 0 | 0 | 3 | 0 | 2 | 5 |
| Rehabilitation | 0 | 0 | 3 | 0 | 0 | 3 |
| Invasive dental treatment | 0 | 0 | 1 | 0 | 0 | 1 |
| Endoscopic treatment | 5 | 4 | 15 | 0 | 3 | 27 |
| Treatment, others | 0 | 8 | 21 | 0 | 8 | 37 |

| Situation × Potential of Residual Disability | Death | High | Low | Unknown | No choice ^(Note 1) | Total |
|---|-------|---------------|-----|------------|----------------------------------|---------------|
| Central venous line | 4 | 0 | 13 | 0 | 4 | 21 |
| Peripheral venous line | 1 | 1 | 4 | 1 | 0 | 7 |
| Catheter for blood purification | 0 | 0 | 1 | 0 | 1 | 2 |
| Feeding tube (NG, ED) | 0 | 2 | 0 | 0 | 0 | 2 |
| Urethral catheter | 0 | 0 | 0 | 0 | 0 | 0 |
| Procedure related to drainage | 0 | 2 | 3 | 0 | 2 | 7 |
| Wound care | 1 | 2 | 0 | 0 | 0 | 3 |
| Tube placement, others | 1 | 0 | 9 | 0 | 2 | 12 |
| Tracheal intubation | 0 | 1 | 1 | 0 | 0 | 2 |
| Tracheotomy | 1 | 0 | 0 | 0 | 0 | 1 |
| Cardiac compression | 0 | 0 | 0 | 0 | 0 | 0 |
| Oxygen therapy | 0 | 0 | 2 | 0 | 0 | 2 |
| Emergency procedure, others | 1 | 0 | 0 | 0 | 0 | 1 |
| elated to use/management of medical equipment (device) | | | | l | | 47 |
| Mechanical ventilator | 2 | 2 | 2 | 0 | 1 | <u></u> 7 |
| Oxygen therapy equipment | 0 | <u>-</u> 1 | 2 | 0 | 2 | <u>-</u> 5 |
| Oxygenator | 0 | 0 | 0 | 0 | 0 | 0 |
| Defibrillator | 0 | 0 | 0 | 0 | 0 | 0 |
| Pace maker | 1 | 0 | 0 | 0 | 0 | <u>*</u> 1 |
| Infusion/transfusion pump | 0 | 1 | 2 | 0 | 1 | <u>:</u> 4 |
| Blood purification device | 0 | 0 | 2 | 0 | 0 | <u>:</u> |
| ECG, blood pressure monitor | 0 | 0 | 0 | 0 | 0 | 0 |
| Pulse oxymeter | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | | } <u>∨</u> | | 0 |
| Use/management of medical equipment (device), others | 2 | 3 | 20 | 0 | 3 | 28 |
| elated to use/management of drainage tube or other tube | | | | l | | 92 |
| Central venous line | 4 | 1 | 5 | 0 | 6 | 16 |
| Peripheral venous line | 0 | 0 | 0 | 0 | 0 | 0 |
| Tracheal tube | 1 | 2 | 4 | 0 | 1 | 8 |
| Tracheal cannula | 2 | 1 | 2 | 0 | 4 | 9 |
| Feeding tube (NG, ED) | 1 | 1 | 4 | 0 | 2 | 8 |
| Urethral catheter | 0 | 0 | 2 | 0 | 1 | 3 |
| Chest drainage tube | 0 | 1 | 7 | 0 | 4 | 12 |
| Abdominal drainage tube | 0 | 0 | 3 | 0 | 1 | 4 |
| Ventricular/cisternal drainage tube | 0 | 1 | 0 | 0 | 0 | <u>7</u> 1 |
| Subcutaneous continuous suction drainage tube | 0 | 0 | 1 | 0 | 0 | <u>1</u> 1 |
| , | 0 | 0 | 0 | 0 | | |
| Epidural catheter | | | | { | 1 | <u>l</u> |
| Catheter/line for blood purification | 1 | 1 | 1 | 0 | 0 | 3 |
| Use/management of drainage tube or other tube, others | 0 | 4 | 14 | 0 | 8 | 26 |
| elated to examination | | | | <u> </u> | <u> </u> | 78 |
| Blood drawing | 1 | 1 | 5 | 0 | 1 | 8 |
| Sample collection, others | 0 | 0 | 4 | 0 | 3 | <u>-</u> 7 |
| General imaging | 0 | 0 | 5 | 0 | 0 | <u>'</u> 5 |
| MRI | 0 | 1 | 2 | 0 | 2 | 5 5 |
| Angiocatheter-aided imaging | 1 | 1 | 6 | 0 | 0 | |
| | | 1 | 1 0 | ı | U | 8 |

| Situation × Potential of Residual Disability | Death | High | Low | Unknown | No choice ^(Note 1) | Total |
|--|-------|------|-----|---------|----------------------------------|-------|
| Imaging, others | 1 | 0 | 5 | 0 | 4 | 10 |
| Upper gastrointestinal | 1 | 3 | 6 | 0 | 1 | 11 |
| Lower gastrointestinal | 1 | 0 | 3 | 0 | 2 | 6 |
| Bronchoscopy | 0 | 0 | 0 | 0 | 0 | 0 |
| Endoscopic examination, others | 0 | 0 | 5 | 0 | 1 | 6 |
| Pathological examination | 0 | 0 | 1 | 0 | 1 | 2 |
| Examination, others | 1 | 0 | 5 | 0 | 2 | 8 |
| Related to nursing care | | | | | | 419 |
| Endotracheal/oral suctioning | 0 | 0 | 2 | 0 | 0 | 2 |
| Changing position | 0 | 2 | 5 | 0 | 2 | 9 |
| Bed bath | 0 | 0 | 2 | 0 | 0 | 2 |
| Help with changing clothes | 0 | 1 | 3 | 0 | 0 | 4 |
| Help with eating | 3 | 5 | 5 | 0 | 0 | 13 |
| Help with bathing | 1 | 1 | 7 | 0 | 0 | 9 |
| Help with elimination | 0 | 1 | 14 | 0 | 0 | 15 |
| Help with moving | 0 | 4 | 17 | 0 | 3 | 24 |
| Transportation | 0 | 0 | 1 | 0 | 1 | 2 |
| Tending patient's belongings | 0 | 1 | 2 | 0 | 0 | 3 |
| Meal serving | 0 | 0 | 0 | 0 | 0 | 0 |
| Patient observation | 6 | 9 | 30 | 0 | 6 | 51 |
| Nursing care, others | 4 | 2 | 28 | 0 | 8 | 42 |
| Oral intake | 1 | 2 | 0 | 0 | 1 | 4 |
| While taking a walk | 0 | 1 | 4 | 0 | 0 | 5 |
| While moving from one place to another | 7 | 19 | 73 | 0 | 12 | 111 |
| While going out/sleeping out | 2 | 0 | 1 | 0 | 0 | 3 |
| While eating | 0 | 2 | 6 | 0 | 0 | 8 |
| While bathing | 1 | 0 | 8 | 0 | 1 | 10 |
| While excreting | 0 | 4 | 21 | 0 | 1 | 26 |
| While sleeping | 4 | 5 | 12 | 0 | 4 | 25 |
| Recuperation, others | 8 | 5 | 36 | 0 | 2 | 51 |
| Others | 33 | 21 | 55 | 0 | 27 | 136 |
| No choice ^(Note 1) | 34 | 12 | 62 | 2 | 17 | 127 |
| Total | 176 | 225 | 819 | 4 | 227 | 1,451 |

 $(Note\ 1) "No\ choice" means\ no\ "situation"\ or\ "potential\ of\ residual\ disability"\ was\ selected.$

Fig. II-1-81 Place of Occurrence and Inpatient/Outpatient Status

| Place of Occurrence × Inpatient/Outpatient Status | Inpatient | Outpatient | No choice(Note 1) | Total |
|---|-----------|------------|-------------------|-------|
| Outpatient examination room | 1 | 40 | 0 | 41 |
| Outpatient treatment room | 3 | 12 | 0 | 15 |
| Outpatient lobby | 0 | 1 | 0 | 1 |
| Emergency room | 3 | 13 | 0 | 16 |
| Critical care center | 13 | 0 | 0 | 13 |
| Patient room | 590 | 1 | 20 | 611 |
| Ward treatment room | 18 | 0 | 0 | 18 |
| Operation room | 227 | 6 | 4 | 237 |
| ICU | 32 | 0 | 0 | 32 |
| CCU | 4 | 0 | 0 | 4 |
| NICU | 5 | 0 | 0 | 5 |
| Examination room | 17 | 6 | 0 | 23 |
| Catheterization laboratory | 42 | 3 | 1 | 46 |
| Radiotherapy room | 9 | 1 | 0 | 10 |
| Radiography room | 26 | 8 | 1 | 35 |
| Radioactive scanning room | 0 | 1 | 0 | 1 |
| Dialysis room | 12 | 2 | 0 | 14 |
| Delivery room | 4 | 0 | 0 | 4 |
| Rehabilitation room | 4 | 2 | 0 | 6 |
| Restroom | 28 | 1 | 3 | 32 |
| Hallway | 48 | 3 | 1 | 52 |
| Bathroom | 21 | 0 | 1 | 22 |
| Stairway | 3 | 1 | 0 | 4 |
| Unknown | 16 | 1 | 0 | 17 |
| Others | 140 | 42 | 9 | 191 |
| No choice ^(Note 1) | 0 | 0 | 1 | 1 |
| Total | 1,266 | 144 | 41 | 1,451 |

 $(Note\ 1)\ "No\ choice"\ means\ no\ "place\ of\ occurrence"\ or\ "inpatient/outpatient\ status"\ was\ selected.$

Fig. II-1-82 Summary of Event and Potential of Residual Disability

| Summary of Event × Potential of Residual Disability | Death | High | Low | Unknown | No choice(Note 1) | Total |
|--|-------|------|-----|---------|-------------------|-------|
| Ordering | 0 | 0 | 12 | 3 | 0 | 15 |
| Drug | 4 | 9 | 58 | 21 | 0 | 92 |
| Blood transfusion | 2 | 1 | 3 | 2 | 0 | 8 |
| Treatment/procedure | 52 | 106 | 257 | 72 | 4 | 491 |
| Medical equipment, etc. | 11 | 12 | 68 | 36 | 0 | 127 |
| Medical device | 3 | 5 | 22 | 10 | 0 | 40 |
| Drainage tube or other tube | 8 | 7 | 41 | 25 | 0 | 81 |
| Dental equipment (device), etc | 0 | 0 | 5 | 1 | 0 | 6 |
| Examination/test | 9 | 6 | 50 | 18 | 0 | 83 |
| Nursing care | 30 | 55 | 268 | 38 | 0 | 391 |
| Others | 68 | 35 | 103 | 37 | 0 | 243 |
| No choice | 0 | 1 | 0 | 0 | 0 | 1 |
| Total | 176 | 225 | 819 | 227 | 4 | 1,451 |

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Fig. II-1-83 Place of Occurrence and Potential of Residual Disability

| Place of Occurrence × Potebtial of Residual Disability | Death | High | Low | Unknown | No choice ^(Note 1) | Total |
|--|-------|------|-----|---------|-------------------------------|-------|
| Outpatient examination room | 2 | 4 | 23 | 12 | 0 | 41 |
| Outpatient treatment room | 1 | 2 | 9 | 3 | 0 | 15 |
| Outpatient lobby | 0 | 0 | 1 | 0 | 0 | 1 |
| Emergency room | 3 | 2 | 11 | 0 | 0 | 16 |
| Critical care center | 3 | 1 | 8 | 1 | 0 | 13 |
| Patient room | 89 | 88 | 341 | 93 | 0 | 611 |
| Ward treatment room | 1 | 2 | 12 | 2 | 1 | 18 |
| Operation room | 13 | 52 | 133 | 38 | 1 | 237 |
| ICU | 9 | 7 | 15 | 1 | 0 | 32 |
| CCU | 0 | 2 | 1 | 1 | 0 | 4 |
| NICU | 0 | 1 | 4 | 0 | 0 | 5 |
| Examination room | 4 | 4 | 11 | 4 | 0 | 23 |
| Catheterization laboratory | 4 | 8 | 27 | 6 | 1 | 46 |
| Radiotherapy room | 2 | 0 | 6 | 2 | 0 | 10 |
| Radiography room | 6 | 9 | 11 | 9 | 0 | 35 |
| Radioactive scanning room | 0 | 0 | 1 | 0 | 0 | 1 |
| Dialysis room | 2 | 1 | 10 | 1 | 0 | 14 |
| Delivery room | 1 | 2 | 1 | 0 | 0 | 4 |
| Rehabilitation room | 0 | 0 | 6 | 0 | 0 | 6 |
| Restroom | 5 | 2 | 22 | 3 | 0 | 32 |
| Hallway | 4 | 8 | 37 | 3 | 0 | 52 |
| Bathroom | 2 | 2 | 17 | 1 | 0 | 22 |
| Stairway | 0 | 1 | 3 | 0 | 0 | 4 |
| Unknown | 0 | 1 | 12 | 4 | 0 | 17 |
| Others | 25 | 26 | 96 | 43 | 1 | 191 |
| No choice ^(Note 1) | 0 | 0 | 1 | 0 | 0 | 1 |
| Total | 176 | 225 | 819 | 227 | 4 | 1,451 |

(Note 1) "No choice" means no "place of occurrence" or "potential of residual disability" was selected.

Fig. II-1-84 Details of Event and Potential of Residual Disability

| Details of Event × Potentila of Residual Disability | Death | High | Low | Unknown | No choice(Note | Total |
|---|-------|------|------------------|--------------|----------------|-------|
| Related to drug | | r | 1 | ŋ | | 107 |
| Dose error | 0 | 0 | 3 | 1 | 0 | 4 |
| Overdose | 1 | 2 | 13 | 9 | 0 | 25 |
| Dosing speed too fast | 0 | 0 | 1 | 3 | 0 | 4 |
| Patient misidentification | 0 | 0 | 10 | 1 | 0 | 11 |
| Drug mix-up | 0 | 1 | 8 | 3 | 0 | 12 |
| Wrong dosing method | 0 | 0 | 3 | 1 | 0 | 4 |
| Drug prescription/administration, others | 5 | 8 | 18 | 3 | 0 | 34 |
| Dispensing error (wrong dose/number) | 0 | 0 | 1 | 0 | 0 | 1 |
| Dispensing/drug management, others | 0 | 0 | 4 | 2 | 0 | 6 |
| Drug/blood product management, others | 1 | 1 | 3 | 1 | 0 | 6 |
| Related to blood transfusion | | | | | | 7 |
| Cross-match error | 0 | 0 | 1 | 0 | 0 | 1 |
| Error in documentation/recording of results | 0 | 0 | 0 | 0 | 0 | 0 |
| Transfusion testing, others | 0 | 0 | 2 | 0 | 0 | 2 |
| Irradiation of blood products, blood transfusion, others | 1 | 1 | 0 | 2 | 0 | 4 |
| Related to treatment/procedure | | • | • | | 437 | • |
| Patient misidentification | 0 | 0 | 1 | 1 | 0 | 2 |
| Wrong site treatment/procedure | 1 | 1 | 10 | 2 | 0 | 14 |
| Wrong examination/treatment/procedure, others | 0 | 0 | 3 | 3 | 0 | 6 |
| Wrong method (technique) | 4 | 14 | 42 | 5 | 0 | 65 |
| Not implemented/forgotten (treatment/procedure) | 0 | 0 | 2 | 0 | 0 | 2 |
| Unnecessary treatment/procedure | 0 | 0 | 2 | 3 | 0 | 5 |
| Wrong patient position | 0 | 0 | 1 | 1 | 0 | 2 |
| Wrong examination/treatment, others | 4 | 9 | 20 | 2 | 0 | 35 |
| Aspiration | 0 | 1 | 4 | 3 | 0 | 8 |
| Retained foreign object | 0 | 1 | 37 | 12 | 0 | 50 |
| Treatment/procedure, others | 34 | 63 | 117 | 32 | 2 | 248 |
| Use/management of medical equipment (device) | | L | L | I | l | 54 |
| Assembly | 0 | 1 | 0 | 0 | 0 | 1 |
| Forgot to set up/turn on power | 0 | 0 | 0 | 0 | 0 | 0 |
| Malfunction | 0 | 1 | 1 | 2 | 0 | 4 |
| Lack of knowledge | 0 | 0 | 1 | 0 | 0 | 1 |
| Forgot to set up alarm | 0 | 0 | 0 | 0 | 0 | 0 |
| Range of alarm setup | 0 | 0 | 0 | 0 | 0 | 0 |
| Neglect in inspection/management before or during device operation | 0 | 1 | 8 | 2 | 0 | 11 |
| Error in sterilization/clean technique (equipment, etc) | 0 | 0 | 1 | 0 | 0 | 1 |
| Breakage | 1 | 0 | 4 | 1 | 0 | 6 |
| Use/management of medical equipment (device), others | 4 | 4 | 17 | 5 | 0 | 30 |
| - | oe | | | | 1 | 92 |
| | 1 | 0 | 2 | 0 | 0 | 3 |
| | 1 | 0 | . | { | | 16 |
| | | | | { | | 4 |
| <u> </u> | | | | { | | 8 |
| Related to use/management of drainage tube or other tul Infusion leakage Self-removal Spontaneous dislodgment Disconnection | 1 | | 2 9 2 4 | 0 6 2 1 | 0 0 0 | |

| Details of Event × Potential of Residual Disability | Death | High | Low | Unknown | No choice(Note 1) | Total |
|---|-------|------|-----|---------|-------------------|-------|
| Blockage | 1 | 1 | 0 | 1 | 0 | 3 |
| Breakage/severance | 0 | 0 | 4 | 6 | 0 | 10 |
| Wrong connection | 0 | 0 | 3 | 0 | 0 | 3 |
| Air bubble in tube | 0 | 0 | 0 | 0 | 0 | 0 |
| Use/management of drainage tube or other tube, others | 6 | 8 | 19 | 12 | 0 | 45 |
| Related to examination | | | | 77 | | |
| Patient misidentification (examination) | 0 | 0 | 1 | 0 | 0 | 1 |
| Wrong examination/evaluation technique | 1 | 1 | 6 | 1 | 0 | 9 |
| Error in sample collection | 0 | 1 | 0 | 0 | 0 | 1 |
| Sample misidentification (examination) | 0 | 0 | 2 | 1 | 0 | 3 |
| Lost sample | 0 | 0 | 1 | 2 | 0 | 3 |
| Sample contamination | 0 | 0 | 0 | 0 | 0 | 0 |
| Management of analytical device/equipment | 0 | 0 | 0 | 0 | 0 | 0 |
| Preparation of examination device/equipment | 0 | 0 | 0 | 0 | 0 | 0 |
| Result reporting | 0 | 0 | 2 | 1 | 0 | 3 |
| Examination, others | 5 | 5 | 36 | 11 | 0 | 57 |
| Related to nursing care | | | | 425 | | |
| Fall | 9 | 31 | 156 | 18 | 0 | 214 |
| Fall from bed | 2 | 4 | 18 | 3 | 0 | 27 |
| Collision | 0 | 0 | 3 | 1 | 0 | 4 |
| Restraint | 0 | 0 | 1 | 0 | 0 | 1 |
| Severe decubitus (involving muscle layer, Stage III/IV) | 0 | 3 | 22 | 3 | 0 | 28 |
| Aspiration (nursing care) | 5 | 9 | 9 | 0 | 0 | 23 |
| Accidental ingestion (nursing care) | 0 | 0 | 2 | 1 | 0 | 3 |
| Nursing care/recuperation, others | 17 | 16 | 58 | 11 | 0 | 102 |
| Transportation, others | 1 | 1 | 4 | 1 | 0 | 7 |
| Going out/staying out without notice | 1 | 0 | 3 | 1 | 0 | 5 |
| Self medication, others | 1 | 0 | 6 | 2 | 0 | 9 |
| Meal/nutrition, others | 1 | 0 | 1 | 0 | 0 | 2 |
| Others | 33 | 21 | 51 | 24 | 0 | 129 |
| No choice ^(Note 1) | 35 | 12 | 56 | 18 | 2 | 123 |
| Total | 176 | 225 | 819 | 227 | 4 | 1,451 |

(Note 1) "No choice" means no "details of event" or "potential of residual disability" was selected.

Fig. II-1-85 Place of Occurrence and Summary of Event

| | | | п | | Medical equipment etc. | | | | | | | |
|---|----------|------|-------------------|-------------------------|------------------------|--------------------------------|---------------------|-------------|--------------|--------|-------------------------------|-------|
| Place of occurrence × summary of event | Ordering | Drug | Blood transfusion | Treatment /procedure | Medical device | Drainage tube or other tube | Dental equipment | Examination | Nursing care | Others | No choice ^(Note 1) | Total |
| Outpatient examination room | 2 | 5 | 1 | 24 | 2 | 1 | 1 | 5 | 0 | 0 | 0 | 41 |
| Outpatient treatment room | 0 | 0 | 0 | 9 | 0 | 2 | 0 | 3 | 0 | 1 | 0 | 15 |
| Outpatient lobby | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Emergency room | 1 | 3 | 0 | 7 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 16 |
| Critical care center | 1 | 2 | 0 | 5 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 13 |
| Patient room | 7 | 48 | 2 | 97 | 8 | 56 | 0 | 8 | 251 | 133 | 1 | 611 |
| Ward treatment room | 2 | 0 | 0 | 8 | 1 | 2 | 0 | 1 | 2 | 2 | 0 | 18 |
| Operation room | 0 | 4 | 2 | 191 | 19 | 5 | 1 | 1 | 0 | 14 | 0 | 237 |
| ICU | 1 | 4 | 0 | 12 | 2 | 2 | 0 | 0 | 4 | 7 | 0 | 32 |
| CCU | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| NICU | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 |
| Examination room | 0 | 0 | 0 | 10 | 0 | 0 | 1 | 11 | 0 | 1 | 0 | 23 |
| Catheterization laboratory | 0 | 1 | 0 | 30 | 2 | 0 | 0 | 11 | 0 | 2 | 0 | 46 |
| Radiotherapy room | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 10 |
| Radiography room | 0 | 0 | 0 | 15 | 1 | 2 | 0 | 16 | 0 | 1 | 0 | 35 |
| Radioactive scanning room | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Dialysis room | 1 | 2 | 1 | 6 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 14 |
| Delivery room | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Rehabilitation room | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 6 |
| Restroom | 0 | 1 | 0 | 3 | 0 | 2 | 0 | 0 | 21 | 5 | 0 | 32 |
| Hallway | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 36 | 13 | 0 | 52 |
| Bathroom | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 17 | 4 | 0 | 22 |
| Stairway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 |
| Unknown | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 9 | 5 | 0 | 17 |
| Others | 0 | 20 | 2 | 49 | 5 | 5 | 2 | 21 | 40 | 47 | 0 | 191 |
| No choice ^(Note 1) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Total | 15 | 92 | 8 | 491 | 40 | 81 | 6 | 83 | 391 | 243 | 1 | 1,451 |

(Note 1) "No choice" means no "place of occurrence" or "summary of event" was selected.

2 Report on Project to Collect, Analyze, and Provide Medical Near-Miss Information

Medical near-miss information is provided by designated medical institutions and other registered medical institutions. Summary of the project as of December 31, 2006 is reported herein.

[1] Voluntarily participating medical institutions

The number of Voluntarily participating medical institutions in Project to Collect Medical Near-Miss Information is shown below.

Fig. II-2-1 Number of Voluntarily participating medical institutions

| Total number of Voluntarily participating medical institutions | 1,276 |
|--|-------|
| Designated medical institutions (among Voluntarily participating medical institutions) | 247 |

Designated medical institutions are those participating in Project to Collect Medical Near-Miss Information and agreed to cooperate to provide "general coded information." Designated medical institutions have been selected by avoiding biases in institution size and location. The number of beds at designated medical institutions and their locations are shown below.

Fig. II-2-2 Designated Medical Institutions by Number of Beds and Location

| Number of beds | Number of medical institutions |
|----------------|--------------------------------|
| 0 to 99 | 27 |
| 100 to 199 | 39 |
| 200 to 299 | 24 |
| 300 to 399 | 50 |
| 400 to 499 | 23 |
| 500 to 599 | 25 |
| 600 or more | 59 |
| Total | 247 |

| Location | Number of medical institutions |
|------------------|--------------------------------|
| Hokkaido | 15 |
| Tohoku | 26 |
| Kanto/Koshinetsu | 58 |
| Tokyo | 16 |
| Tokai/Hokuriku | 39 |
| Kinki | 33 |
| Chugoku/Shikoku | 33 |
| Kyushu/Okinawa | 27 |
| Total | 247 |

The total number of beds at registered medical institutions participating in Project to Collect Medical Near-Miss Information as of December 31, 2006 is 103,610.

[2] Changes in Number of Reports

The summary of collection of medical near-miss information is shown below.

Fig. II-2-3 Changes in Number of Reports

| | | 19 th report | 20 th report | 21st report | 22 nd report | Remarks |
|--|---|--------------------------|-------------------------|-----------------------------|--|---|
| Montl | n of occurrence | January to March | April to June | July to September | October to December | |
| Collec | tion period | February 14 to May 15 | May 16 to August 14 | August 15 to November 13 | November 14 to February 13, 2007 | |
| utions | Total number of Voluntarily participating medical institutions | 1,273 | 1,276 | 1,277 | 1,277 | |
| edical instit | Voluntarily participating medical institutions that made reports | 332 | 370 | 341 | 345 | |
| pating n | Designated medical institutions ^(Note 1) | 247 | 247 | 246 | 246 | |
| Voluntarily participating medical institutions | Designated medical institutions that made reports | 239 | 239 | 226 | 236 | Institutions with reporting difficulty in the 19 th report: 8 institutions Institutions with reporting difficulty in the 20 th report: 9 institutions Institutions with reporting difficulty in the 21 st report: 9 institutions Institutions with reporting difficulty in the 22 nd report: 2 institutions |
| ts(Note 2) | Total number of reports | 44,135 | 56,357 | 52,601 | 49,425 | |
| Number of reports ^(Note 2) | General coded information | 42,754 | 54,025 | 50,768 | 48,067 | |
| Numbe | Descriptive information | 3,178 | 2,332 | 4,637 | 4,798 | |
| Number of evaluable reports | General coded information | 42,753 | 54,025 | 50,769 | 48,062 | |
| Number of repo | Descriptive information | 1,620 | 2,250 | 1,849 | 1,925 | |

⁽Note 1) Designated medical institutions are those participating in Project to Collect Medical Near-Miss Information and agreed to cooperate to provide "general coded information." As of December 31, 2006, 247 institutions have been designated by avoiding biases in institution size and location.

See Attachment 7 "List of Designated Medical Institutions for Project to Collect Medical Near-Miss Information"

⁽Note 2) Reports from medical institutions are classified into (A) general coded information, (B) general coded information and descriptive information, and (C) descriptive information. "Total number of reports" shown in the table represents aggregated number of (A), (B), and (C); "number of general coded information" represents aggregated number of (A) and (B); and "number of descriptive information" represents aggregated number of (B) and (C).

[3] Details of Reports

Fig. II-2-4 Month of Occurrence

| Month of occurrence | Number of reports |
|---------------------|-------------------|
| January | 14,408 |
| February | 14,073 |
| March | 14,247 |
| April | 16,400 |
| May | 18,574 |
| June | 17,760 |
| July | 17,522 |
| August | 17,030 |
| September | 15,118 |
| October | 16,532 |
| November | 16,369 |
| December | 15,051 |
| Month unknown | 2,525 |
| Total | 195,609 |

Fig. II-2-5 Time of Occurrence

| TD* 6 | | N | lumber of even | ts | |
|----------------------|------------------|------------------|------------------|------------------|---------|
| Time of occurrence | 19 th | 20 th | 21 st | 22 nd | Total |
| 0:00 – before 2:00 | 2,484 | 2,914 | 2,790 | 2,760 | 10,948 |
| 2:00 – before 4:00 | 1,825 | 1,926 | 2,021 | 2,005 | 7,777 |
| 4:00 – before 6:00 | 1,659 | 1,901 | 1,996 | 1,897 | 7,453 |
| 6:00 – before 8:00 | 3,187 | 3,700 | 3,665 | 3,393 | 13,945 |
| 8:00 – before 10:00 | 4,773 | 6,047 | 5,800 | 5,565 | 22,185 |
| 10:00 – before 12:00 | 5,305 | 6,828 | 6,224 | 5,898 | 24,255 |
| 12:00 – before 14:00 | 4,233 | 5,467 | 4,805 | 4,759 | 19,264 |
| 14:00 – before 16:00 | 3,904 | 5,242 | 4,713 | 4,557 | 18,416 |
| 16:00 – before 18:00 | 3,910 | 5,236 | 4,789 | 4,571 | 18,506 |
| 18:00 – before 20:00 | 3,655 | 4,602 | 4,421 | 4,366 | 17,044 |
| 20:00 – before 22:00 | 2,977 | 3,425 | 3,444 | 3,188 | 13,034 |
| 22:00 – before 24:00 | 2,461 | 2,783 | 2,756 | 2,618 | 10,618 |
| Time unknown | 2,380 | 3,954 | 3,345 | 2,485 | 12,164 |
| Total | 42,753 | 54,025 | 50,769 | 48,062 | 195,609 |

Fig. II-2-6 Place of Occurrence

| m co | Number of events | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|---------|--|--|--|--|--|
| Place of Occurrence | 19 th | 20 th | 21 st | 22 nd | Total | | | | | |
| Outpatient examination room | 759 | 854 | 704 | 753 | 3,070 | | | | | |
| Outpatient lobby | 88 | 122 | 86 | 107 | 403 | | | | | |
| Outpstient, facility others | 515 | 648 | 591 | 595 | 2,349 | | | | | |
| Emergentcy room | 260 | 299 | 299 | 274 | 1,132 | | | | | |
| Nurse station | 4,161 | 5,876 | 5,165 | 4,824 | 20,026 | | | | | |
| Patient room | 24,062 | 30,010 | 28,647 | 27,041 | 109,760 | | | | | |
| Treatment room | 719 | 1,078 | 860 | 763 | 3,420 | | | | | |
| Bathroom | 177 | 204 | 256 | 216 | 853 | | | | | |
| Ward facility, others | 1,802 | 2,305 | 2,302 | 2,049 | 8,458 | | | | | |
| Operation room | 1,140 | 1,522 | 1,306 | 1,276 | 5,244 | | | | | |
| Delivery room | 37 | 32 | 43 | 33 | 145 | | | | | |
| ICU | 1,181 | 1,451 | 1,431 | 1,295 | 5,358 | | | | | |
| CCU | 259 | 356 | 288 | 332 | 1,235 | | | | | |
| NICU | 525 | 614 | 511 | 459 | 2,109 | | | | | |
| ICU, others | 459 | 359 | 338 | 402 | 1,558 | | | | | |
| Examination room | 730 | 838 | 736 | 716 | 3,020 | | | | | |
| Rehabilitation room | 171 | 209 | 192 | 233 | 805 | | | | | |
| IVR room | 24 | 33 | 32 | 30 | 119 | | | | | |
| Radiography/examination room | 758 | 998 | 879 | 743 | 3,378 | | | | | |
| Radioactive scanning room | 26 | 61 | 30 | 29 | 146 | | | | | |
| Radiotherapy room | 38 | 60 | 35 | 44 | 177 | | | | | |
| Dialysis room | 418 | 573 | 608 | 553 | 2,152 | | | | | |
| Pharmacy/blood transfusion unit | 1,320 | 1,342 | 1,207 | 1,275 | 5,144 | | | | | |
| Nutritional management/ room/kitchen | 275 | 404 | 373 | 353 | 1,405 | | | | | |
| Restroom | 621 | 749 | 710 | 766 | 2,846 | | | | | |
| Hallway | 647 | 773 | 826 | 704 | 2,950 | | | | | |
| Stairway | 7 | 11 | 15 | 14 | 47 | | | | | |
| Unknown | 787 | 1,185 | 1,256 | 1,347 | 4,575 | | | | | |
| Other place (within institution) | 635 | 867 | 849 | 673 | 3,024 | | | | | |
| Other place (outside institution) | 152 | 192 | 194 | 163 | 701 | | | | | |
| Total | 42,753 | 54,025 | 50,769 | 48,062 | 195,609 | | | | | |

Fig. II-2-7 Cause of Event

| C eF (Note 1) | 19 | th | 20 | th | 21 | st | 22' | ıd | Tot | al |
|---|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| Cause of Event (Note 1) | Number | % |
| Inadequate check | 26,260 | 25.9 | 35,445 | 25.1 | 32,381 | 24.8 | 30,085 | 25.4 | 124,171 | 25.3 |
| Inadequate observation | 14,092 | 13.9 | 17,672 | 12.5 | 16,894 | 13.0 | 16,071 | 13.6 | 64,729 | 13.2 |
| Misjudgment | 8,232 | 8.1 | 10,789 | 7.7 | 9,820 | 7.5 | 8,568 | 7.2 | 37,409 | 7.6 |
| Lack of knowledge/wrong knowledge | 2,452 | 2.4 | 4,842 | 3.4 | 3,900 | 3.0 | 3,088 | 2.6 | 14,282 | 2.9 |
| Deficiency of technique (skill)/erroneous technique (skill) | 1,980 | 2.0 | 3,225 | 2.3 | 2,658 | 2.0 | 2,153 | 1.8 | 10,016 | 2.0 |
| Reporting, etc. (forgotten, inadequate/incorrect, inappropriate) | 1,669 | 1.6 | 2,867 | 2.0 | 2,554 | 2.0 | 2,222 | 1.9 | 9,312 | 1.9 |
| Physical condition (ex. lack of sleep, being sick) | 1,466 | 1.4 | 2,111 | 1.5 | 2,032 | 1.6 | 1,783 | 1.5 | 7,392 | 1.5 |
| Psychological condition(ex. rushed, action based on false assumption) | 13,391 | 13.2 | 18,835 | 13.4 | 17,306 | 13.3 | 15,457 | 13.1 | 64,989 | 13.2 |
| System | 1,611 | 1.6 | 2,426 | 1.7 | 2,169 | 1.7 | 1,974 | 1.7 | 8,180 | 1.7 |
| Coordination | 4,467 | 4.4 | 6,681 | 4.7 | 5,839 | 4.5 | 5,468 | 4.6 | 22,455 | 4.6 |
| Record documentation | 885 | 0.9 | 1,357 | 1.0 | 1,306 | 1.0 | 1,237 | 1.0 | 4,785 | 1.0 |
| Similarity in patient's appearance (face, age) or name | 174 | 0.2 | 212 | 0.2 | 211 | 0.2 | 190 | 0.2 | 787 | 0.2 |
| Working condition | 9,814 | 9.7 | 12,220 | 8.7 | 11,520 | 8.8 | 11,125 | 9.4 | 44,679 | 9.1 |
| Environment | 701 | 0.7 | 1,053 | 0.7 | 1,081 | 0.8 | 1,031 | 0.9 | 3,866 | 0.8 |
| Medical/dental equipment (device), tool, material | 926 | 0.9 | 1,141 | 0.8 | 1,160 | 0.9 | 951 | 0.8 | 4,178 | 0.9 |
| Drug | 938 | 0.9 | 1,228 | 0.9 | 1,212 | 0.9 | 1,066 | 0.9 | 4,444 | 0.9 |
| Other items | 433 | 0.4 | 509 | 0.4 | 555 | 0.4 | 531 | 0.4 | 2,028 | 0.4 |
| Facility | 199 | 0.2 | 334 | 0.2 | 319 | 0.2 | 306 | 0.3 | 1,158 | 0.2 |
| Education/training | 1,829 | 1.8 | 3,290 | 2.3 | 2,803 | 2.1 | 2,404 | 2.0 | 10,326 | 2.1 |
| Explanation to patient/family | 5,871 | 5.8 | 7,041 | 5.0 | 6,917 | 5.3 | 6,486 | 5.5 | 26,315 | 5.4 |
| Others | 3,909 | 3.9 | 7,661 | 5.4 | 7,815 | 6.0 | 6,115 | 5.2 | 25,500 | 5.2 |
| Total | 101,299 | 100.0 | 140,939 | 100.0 | 130,452 | 100.0 | 118,311 | 100.0 | 491,001 | 100.0 |

(Note 1) "Cause of event" may be more than one.

Fig. II-2-8 Cause of Event (Details)

| Cause of Event | Detailed cause of event | Number of events | | | | | | |
|-------------------------------|---|------------------|------------------|------------------|------------------|---------|--|--|
| (Note 1) | Detailed cause of event | 19 th | 20 th | 21 st | 22 nd | Total | | |
| Check | Inadequate checking | 25,810 | 34,867 | 31,848 | 29,590 | 122,115 | | |
| Спеск | Others | 450 | 578 | 533 | 495 | 2,056 | | |
| Observation | Inadequate observation | 13,812 | 17,314 | 16,570 | 15,768 | 63,464 | | |
| Observation | Others | 280 | 358 | 324 | 303 | 1,265 | | |
| | Rushed | 2,901 | 4,350 | 4,043 | 3,701 | 14,995 | | |
| | Irritated | 359 | 428 | 450 | 310 | 1,547 | | |
| | Nervous | 296 | 748 | 463 | 397 | 1,904 | | |
| Psychological condition | Preoccupied with other thing | 2,273 | 3,121 | 2,720 | 2,476 | 10,590 | | |
| | Acted based on false assumption | 4,999 | 6,965 | 6,506 | 5,661 | 24,131 | | |
| | Acted unwittingly | 1,698 | 2,202 | 2,079 | 1,882 | 7,861 | | |
| | Others | 865 | 1,021 | 1,045 | 1,030 | 3,961 | | |
| | Busy | 4,417 | 5,555 | 5,113 | 5,323 | 20,408 | | |
| | Inadequate personnel management | 210 | 188 | 198 | 105 | 701 | | |
| | Interrupted procedure | 396 | 592 | 458 | 469 | 1,915 | | |
| Working | On duty | 144 | 199 | 178 | 174 | 695 | | |
| condition | After duty | 54 | 62 | 48 | 53 | 217 | | |
| | Worked on night shift | 4,007 | 4,638 | 4,677 | 4,392 | 17,714 | | |
| | After working on night shift | 291 | 386 | 399 | 284 | 1,360 | | |
| | Others | 295 | 600 | 449 | 325 | 1,669 | | |
| T 1 4 | Misjudgment | 7,809 | 10,248 | 9,276 | 8,075 | 35,408 | | |
| Judgment | Others | 423 | 541 | 544 | 493 | 2,001 | | |
| Inad Inco | Inadequate explanation | 2,531 | 3,097 | 2,943 | 2,615 | 11,186 | | |
| | Incorrect explanation | 60 | 113 | 79 | 90 | 342 | | |
| Explanation to patient/family | Insufficient understanding of patient/family | 3,036 | 3,438 | 3,470 | 3,357 | 13,301 | | |
| | Others | 244 | 393 | 425 | 424 | 1,486 | | |
| | Insufficient coordination between doctor and nurse | 1,114 | 1,643 | 1,465 | 1,442 | 5,664 | | |
| | Insufficient coordination between doctor and technical staff | 115 | 104 | 107 | 74 | 400 | | |
| | Insufficient coordination between doctor and administrative staff | 26 | 21 | 20 | 27 | 94 | | |
| | Insufficient coordination between doctors | 104 | 132 | 110 | 125 | 471 | | |
| Coordination | Insufficient coordination between nurses | 2,301 | 3,640 | 3,104 | 2,806 | 11,851 | | |
| | Insufficient coordination among technical staff | 147 | 200 | 145 | 205 | 697 | | |
| | Insufficient coordination among staff with different responsibilities | 489 | 637 | 571 | 504 | 2,201 | | |
| | Insufficient coordination between dentist and dental staff | 0 | 0 | 0 | 0 | 0 | | |
| | Others | 171 | 304 | 317 | 285 | 1,077 | | |
| | Lack of knowledge | 1,949 | 3,761 | 3,018 | 2,412 | 11,140 | | |
| Knowledge | Incorrect knowledge | 308 | 641 | 478 | 357 | 1,784 | | |
| | Others | 195 | 440 | 404 | 319 | 1,358 | | |
| | Total | 84,579 | 113,525 | 104,577 | 96,348 | 399,029 | | |

 $(Note \ 1) \ \ "Cause \ of \ event" \ \ may \ be \ more \ than \ one.$

Fig. II-2-9 Patient Age

| A | | N | lumber of even | ts | |
|----------------------------|------------------|------------------|------------------|------------------|---------|
| Age | 19 th | 20 th | 21 st | 22 nd | Total |
| 0 to 10 | 2,622 | 3,772 | 3,423 | 3,238 | 13,055 |
| 11 to 20 | 747 | 1,057 | 1,174 | 1,032 | 4,010 |
| 21 to 30 | 1,275 | 1,820 | 1,718 | 1,472 | 6,285 |
| 31 to 40 | 1,852 | 2,432 | 2,307 | 2,061 | 8,652 |
| 41 to 50 | 2,052 | 2,869 | 2,685 | 2,371 | 9,977 |
| 51 to 60 | 4,704 | 6,310 | 5,897 | 5,368 | 22,279 |
| 61 to 70 | 7,594 | 9,924 | 9,417 | 8,790 | 35,725 |
| 71 to 80 | 10,626 | 13,314 | 12,922 | 12,459 | 49,321 |
| 81 to 90 | 5,939 | 6,962 | 6,349 | 6,358 | 25,608 |
| 91 or above | 1,014 | 1,086 | 955 | 1,068 | 4,123 |
| Multiple patients involved | 737 | 494 | 467 | 461 | 2,159 |
| Unknown | 3,591 | 3,985 | 3,455 | 3,384 | 14,415 |
| Total | 42,753 | 54,025 | 50,769 | 48,062 | 195,609 |

Fig. II-2-10 Effect of Medical Near-Miss Incident

| Effect | 19 |) th | 20 th | | 21 st | | 22 nd | | Total | |
|--|--------|-----------------|------------------|-------|------------------|-------|------------------|-------|---------|-------|
| Effect | Number | % | Number | % | Number | % | Number | % | Number | % |
| Detected before taking action: slight effect on patient (no treatment necessary) | 4,927 | 11.5 | 6,738 | 12.5 | 5938 | 11.7 | 5,575 | 11.6 | 23,178 | 11.8 |
| Detected before taking action: moderate effect on patient (treatment necessary) | 1,391 | 3.3 | 2,097 | 3.9 | 1835 | 3.6 | 1,948 | 4.1 | 7,271 | 3.7 |
| Detected before taking action: major effect on patient (life-threatening) | 714 | 1.7 | 730 | 1.4 | 763 | 1.5 | 948 | 2.0 | 3,155 | 1.6 |
| Action taken but patient not affected | 29,973 | 70.1 | 37,293 | 69.0 | 35339 | 69.6 | 32,942 | 68.5 | 135,547 | 69.3 |
| Unknown | 1,682 | 3.9 | 2,368 | 4.4 | 2113 | 4.2 | 2,098 | 4.4 | 8,261 | 4.2 |
| Others | 4,066 | 9.5 | 4,799 | 8.9 | 4781 | 9.4 | 4,551 | 9.5 | 18,197 | 9.3 |
| Total | 42,753 | 100.0 | 54,025 | 100.0 | 50,769 | 100.0 | 48,062 | 100.0 | 195,609 | 100.0 |

Fig. II-2-11 Years of Experience of Person Involved

| Years of Experience of | Number of events | | | | | | | | | |
|---------------------------|------------------|------------------|------------------|------------------|---------|--|--|--|--|--|
| Person Involved | 19 th | 20 th | 21 st | 22 nd | Total | | | | | |
| 0 year | 5,640 | 6,293 | 7,902 | 6,716 | 26,551 | | | | | |
| 1 year | 3,855 | 5,769 | 5,060 | 4,616 | 19,300 | | | | | |
| 2 years | 3,538 | 4,419 | 4,196 | 4,050 | 16,203 | | | | | |
| 3 years | 2,859 | 3,984 | 3,633 | 3,349 | 13,825 | | | | | |
| 4 years | 2,360 | 3,373 | 2,873 | 2,826 | 11,432 | | | | | |
| 5 years | 1,885 | 2,671 | 2,283 | 2,017 | 8,856 | | | | | |
| 6 years | 1,686 | 1,995 | 1,751 | 1,726 | 7,158 | | | | | |
| 7 years | 1,529 | 1,714 | 1,523 | 1,538 | 6,304 | | | | | |
| 8 years | 1,143 | 1,658 | 1,434 | 1,277 | 5,512 | | | | | |
| 9 years | 1,102 | 1,302 | 1,191 | 1,251 | 4,846 | | | | | |
| 10 years | 1,052 | 1,722 | 1,457 | 1,308 | 5,539 | | | | | |
| 11 to 20 years | 6,525 | 7,785 | 6,978 | 6,953 | 28,241 | | | | | |
| 21 to 30 years | 3,433 | 4,187 | 3,840 | 3,747 | 15,207 | | | | | |
| 30 years or longer | 753 | 891 | 834 | 806 | 3,284 | | | | | |
| Multiple persons involved | 1,448 | 2,004 | 1,629 | 1,616 | 6,697 | | | | | |
| Unknown | 3,945 | 4,258 | 4,185 | 4,266 | 16,654 | | | | | |
| Total | 42,753 | 54,025 | 50,769 | 48,062 | 195,609 | | | | | |

Fig. II-2-12 Job Title of Person Involved

| Note 1) | | | Number of event | ts | |
|---------------------------------------|------------------|------------------|------------------|------------------|---------|
| Job Title of Person Involved (Note 1) | 19 th | 20 th | 21 st | 22 nd | Total |
| Doctor | 2,067 | 2,396 | 2,037 | 1,997 | 8,497 |
| Dentist | 27 | 37 | 33 | 24 | 121 |
| Midwife | 490 | 669 | 594 | 498 | 2,251 |
| Nurse | 34,659 | 44,503 | 42,057 | 39,678 | 160,897 |
| Assistant nurse | 674 | 799 | 735 | 720 | 2,928 |
| Nursing assistant | 244 | 304 | 263 | 256 | 1,067 |
| Pharmacist | 1,423 | 1,564 | 1,370 | 1,421 | 5,778 |
| National registered dietitian | 157 | 260 | 241 | 225 | 883 |
| Dietitian | 135 | 233 | 177 | 175 | 720 |
| Cook/cooking staff | 398 | 572 | 519 | 511 | 2,000 |
| Radiological technologist | 613 | 775 | 664 | 588 | 2,640 |
| Clinical technologist | 646 | 804 | 660 | 669 | 2,779 |
| Medical technologist | 10 | 7 | 4 | 5 | 26 |
| Physical therapist (PT) | 178 | 268 | 221 | 259 | 926 |
| Occupational therapist (OT) | 59 | 91 | 90 | 92 | 332 |
| Speech therapist (ST) | 7 | 15 | 9 | 25 | 56 |
| Dental hygienist | 9 | 10 | 6 | 5 | 30 |
| Dental technician | 1 | 1 | 3 | 1 | 6 |
| Orthoptist | 5 | 21 | 11 | 12 | 49 |
| Psychiatric social worker | 2 | 8 | 4 | 1 | 15 |
| Clinical psychologist | 2 | 2 | 1 | 4 | 9 |
| Certified social worker | 4 | 14 | 6 | 2 | 26 |
| Certified care worker | 57 | 61 | 61 | 42 | 221 |
| Clinical engineering technologist | 112 | 160 | 166 | 164 | 602 |
| Children's supervisor/child minder | 11 | 49 | 13 | 21 | 94 |
| Administrative staff | 387 | 395 | 361 | 377 | 1,520 |
| Unknown | 2,466 | 6,275 | 6,206 | 4,584 | 19,531 |
| Others | 548 | 430 | 572 | 509 | 2,059 |
| Total | 45,391 | 60,723 | 57,084 | 52,865 | 216,063 |

(Note 1) More than one "job title" could be involved in a case.

Fig. II-2-13 Patient Physical/Psychological State

| Patient Physical/Psychological State | | | Number of events | S | |
|--------------------------------------|------------------|------------------|------------------|------------------|---------|
| (Note 1) | 19 th | 20 th | 21 st | 22 nd | Total |
| Disturbance of consciousness | 3,212 | 3,634 | 3,516 | 3,393 | 13,755 |
| Visual impairment | 877 | 1,037 | 1,007 | 906 | 3,827 |
| Hearing impairment | 771 | 926 | 868 | 793 | 3,358 |
| Dysarthria | 848 | 900 | 850 | 851 | 3,449 |
| Mental disorder | 1,982 | 2,472 | 2,506 | 2,345 | 9,305 |
| Dementia/amnesia | 4,457 | 4,837 | 4,880 | 4,773 | 18,947 |
| Upper extremity disability | 2,263 | 2,698 | 2,599 | 2,429 | 9,989 |
| Lower extremity disability | 3,996 | 4,804 | 4,611 | 4,273 | 17,684 |
| Gait disorder | 5,005 | 5,745 | 5,719 | 5,437 | 21,906 |
| Bed rest | 5,768 | 7,286 | 6,335 | 6,162 | 25,551 |
| Sleeping | 886 | 1,006 | 1,100 | 946 | 3,938 |
| Delirious | 1,963 | 2,255 | 2,217 | 2,327 | 8,762 |
| Under drug influence | 2,480 | 2,991 | 2,905 | 2,891 | 11,267 |
| Anesthetized/pre- or post-anesthesia | 1,059 | 1,439 | 1,261 | 1,177 | 4,936 |
| No disorder | 9,814 | 13,795 | 13,053 | 12,105 | 48,767 |
| Unknown | 10,723 | 15,452 | 13,970 | 12,550 | 52,695 |
| Others | 4,225 | 5,334 | 5,500 | 4,840 | 19,899 |
| Total | 60,329 | 76,611 | 72,897 | 68,198 | 278,035 |

(Note 1) More than one "patient physical/psychological state" could be selected.

Fig. II-2-14 Sex of Patients

| Corr | Number of events | | | | | | | | | |
|----------------------------|------------------|------------------|------------------|------------------|---------|--|--|--|--|--|
| Sex | 19 th | 20 th | 21 st | 22 nd | Total | | | | | |
| Male | 22,750 | 29,141 | 27,303 | 25,953 | 105,147 | | | | | |
| Female | 17,707 | 22,134 | 21,054 | 19,725 | 80,620 | | | | | |
| Multiple patients involved | 713 | 513 | 450 | 440 | 2,116 | | | | | |
| Unidentifiable | 1,583 | 2,237 | 1,962 | 1,944 | 7,726 | | | | | |
| Total | 42,753 | 54,025 | 50,769 | 48,062 | 195,609 | | | | | |

Fig. II-2-15 Number of Years Person Involved Has Been Working at Current Department

| Number of Years Person | | | Number of events | S | |
|--|------------------|------------------|------------------|------------------|---------|
| Involved Has Been Working at Current Department | 19 th | 20 th | 21 st | 22 nd | Total |
| 0 year | 10,422 | 13,533 | 14,402 | 13,024 | 51,381 |
| 1 year | 6,740 | 9,446 | 8,178 | 7,633 | 31,997 |
| 2 years | 5,382 | 6,752 | 6,095 | 5,876 | 24,105 |
| 3 years | 3,614 | 5,133 | 4,479 | 4,199 | 17,425 |
| 4 years | 2,508 | 3,344 | 2,930 | 2,713 | 11,495 |
| 5 years | 1,631 | 2,244 | 2,014 | 1,876 | 7,765 |
| 6 years | 1,052 | 1,313 | 1,160 | 1,120 | 4,645 |
| 7 years | 734 | 903 | 860 | 780 | 3,277 |
| 8 years | 500 | 588 | 538 | 564 | 2,190 |
| 9 years | 337 | 421 | 361 | 347 | 1,466 |
| 10 years | 329 | 486 | 475 | 452 | 1,742 |
| 11 to 20 years | 1,282 | 1,385 | 1,253 | 1,368 | 5,288 |
| 21 to 30 years | 339 | 459 | 380 | 393 | 1,571 |
| 30 years or longer | 233 | 232 | 208 | 208 | 881 |
| Multiple persons involved | 1,450 | 2,006 | 1,636 | 1,628 | 6,720 |
| Unknown | 6,200 | 5,780 | 5,800 | 5,881 | 23,661 |
| Total | 42,753 | 54,025 | 50,769 | 48,062 | 195,609 |

Fig. II-2-16 Person Who Identified Incident

| Person Who Identified Incident | | N | Number of even | ts | |
|--------------------------------|------------------|------------------|------------------|------------------|---------|
| Person who identified incident | 19 th | 20 th | 21 st | 22 nd | Total |
| Person himself/herself | 21,588 | 25,970 | 24,867 | 24,004 | 96,429 |
| Coworker of same job title | 12,094 | 17,286 | 15,665 | 14,126 | 59,171 |
| Coworker of another job title | 4,379 | 5,284 | 4,651 | 4,774 | 19,088 |
| Patient himself/herself | 1,622 | 2,106 | 2,159 | 1,917 | 7,804 |
| Patient's family/caregiver | 966 | 1,260 | 1,177 | 1,141 | 4,544 |
| Other patient | 1,055 | 1,120 | 1,107 | 1,039 | 4,321 |
| Unknown | 402 | 439 | 476 | 450 | 1,767 |
| Others | 647 | 560 | 667 | 611 | 2,485 |
| Total | 42,753 | 54,025 | 50,769 | 48,062 | 195,609 |

Fig. II-2-17 Situation in Which Medical Near-Miss Incident Occurred

| Gtt | 19 |) th | 20 |) th | 21 | 1 st | 22 | 2 nd | То | tal |
|--|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|---------|-------|
| Situation | Number | % | Number | % | Number | % | Number | % | Number | % |
| Ordering/instruction | 618 | 1.4 | 687 | 1.3 | 607 | 1.2 | 686 | 1.4 | 2,598 | 1.3 |
| Communication process | 1,174 | 2.7 | 1,520 | 2.8 | 1,341 | 2.6 | 1,437 | 3.0 | 5,472 | 2.8 |
| Drug preparation | 744 | 1.7 | 1,222 | 2.3 | 941 | 1.9 | 840 | 1.7 | 3,747 | 1.9 |
| Prescription/drug administration | 10,192 | 23.8 | 13,166 | 24.4 | 11,944 | 23.5 | 11,131 | 23.2 | 46,433 | 23.7 |
| Dispensing, drug management, etc. | 1,600 | 3.7 | 1,695 | 3.1 | 1,472 | 2.9 | 1,566 | 3.3 | 6,333 | 3.2 |
| Blood transfusion | 218 | 0.5 | 225 | 0.4 | 254 | 0.5 | 231 | 0.5 | 928 | 0.5 |
| Surgery | 599 | 1.4 | 773 | 1.4 | 678 | 1.3 | 604 | 1.3 | 2,654 | 1.4 |
| Anesthesia | 67 | 0.2 | 68 | 0.1 | 51 | 0.1 | 39 | 0.1 | 225 | 0.1 |
| Delivery/mechanical abortion | 22 | 0.1 | 21 | 0.0 | 35 | 0.1 | 25 | 0.1 | 103 | 0.1 |
| Treatment, others | 354 | 0.8 | 455 | 0.8 | 457 | 0.9 | 401 | 0.8 | 1,667 | 0.9 |
| Procedure | 331 | 0.8 | 485 | 0.9 | 408 | 0.8 | 393 | 0.8 | 1,617 | 0.8 |
| Examination/interview | 117 | 0.3 | 148 | 0.3 | 127 | 0.3 | 153 | 0.3 | 545 | 0.3 |
| Use/management of medical equipment (device) | 1,111 | 2.6 | 1,423 | 2.6 | 1,369 | 2.7 | 1,293 | 2.7 | 5,196 | 2.7 |
| Use/management of drainage tube or other tube | 7,362 | 17.2 | 7,843 | 14.5 | 7,584 | 14.9 | 7,467 | 15.5 | 30,256 | 15.5 |
| Use/management of dental equipment (device)/material | 7 | 0.0 | 9 | 0.0 | 5 | 0.0 | 9 | 0.0 | 30 | 0.0 |
| Examination/test | 3,107 | 7.3 | 4,035 | 7.5 | 3,531 | 7.0 | 3,274 | 6.8 | 13,947 | 7.1 |
| Nursing care | 4,433 | 10.4 | 5,002 | 9.3 | 5,013 | 9.9 | 4,977 | 10.4 | 19,425 | 9.9 |
| Meal/nutrition | 1,245 | 2.9 | 1,697 | 3.1 | 1,480 | 2.9 | 1,378 | 2.9 | 5,800 | 3.0 |
| Nursing care, others | 5,735 | 13.4 | 6,148 | 11.4 | 6,352 | 12.5 | 6,011 | 12.5 | 24,246 | 12.4 |
| Supply transportation | 47 | 0.1 | 61 | 0.1 | 51 | 0.1 | 46 | 0.1 | 205 | 0.1 |
| Radiation control | 10 | 0.0 | 24 | 0.0 | 12 | 0.0 | 8 | 0.0 | 54 | 0.0 |
| Medical record and information management | 434 | 1.0 | 587 | 1.1 | 485 | 1.0 | 472 | 1.0 | 1,978 | 1.0 |
| Explanation to patient/family | 288 | 0.7 | 377 | 0.7 | 368 | 0.7 | 323 | 0.7 | 1,356 | 0.7 |
| Facility | 95 | 0.2 | 104 | 0.2 | 101 | 0.2 | 85 | 0.2 | 385 | 0.2 |
| Others | 2,843 | 6.6 | 6,250 | 11.6 | 6,103 | 12.0 | 5,213 | 10.8 | 20,409 | 10.4 |
| Total | 42,753 | 100.0 | 54,025 | 100.0 | 50,769 | 100.0 | 48,062 | 100.0 | 195,609 | 100.0 |

Fig. II-2-18 Situation and Cause (19th Report)

| Situation and Cause ^(Note 1) | Check | Observation | Judgment | Knowledge | Technique (skill) | Reporting, etc. | Physical condition | Psychological condition | System |
|--|--------|-------------|----------|-----------|-------------------|-----------------|--------------------|-------------------------|--------|
| Ordering/instruction | 488 | 45 | 73 | 34 | 14 | 56 | 19 | 149 | 62 |
| Communication process | 952 | 97 | 222 | 113 | 33 | 182 | 35 | 378 | 161 |
| Drug preparation | 641 | 66 | 88 | 42 | 43 | 22 | 22 | 245 | 31 |
| Prescription/drug administration | 8,869 | 1,548 | 1,485 | 676 | 385 | 440 | 396 | 3,643 | 470 |
| Dispensing, drug management, etc. | 1,391 | 131 | 138 | 83 | 91 | 36 | 74 | 644 | 71 |
| Blood transfusion | 156 | 32 | 35 | 27 | 28 | 14 | 8 | 67 | 19 |
| Surgery | 416 | 131 | 94 | 61 | 78 | 49 | 16 | 170 | 23 |
| Anesthesia | 36 | 13 | 14 | 6 | 14 | 1 | 1 | 14 | 2 |
| Delivery/mechanical abortion | 13 | 2 | 3 | 3 | 5 | 1 | 0 | 9 | 1 |
| Treatment, others | 222 | 108 | 98 | 24 | 42 | 14 | 13 | 108 | 14 |
| Procedure | 189 | 95 | 91 | 49 | 55 | 22 | 12 | 102 | 15 |
| Examination/interview | 68 | 15 | 22 | 6 | 8 | 8 | 5 | 28 | 8 |
| Use/management of medical equipment (device) | 819 | 301 | 148 | 157 | 144 | 32 | 32 | 318 | 53 |
| Use/management of drainage tube or other tube | 3,141 | 4,408 | 1,876 | 303 | 401 | 120 | 206 | 1,148 | 66 |
| Use/management of dental equipment (device)/material | 5 | 3 | 0 | 1 | 4 | 0 | 0 | 1 | 0 |
| Examination/test | 2,564 | 316 | 436 | 244 | 153 | 180 | 119 | 1,156 | 189 |
| Nursing care | 1,730 | 2,631 | 1,297 | 135 | 196 | 98 | 111 | 718 | 47 |
| Meal/nutrition | 1,070 | 199 | 115 | 54 | 45 | 45 | 25 | 329 | 77 |
| Nursing care, others | 1,321 | 3,032 | 1,255 | 84 | 62 | 41 | 167 | 538 | 32 |
| Supply transportation | 36 | 2 | 8 | 3 | 2 | 2 | 0 | 13 | 5 |
| Radiation control | 8 | 0 | 2 | 0 | 0 | 0 | 0 | 4 | 2 |
| Medical record and information management | 368 | 30 | 57 | 16 | 12 | 21 | 8 | 119 | 34 |
| Explanation to patient/family | 180 | 28 | 68 | 27 | 6 | 24 | 4 | 71 | 18 |
| Facility | 40 | 14 | 15 | 6 | 3 | 3 | 1 | 16 | 4 |
| Others | 1,420 | 820 | 499 | 177 | 124 | 175 | 81 | 583 | 75 |
| Total | 26,143 | 14,067 | 8,139 | 2,331 | 1,948 | 1,586 | 1,355 | 10,571 | 1,479 |

| Coordination | Record documentation | Similarity in patient's appearance (face, age) or name | Working condition | Environment | Medical/dental equipment, instrument, material | Drug | Other items | Facility | Education/training | Explanation to patient/family | Others | Total |
|--------------|----------------------|--|-------------------|-------------|--|------|-------------|----------|--------------------|-------------------------------|--------|--------|
| 127 | 32 | 1 | 74 | 6 | 1 | 9 | 1 | 1 | 34 | 9 | 50 | 1,285 |
| 358 | 71 | 15 | 221 | 11 | 3 | 13 | 7 | 4 | 74 | 47 | 24 | 3,021 |
| 83 | 21 | 3 | 119 | 12 | 5 | 65 | 4 | 1 | 31 | 12 | 20 | 1,576 |
| 1,339 | 360 | 41 | 2,281 | 68 | 67 | 462 | 32 | 6 | 523 | 459 | 242 | 23,792 |
| 113 | 41 | 1 | 346 | 18 | 31 | 254 | 11 | 6 | 41 | 11 | 103 | 3,635 |
| 29 | 5 | 1 | 38 | 6 | 5 | 7 | 2 | 1 | 17 | 5 | 9 | 511 |
| 139 | 11 | 2 | 70 | 4 | 33 | 6 | 6 | 3 | 28 | 25 | 42 | 1,407 |
| 9 | 0 | 1 | 3 | 3 | 4 | 2 | 1 | 2 | 6 | 1 | 4 | 137 |
| 3 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 45 |
| 42 | 7 | 1 | 57 | 3 | 14 | 4 | 4 | 2 | 18 | 17 | 34 | 846 |
| 37 | 8 | 3 | 65 | 2 | 12 | 8 | 6 | 4 | 23 | 12 | 27 | 837 |
| 26 | 2 | 7 | 29 | 4 | 1 | 0 | 1 | 0 | 7 | 15 | 11 | 271 |
| 116 | 10 | 1 | 193 | 21 | 257 | 6 | 33 | 10 | 81 | 18 | 29 | 2,779 |
| 367 | 25 | 1 | 1,620 | 100 | 208 | 21 | 71 | 12 | 221 | 1,073 | 455 | 15,843 |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 19 |
| 408 | 86 | 38 | 575 | 31 | 76 | 11 | 25 | 12 | 178 | 121 | 149 | 7,067 |
| 278 | 16 | 19 | 959 | 134 | 105 | 18 | 84 | 28 | 173 | 1,161 | 206 | 10,144 |
| 126 | 15 | 8 | 142 | 3 | 3 | 2 | 7 | 3 | 56 | 48 | 33 | 2,405 |
| 156 | 10 | 2 | 1,026 | 198 | 36 | 24 | 103 | 52 | 109 | 1,471 | 500 | 10,219 |
| 9 | 2 | 2 | 8 | 1 | 2 | 0 | 4 | 1 | 0 | 0 | 1 | 101 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 22 |
| 54 | 26 | 14 | 67 | 3 | 0 | 0 | 3 | 0 | 31 | 9 | 15 | 887 |
| 56 | 7 | 0 | 43 | 2 | 2 | 3 | 1 | 0 | 14 | 137 | 9 | 700 |
| 7 | 0 | 0 | 12 | 7 | 8 | 1 | 10 | 32 | 9 | 10 | 7 | 205 |
| 228 | 63 | 13 | 530 | 49 | 51 | 22 | 16 | 10 | 85 | 305 | 1,938 | 7,264 |
| 4,114 | 818 | 174 | 8,481 | 686 | 926 | 938 | 433 | 190 | 1,764 | 4,966 | 3,909 | 95,018 |

Fig. II-2-19 Situation and Cause (20th Report)

| Situation and Cause ^(Note 1) | Check | Observation | Judgment | Knowledge | Technique (skill) | Reporting, etc. | Physical condition | Psychological condition | System |
|--|--------|-------------|----------|-----------|-------------------|-----------------|--------------------|-------------------------|--------|
| Ordering/instruction | 558 | 84 | 89 | 62 | 15 | 71 | 20 | 191 | 95 |
| Communication process | 1,254 | 123 | 293 | 159 | 39 | 247 | 42 | 499 | 195 |
| Drug preparation | 1,072 | 115 | 182 | 112 | 87 | 58 | 39 | 443 | 55 |
| Prescription/drug administration | 11,651 | 2,327 | 2,271 | 1,348 | 666 | 672 | 492 | 5,094 | 683 |
| Dispensing, drug management, etc. | 1,482 | 190 | 173 | 124 | 108 | 40 | 76 | 709 | 71 |
| Blood transfusion | 170 | 33 | 57 | 42 | 24 | 15 | 10 | 90 | 19 |
| Surgery | 567 | 164 | 137 | 97 | 81 | 61 | 18 | 234 | 55 |
| Anesthesia | 37 | 17 | 10 | 7 | 16 | 1 | 2 | 19 | 2 |
| Delivery/mechanical abortion | 14 | 5 | 8 | 2 | 6 | 2 | 1 | 7 | 0 |
| Treatment, others | 293 | 175 | 131 | 43 | 69 | 38 | 20 | 146 | 31 |
| Procedure | 355 | 121 | 128 | 74 | 83 | 57 | 26 | 170 | 20 |
| Examination/interview | 95 | 28 | 42 | 13 | 9 | 12 | 7 | 32 | 9 |
| Use/management of medical equipment (device) | 1,082 | 406 | 224 | 211 | 185 | 48 | 56 | 467 | 57 |
| Use/management of drainage tube or other tube | 3,636 | 4,709 | 1,798 | 438 | 557 | 119 | 240 | 1,265 | 82 |
| Use/management of dental equipment (device)/material | 7 | 5 | 3 | 1 | 1 | 0 | 0 | 4 | 0 |
| Examination/test | 3,333 | 463 | 598 | 398 | 214 | 238 | 165 | 1,499 | 250 |
| Nursing care | 2,014 | 2,889 | 1,468 | 224 | 238 | 121 | 134 | 839 | 64 |
| Meal/nutrition | 1,462 | 273 | 199 | 98 | 77 | 93 | 40 | 440 | 77 |
| Nursing care, others | 1,524 | 3,347 | 1,265 | 104 | 55 | 51 | 148 | 536 | 35 |
| Supply transportation | 47 | 9 | 11 | 9 | 6 | 5 | 2 | 20 | 7 |
| Radiation control | 17 | 4 | 4 | 1 | 1 | 3 | 1 | 8 | 4 |
| Medical record and information management | 489 | 33 | 91 | 48 | 16 | 43 | 13 | 182 | 61 |
| Explanation to patient/family | 238 | 37 | 90 | 46 | 14 | 37 | 9 | 102 | 35 |
| Facility | 58 | 18 | 14 | 9 | 5 | 1 | 4 | 22 | 11 |
| Others | 3,798 | 2,054 | 1,437 | 921 | 582 | 686 | 395 | 2,062 | 328 |
| Total | 35,253 | 17,629 | 10,723 | 4,591 | 3,154 | 2,719 | 1,960 | 15,080 | 2,246 |

| Coordination | Record documentation | Similarity in patient's appearance (face, age) or name | Working condition | Environment | Medical/dental equipment, instrument, material | Drug | Other items | Facility | Education/training | Explanation to patient/family | Others | Total |
|--------------|----------------------|--|-------------------|-------------|--|-------|-------------|----------|--------------------|----------------------------------|--------|---------|
| 196 | 53 | 9 | 122 | 4 | 10 | 16 | 3 | 3 | 56 | 15 | 42 | 1,714 |
| 486 | 107 | 12 | 244 | 14 | 13 | 28 | 6 | 8 | 130 | 62 | 68 | 4,029 |
| 170 | 40 | 6 | 202 | 14 | 8 | 87 | 8 | 3 | 70 | 21 | 62 | 2,854 |
| 1,818 | 440 | 44 | 2,801 | 98 | 103 | 630 | 51 | 25 | 988 | 640 | 543 | 33,385 |
| 121 | 44 | 4 | 379 | 21 | 38 | 274 | 24 | 11 | 66 | 15 | 96 | 4,066 |
| 40 | 7 | 0 | 36 | 3 | 2 | 5 | 1 | 2 | 26 | 4 | 15 | 601 |
| 203 | 15 | 1 | 94 | 13 | 55 | 4 | 11 | 5 | 66 | 23 | 56 | 1,960 |
| 12 | 0 | 0 | 10 | 2 | 2 | 2 | 0 | 0 | 4 | 2 | 5 | 150 |
| 3 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 55 |
| 73 | 13 | 2 | 73 | 7 | 22 | 9 | 9 | 4 | 31 | 41 | 34 | 1,264 |
| 64 | 13 | 0 | 104 | 12 | 14 | 9 | 3 | 4 | 34 | 29 | 25 | 1,345 |
| 28 | 0 | 4 | 27 | 1 | 1 | 0 | 2 | 1 | 4 | 21 | 21 | 357 |
| 147 | 15 | 2 | 207 | 25 | 291 | 7 | 34 | 14 | 137 | 40 | 64 | 3,719 |
| 483 | 29 | 4 | 1,632 | 116 | 225 | 38 | 73 | 18 | 302 | 1,088 | 398 | 17,250 |
| 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 592 | 92 | 60 | 724 | 37 | 82 | 24 | 32 | 20 | 274 | 183 | 215 | 9,493 |
| 429 | 20 | 11 | 1,029 | 155 | 102 | 27 | 94 | 37 | 258 | 1,314 | 338 | 11,805 |
| 177 | 34 | 5 | 202 | 20 | 7 | 2 | 8 | 6 | 64 | 51 | 115 | 3,450 |
| 186 | 8 | 3 | 1,126 | 306 | 44 | 21 | 107 | 58 | 128 | 1,623 | 482 | 11,157 |
| 8 | 1 | 2 | 7 | 5 | 4 | 1 | 3 | 2 | 4 | 1 | 5 | 159 |
| 5 | 0 | 0 | 4 | 0 | 1 | 0 | 2 | 1 | 5 | 1 | 0 | 62 |
| 102 | 45 | 12 | 92 | 8 | 8 | 3 | 4 | 6 | 46 | 27 | 35 | 1,364 |
| 74 | 10 | 4 | 70 | 2 | 2 | 1 | 1 | 1 | 24 | 181 | 15 | 993 |
| 12 | 0 | 0 | 13 | 6 | 11 | 0 | 7 | 27 | 9 | 6 | 10 | 243 |
| 751 | 282 | 27 | 1,477 | 172 | 94 | 40 | 25 | 60 | 427 | 784 | 5,017 | 21,419 |
| 6,181 | 1,268 | 212 | 10,682 | 1,041 | 1,141 | 1,228 | 509 | 316 | 3,153 | 6,172 | 7,661 | 132,919 |

Fig. II-2-20 Situation and Cause (21st Report)

| Situation and Cause ^(Note 1) | Check | Observation | Judgment | Knowledge | Technique (skill) | Reporting, etc. | Physical condition | Psychological condition | System |
|--|--------|-------------|----------|-----------|-------------------|-----------------|--------------------|-------------------------|--------|
| Ordering/instruction | 505 | 64 | 94 | 48 | 16 | 65 | 23 | 181 | 71 |
| Communication process | 1,111 | 84 | 274 | 170 | 37 | 248 | 39 | 497 | 189 |
| Drug preparation | 815 | 90 | 108 | 83 | 62 | 49 | 44 | 331 | 53 |
| Prescription/drug administration | 10,487 | 2,023 | 1,900 | 1,011 | 550 | 592 | 470 | 4,699 | 595 |
| Dispensing, drug management, etc. | 1,270 | 154 | 157 | 106 | 80 | 36 | 64 | 591 | 51 |
| Blood transfusion | 192 | 29 | 57 | 56 | 29 | 15 | 11 | 81 | 19 |
| Surgery | 490 | 152 | 117 | 73 | 81 | 54 | 17 | 220 | 35 |
| Anesthesia | 33 | 14 | 10 | 10 | 15 | 5 | 6 | 24 | 6 |
| Delivery/mechanical abortion | 18 | 9 | 10 | 1 | 5 | 2 | 1 | 6 | 0 |
| Treatment, others | 304 | 138 | 125 | 45 | 62 | 29 | 23 | 173 | 25 |
| Procedure | 267 | 129 | 93 | 55 | 62 | 30 | 16 | 139 | 17 |
| Examination/interview | 86 | 23 | 27 | 13 | 5 | 16 | 7 | 42 | 8 |
| Use/management of medical equipment (device) | 1,006 | 334 | 195 | 210 | 156 | 50 | 43 | 457 | 61 |
| Use/management of drainage tube or other tube | 3,491 | 4,529 | 1,752 | 385 | 451 | 112 | 224 | 1,188 | 70 |
| Use/management of dental equipment (device)/material | 4 | 2 | 2 | 0 | 2 | 0 | 0 | 2 | 0 |
| Examination/test | 2,921 | 364 | 533 | 337 | 185 | 226 | 133 | 1,328 | 213 |
| Nursing care | 2,044 | 2,929 | 1,364 | 191 | 194 | 116 | 148 | 778 | 70 |
| Meal/nutrition | 1,273 | 217 | 172 | 70 | 57 | 107 | 32 | 398 | 72 |
| Nursing care, others | 1,575 | 3,595 | 1,279 | 98 | 79 | 75 | 185 | 587 | 53 |
| Supply transportation | 43 | 6 | 9 | 4 | 2 | 1 | 2 | 19 | 4 |
| Radiation control | 8 | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 |
| Medical record and information management | 406 | 39 | 49 | 32 | 8 | 21 | 14 | 152 | 43 |
| Explanation to patient/family | 240 | 40 | 93 | 29 | 5 | 37 | 10 | 113 | 27 |
| Facility | 50 | 16 | 15 | 10 | 4 | 3 | 4 | 20 | 7 |
| Others | 3,589 | 1,884 | 1,296 | 684 | 451 | 526 | 341 | 1,759 | 265 |
| Total | 32,228 | 16,864 | 9,732 | 3,723 | 2,598 | 2,415 | 1,858 | 13,787 | 1,954 |

| Coordination | Record documentation | Similarity in patient's appearance (face, age) or name | Working condition | Environment | Medical/dental equipment, instrument, material | Drug | Other items | Facility | Education/training | Explanation to patient/family | Others | Total |
|--------------|----------------------|---|-------------------|-------------|---|-------|-------------|----------|--------------------|-------------------------------|--------|---------|
| 163 | 52 | 10 | 101 | 9 | 7 | 14 | 4 | 6 | 47 | 18 | 54 | 1,552 |
| 460 | 97 | 11 | 254 | 21 | 17 | 29 | 6 | 13 | 111 | 88 | 53 | 3,809 |
| 126 | 38 | 4 | 180 | 16 | 12 | 109 | 11 | 6 | 48 | 26 | 54 | 2,265 |
| 1,687 | 428 | 51 | 2,620 | 85 | 100 | 590 | 43 | 22 | 819 | 610 | 520 | 29,902 |
| 106 | 35 | 6 | 314 | 15 | 34 | 271 | 7 | 4 | 59 | 11 | 113 | 3,484 |
| 53 | 13 | 2 | 47 | 7 | 6 | 4 | 4 | 4 | 36 | 5 | 12 | 682 |
| 175 | 9 | 1 | 81 | 13 | 38 | 6 | 10 | 3 | 47 | 29 | 61 | 1,712 |
| 10 | 3 | 1 | 10 | 3 | 5 | 5 | 0 | 4 | 7 | 6 | 6 | 183 |
| 7 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 4 | 74 |
| 67 | 12 | 4 | 78 | 12 | 21 | 11 | 10 | 8 | 27 | 30 | 44 | 1,248 |
| 45 | 8 | 2 | 80 | 9 | 12 | 7 | 6 | 2 | 24 | 20 | 31 | 1,054 |
| 27 | 3 | 6 | 19 | 1 | 2 | 1 | 2 | 1 | 7 | 21 | 7 | 324 |
| 131 | 13 | 0 | 212 | 28 | 332 | 7 | 52 | 13 | 127 | 17 | 80 | 3,524 |
| 375 | 31 | 6 | 1,635 | 117 | 228 | 43 | 71 | 19 | 281 | 1,158 | 401 | 16,567 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 15 |
| 499 | 94 | 41 | 653 | 33 | 76 | 19 | 36 | 12 | 221 | 165 | 200 | 8,289 |
| 324 | 24 | 14 | 1,018 | 165 | 116 | 23 | 104 | 27 | 229 | 1,314 | 423 | 11,615 |
| 154 | 39 | 7 | 189 | 25 | 8 | 5 | 20 | 11 | 74 | 54 | 107 | 3,091 |
| 198 | 14 | 6 | 1,160 | 327 | 43 | 22 | 125 | 56 | 167 | 1,695 | 620 | 11,959 |
| 8 | 1 | 0 | 4 | 0 | 0 | 0 | 4 | 1 | 4 | 1 | 0 | 113 |
| 2 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 22 |
| 73 | 45 | 13 | 72 | 6 | 7 | 5 | 11 | 4 | 33 | 14 | 33 | 1,080 |
| 88 | 5 | 9 | 60 | 6 | 5 | 1 | 5 | 0 | 23 | 161 | 30 | 987 |
| 7 | 2 | 0 | 13 | 11 | 6 | 2 | 3 | 31 | 5 | 12 | 11 | 232 |
| 662 | 251 | 17 | 1,317 | 145 | 81 | 38 | 21 | 58 | 305 | 704 | 4,949 | 19,343 |
| 5,448 | 1,217 | 211 | 10,122 | 1,054 | 1,160 | 1,212 | 555 | 306 | 2,707 | 6,160 | 7,815 | 123,126 |

Fig. II-2-21 Situation and Cause (22nd Report)

| Situation and Cause (Note 1) | Check | Observation | Judgment | Knowledge | Technique (skill) | Reporting, etc. | Physical condition | Psychological condition | System |
|--|--------|-------------|----------|-----------|-------------------|-----------------|--------------------|-------------------------|--------|
| Ordering/instruction | 544 | 55 | 81 | 52 | 26 | 89 | 17 | 203 | 98 |
| Communication process | 1,163 | 82 | 222 | 121 | 30 | 210 | 39 | 448 | 171 |
| Drug preparation | 740 | 69 | 104 | 76 | 42 | 36 | 37 | 292 | 46 |
| Prescription/drug administration | 9,809 | 1,856 | 1,610 | 790 | 398 | 584 | 396 | 4,156 | 462 |
| Dispensing, drug management, etc. | 1,393 | 137 | 121 | 88 | 61 | 28 | 79 | 581 | 69 |
| Blood transfusion | 183 | 31 | 44 | 35 | 13 | 14 | 10 | 74 | 14 |
| Surgery | 385 | 132 | 88 | 50 | 53 | 50 | 23 | 165 | 31 |
| Anesthesia | 21 | 8 | 4 | 5 | 10 | 2 | 5 | 13 | 1 |
| Delivery/mechanical abortion | 12 | 7 | 8 | 0 | 1 | 2 | 0 | 3 | 3 |
| Treatment, others | 239 | 172 | 113 | 39 | 52 | 24 | 15 | 106 | 14 |
| Procedure | 257 | 100 | 98 | 51 | 52 | 28 | 17 | 129 | 17 |
| Examination/interview | 103 | 24 | 21 | 9 | 5 | 8 | 3 | 42 | 7 |
| Use/management of medical equipment (device) | 968 | 308 | 164 | 173 | 117 | 46 | 65 | 383 | 61 |
| Use/management of drainage tube or other tube | 3,231 | 4,545 | 1,629 | 287 | 356 | 95 | 216 | 1,129 | 78 |
| Use/management of dental equipment (device)/material | 7 | 1 | 0 | 2 | 1 | 1 | 0 | 1 | 0 |
| Examination/test | 2,585 | 342 | 429 | 273 | 200 | 179 | 123 | 1,138 | 180 |
| Nursing care | 2,010 | 2,947 | 1,165 | 164 | 190 | 97 | 143 | 817 | 66 |
| Meal/nutrition | 1,211 | 204 | 157 | 74 | 62 | 60 | 31 | 348 | 78 |
| Nursing care, others | 1,385 | 3,332 | 1,172 | 89 | 42 | 46 | 129 | 524 | 36 |
| Supply transportation | 37 | 4 | 7 | 3 | 2 | 1 | 2 | 20 | 1 |
| Radiation control | 6 | 2 | 1 | 0 | 0 | 1 | 0 | 3 | 2 |
| Medical record and information management | 387 | 39 | 51 | 29 | 13 | 23 | 7 | 163 | 47 |
| Explanation to patient/family | 214 | 27 | 58 | 28 | 5 | 22 | 10 | 98 | 27 |
| Facility | 47 | 9 | 21 | 7 | 4 | 4 | 2 | 17 | 7 |
| Others | 2,998 | 1,599 | 1,131 | 558 | 378 | 450 | 278 | 1,336 | 285 |
| Total | 29,935 | 16,032 | 8,499 | 3,003 | 2,113 | 2,100 | 1,647 | 12,189 | 1,801 |

| Coordination | Record documentation | Similarity in patient's appearance (face, age) or name | Working condition | Environment | Medical/dental equipment, instrument, material | Drug | Other items | Facility | Education/training | Explanation to patient/family | Others | Total |
|--------------|----------------------|---|-------------------|-------------|--|-------|-------------|----------|--------------------|-------------------------------|--------|---------|
| 178 | 52 | 9 | 124 | 10 | 8 | 14 | 5 | 5 | 43 | 21 | 49 | 1,683 |
| 380 | 119 | 6 | 259 | 12 | 8 | 22 | 13 | 3 | 95 | 50 | 41 | 3,494 |
| 103 | 27 | 2 | 162 | 9 | 8 | 81 | 8 | 2 | 37 | 23 | 19 | 1,923 |
| 1,604 | 415 | 44 | 2,528 | 94 | 67 | 546 | 50 | 15 | 704 | 545 | 286 | 26,959 |
| 132 | 42 | 3 | 357 | 10 | 29 | 255 | 20 | 11 | 64 | 11 | 70 | 3,561 |
| 40 | 1 | 2 | 34 | 2 | 5 | 1 | 2 | 2 | 24 | 2 | 8 | 541 |
| 133 | 14 | 0 | 65 | 11 | 42 | 7 | 10 | 1 | 39 | 23 | 56 | 1,378 |
| 6 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 2 | 4 | 5 | 92 |
| 7 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 3 | 3 | 2 | 56 |
| 51 | 7 | 1 | 71 | 11 | 16 | 5 | 9 | 7 | 14 | 32 | 31 | 1,029 |
| 61 | 5 | 1 | 72 | 8 | 16 | 4 | 4 | 1 | 15 | 26 | 24 | 986 |
| 41 | 0 | 9 | 24 | 2 | 1 | 0 | 0 | 1 | 8 | 22 | 2 | 332 |
| 135 | 9 | 1 | 228 | 18 | 310 | 7 | 38 | 6 | 100 | 17 | 36 | 3,190 |
| 380 | 30 | 5 | 1,603 | 122 | 190 | 22 | 80 | 11 | 243 | 1,026 | 336 | 15,614 |
| 1 | 0 | 0 | 1 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 20 |
| 463 | 77 | 50 | 567 | 35 | 61 | 13 | 28 | 15 | 179 | 135 | 182 | 7,254 |
| 329 | 15 | 8 | 1,075 | 177 | 85 | 24 | 108 | 32 | 206 | 1,182 | 231 | 11,071 |
| 165 | 32 | 3 | 163 | 11 | 4 | 0 | 11 | 7 | 76 | 45 | 47 | 2,789 |
| 152 | 9 | 2 | 1,078 | 321 | 32 | 27 | 110 | 69 | 147 | 1,702 | 496 | 10,900 |
| 5 | 0 | 0 | 9 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 4 | 100 |
| 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 20 |
| 75 | 48 | 17 | 80 | 8 | 6 | 2 | 6 | 3 | 31 | 17 | 17 | 1,069 |
| 62 | 5 | 2 | 59 | 3 | 3 | 2 | 2 | 0 | 13 | 152 | 7 | 799 |
| 8 | 1 | 0 | 8 | 9 | 5 | 1 | 5 | 28 | 7 | 3 | 6 | 199 |
| 556 | 233 | 25 | 1,050 | 140 | 47 | 32 | 20 | 81 | 267 | 702 | 4,160 | 16,326 |
| 5,070 | 1,141 | 190 | 9,623 | 1,016 | 951 | 1,066 | 531 | 300 | 2,320 | 5,743 | 6,115 | 111,385 |

Fig. II-2-22 Situation and Cause (Aggregated Table, 19th to 22nd Reports)

| Situation and Cause (Note 1) | Check | Observation | Judgment | Knowledge | Technique (skill) | Reporting, etc. | Physical condition | Psychological condition | System |
|--|---------|-------------|----------|-----------|-------------------|-----------------|--------------------|-------------------------|--------|
| Ordering/instruction | 2,095 | 248 | 337 | 196 | 71 | 281 | 79 | 724 | 326 |
| Communication process | 4,480 | 386 | 1,011 | 563 | 139 | 887 | 155 | 1,822 | 716 |
| Drug preparation | 3,268 | 340 | 482 | 313 | 234 | 165 | 142 | 1,311 | 185 |
| Prescription/drug administration | 40,816 | 7,754 | 7,266 | 3,825 | 1,999 | 2,288 | 1,754 | 17,592 | 2,210 |
| Dispensing, drug management, etc. | 5,536 | 612 | 589 | 401 | 340 | 140 | 293 | 2,525 | 262 |
| Blood transfusion | 701 | 125 | 193 | 160 | 94 | 58 | 39 | 312 | 71 |
| Surgery | 1,858 | 579 | 436 | 281 | 293 | 214 | 74 | 789 | 144 |
| Anesthesia | 127 | 52 | 38 | 28 | 55 | 9 | 14 | 70 | 11 |
| Delivery/mechanical abortion | 57 | 23 | 29 | 6 | 17 | 7 | 2 | 25 | 4 |
| Treatment, others | 1,058 | 593 | 467 | 151 | 225 | 105 | 71 | 533 | 84 |
| Procedure | 1,068 | 445 | 410 | 229 | 252 | 137 | 71 | 540 | 69 |
| Examination/interview | 352 | 90 | 112 | 41 | 27 | 44 | 22 | 144 | 32 |
| Use/management of medical equipment (device) | 3,875 | 1,349 | 731 | 751 | 602 | 176 | 196 | 1,625 | 232 |
| Use/management of drainage tube or other tube | 13,499 | 18,191 | 7,055 | 1,413 | 1,765 | 446 | 886 | 4,730 | 296 |
| Use/management of dental equipment (device)/material | 23 | 11 | 5 | 4 | 8 | 1 | 0 | 8 | 0 |
| Examination/test | 11,403 | 1,485 | 1,996 | 1,252 | 752 | 823 | 540 | 5,121 | 832 |
| Nursing care | 7,798 | 11,396 | 5,294 | 714 | 818 | 432 | 536 | 3,152 | 247 |
| Meal/nutrition | 5,016 | 893 | 643 | 296 | 241 | 305 | 128 | 1,515 | 304 |
| Nursing care, others | 5,805 | 13,306 | 4,971 | 375 | 238 | 213 | 629 | 2,185 | 156 |
| Supply transportation | 163 | 21 | 35 | 19 | 12 | 9 | 6 | 72 | 17 |
| Radiation control | 39 | 6 | 8 | 3 | 1 | 4 | 2 | 17 | 8 |
| Medical record and information management | 1,650 | 141 | 248 | 125 | 49 | 108 | 42 | 616 | 185 |
| Explanation to patient/family | 872 | 132 | 309 | 130 | 30 | 120 | 33 | 384 | 107 |
| Facility | 195 | 57 | 65 | 32 | 16 | 11 | 11 | 75 | 29 |
| Others | 11,805 | 6,357 | 4,363 | 2,340 | 1,535 | 1,837 | 1,095 | 5,740 | 953 |
| Total | 123,559 | 64,592 | 37,093 | 13,648 | 9,813 | 8,820 | 6,820 | 51,627 | 7,480 |

Fig. II-2-23 Situation and Effect

| Ch | | Slight e | effect or | ı patier | nt | M | loderate | e effect | on pati | ent |] | Major (| effect o | n patiei | nt |
|--|------------------|------------------|------------------|------------------|--------|------------------|------------------|------------------|------------------|-------|------------------|------------------|------------------|------------------|-------|
| Situation and Effect | 19 th | 20 th | 21 st | 22 nd | Total | 19 th | 20 th | 21 st | 22 nd | Total | 19 th | 20 th | 21 st | 22 nd | Total |
| Ordering/instruction | 167 | 144 | 131 | 194 | 636 | 24 | 34 | 30 | 27 | 115 | 8 | 3 | 11 | 7 | 29 |
| Communication process | 180 | 227 | 213 | 228 | 848 | 47 | 61 | 43 | 50 | 201 | 29 | 29 | 20 | 29 | 107 |
| Drug preparation | 237 | 472 | 363 | 304 | 1,376 | 39 | 55 | 43 | 35 | 172 | 8 | 10 | 13 | 11 | 42 |
| Prescription/drug administration | 1,130 | 1,422 | 1,176 | 1,090 | 4,818 | 233 | 299 | 225 | 250 | 1,007 | 180 | 237 | 171 | 246 | 834 |
| Dispensing, drug management, etc. | 673 | 654 | 554 | 626 | 2,507 | 94 | 113 | 87 | 80 | 374 | 27 | 15 | 18 | 20 | 80 |
| Blood transfusion | 36 | 40 | 42 | 32 | 150 | 10 | 7 | 8 | 12 | 37 | 8 | 8 | 9 | 12 | 37 |
| Surgery | 59 | 108 | 83 | 72 | 322 | 56 | 80 | 64 | 53 | 253 | 17 | 28 | 12 | 18 | 75 |
| Anesthesia | 5 | 9 | 4 | 2 | 20 | 2 | 6 | 2 | 4 | 14 | 2 | 2 | 3 | 1 | 8 |
| Delivery/mechanical abortion | 1 | 0 | 2 | 1 | 4 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 |
| Treatment, others | 31 | 40 | 43 | 32 | 146 | 16 | 32 | 19 | 14 | 81 | 9 | 8 | 6 | 7 | 30 |
| Procedure | 30 | 36 | 32 | 34 | 132 | 14 | 23 | 22 | 12 | 71 | 10 | 18 | 16 | 10 | 54 |
| Examination/interview | 18 | 26 | 23 | 21 | 88 | 4 | 6 | 6 | 3 | 19 | 5 | 0 | 3 | 2 | 10 |
| Use/management of medical equipment (device) | 102 | 143 | 144 | 120 | 509 | 54 | 65 | 69 | 59 | 247 | 40 | 42 | 59 | 38 | 179 |
| Use/management of drainage tube or other tube | 293 | 411 | 384 | 344 | 1,432 | 262 | 252 | 297 | 313 | 1,124 | 136 | 90 | 133 | 116 | 475 |
| Use/management of dental equipment (device)/material | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 2 | 1 | 6 | 0 | 0 | 0 | 0 | 0 |
| Examination/test | 454 | 635 | 530 | 462 | 2,081 | 85 | 97 | 99 | 67 | 348 | 20 | 21 | 15 | 20 | 76 |
| Nursing care | 414 | 481 | 462 | 348 | 1,705 | 174 | 232 | 192 | 163 | 761 | 42 | 46 | 50 | 48 | 186 |
| Meal/nutrition | 239 | 396 | 321 | 249 | 1,205 | 23 | 46 | 64 | 52 | 185 | 24 | 13 | 19 | 13 | 69 |
| Nursing care, others | 229 | 277 | 317 | 291 | 1,114 | 90 | 114 | 109 | 99 | 412 | 76 | 58 | 70 | 78 | 282 |
| Supply transportation | 15 | 11 | 9 | 13 | 48 | 1 | 3 | 3 | 3 | 10 | 0 | 2 | 0 | 0 | 2 |
| Radiation control | 3 | 4 | 2 | 1 | 10 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Medical record and information management | 74 | 118 | 96 | 95 | 383 | 8 | 16 | 10 | 17 | 51 | 2 | 3 | 7 | 5 | 17 |
| Explanation to patient/family | 42 | 40 | 44 | 54 | 180 | 9 | 10 | 8 | 7 | 34 | 9 | 4 | 5 | 2 | 20 |
| Facility | 24 | 17 | 16 | 10 | 67 | 2 | 9 | 6 | 4 | 21 | 4 | 3 | 3 | 1 | 11 |
| Others | 471 | 1,027 | 946 | 952 | 3,396 | 144 | 531 | 426 | 623 | 1,724 | 58 | 89 | 120 | 264 | 531 |
| Total | 4,927 | 6,738 | 5,938 | 5,575 | 23,178 | 1,391 | 2,097 | 1,835 | 1,948 | 7,271 | 714 | 730 | 763 | 948 | 3,155 |

Fig. II-2-24 Day of Occurrence and Weekday/Holiday Category

| Day of | | | Weekday | | | | | Holiday | | |
|-------------|------------------|------------------|---------|------------------|---------|------------------|------------------|---------|------------------|--------|
| occurrence | 19 th | 20 th | 21st | 22 nd | Total | 19 th | 20 th | 21st | 22 nd | Total |
| Monday | 5,507 | 7,212 | 5,984 | 6,292 | 24,995 | 371 | 51 | 305 | 206 | 933 |
| Tuesday | 5,791 | 7,502 | 6,987 | 6,859 | 27,139 | 364 | 17 | 16 | 14 | 411 |
| Wednesday | 6,601 | 7,491 | 7,234 | 7,000 | 28,326 | 20 | 297 | 13 | 28 | 358 |
| Thursday | 6,747 | 7,468 | 7,201 | 6,656 | 28,072 | 22 | 261 | 63 | 233 | 579 |
| Friday | 6,594 | 7,319 | 7,039 | 6,371 | 27,323 | 30 | 261 | 85 | 403 | 779 |
| Saturday | 1,863 | 2,103 | 2,237 | 1,989 | 8,192 | 2,643 | 3,471 | 3,496 | 3,074 | 12,684 |
| Sunday | 285 | 327 | 259 | 264 | 1,135 | 3,808 | 4,207 | 4,060 | 4,383 | 16,458 |
| Day unknown | 35 | 51 | 21 | 29 | 136 | 10 | 9 | 8 | 5 | 32 |
| Total | 33,423 | 39,473 | 36,962 | 35,460 | 145,318 | 7,268 | 8,574 | 8,046 | 8,346 | 32,234 |

| | | Unknow | n | | Aggregate |
|-------|-------|--------|------------------|--------|-----------|
| 19 th | 20 th | 21st | 22 nd | Total | total |
| 280 | 697 | 636 | 600 | 2,213 | 28,141 |
| 272 | 730 | 726 | 624 | 2,352 | 29,902 |
| 322 | 747 | 716 | 672 | 2,457 | 31,141 |
| 313 | 770 | 704 | 578 | 2,365 | 31,016 |
| 295 | 691 | 789 | 683 | 2,458 | 30,560 |
| 243 | 515 | 561 | 501 | 1,820 | 22,696 |
| 190 | 337 | 442 | 407 | 1,376 | 18,969 |
| 147 | 1,491 | 1,187 | 191 | 3,016 | 3,184 |
| 2,062 | 5,978 | 5,761 | 4,256 | 18,057 | 195,609 |

III. Current Analysis of Medical Near-Miss/Adverse Event Information

Both medical adverse event information and medical near-miss information were collected in the project started in 2004. Since 2005, medical adverse event information and medical near-miss information covered by individual themes have been comprehensively analyzed.

1 Project Overview and Expert Division Activities

[1] Selection of Themes for Information to be Analyzed

Themes for information to be analyzed have been selected based on expert opinions and in light of (1) generality/universality, (2) event frequency, (3) effect on patients, (4) preventability/avoidability, and (5) nature as object lesson.

[2] Information to be Analyzed

Among medical adverse event information and medical near-miss information provided for the project, those covered by predetermined themes were selected and analyzed. Regarding medical near-miss information, individual Analysis Groups have determined relevant themes related to reported events and been collecting descriptive information.

[3] Analysis System

Analysis Groups consisting of medical safety experts have been reviewing all reported incidents/cases to understand their outlines and determine direction of analysis.

Individual Analysis Group meetings have been held separately to analyze cases covered by individual themes.

[4] Meetings

Management Committee (a subcommittee specified in the JCQHC act of endowment) meetings and Comprehensive Evaluating Panel meetings for this project held between January 1 and December 31, 2006 are shown below.

(1) Management Committee meeting

Management Committee meetings were held 2 times between January 1, 2006 and December 31, 2006.

Fig. III-1-1 Management Committee Meeting

| | Date | Agenda |
|-----------------|------------|--|
| 5 th | 02/10/2006 | Current status of 2005 activities of Center for Medical Adverse Event Prevention Current status of 2005 activities of Medical Safety Support Center Comprehensive Support Project 2006 Project plan for Project to Collect Medical Near-Miss/Adverse Event Information (proposal) 2006 Budget for Project to Collect Medical Near-Miss/Adverse Event Information (proposal) |
| 6 th | 05/31/2006 | Outcome of 2005 Medical Safety Support Center Comrehensive Sapport Project Outcome of 2005 Project to Collect Medical Near-Miss/Adverse Event Information |

(2) Comprehensive Evaluation Panel meeting

Comprehensive Evaluation Panel meetings were held 5 times between January 1, 2006 and December 31, 2006.

Fig. III-1-2 Comprehensive Evaluation Panel Meeting

| | Date | Agenda |
|------------------|------------|--|
| 8 th | 01/20/2006 | Project to Collect Medical Near-Miss/Adverse Event Information 4 th Report (proposal) |
| 9 th | 04/26/2006 | 2006 Project to Collect Medical Near-Miss/Adverse Event Information Project to Collect Medical Near-Miss/Adverse Event Information 5th Report (proposal) Workshop hosted by Center for Medical Adverse Event Prevention |
| 10 th | 07/26/2006 | Project to Collect Medical Near-Miss/Adverse Event Information 2008 Annual Report (proposal) Project to Collect Medical Near-Miss/Adverse Event Information 6th Report (proposal) |
| 11 th | 10/05/2006 | Provision of medical safety information in Project to Collect Medical Near-Miss/Adverse Event Information |
| 12 th | 10/31/2006 | Project to Collect Medical Near-Miss/Adverse Event Information 7th Report (proposal) Provision of medical safety information in Project to Collect Medical Near-Miss/Adverse Event Information |

[5] Expert Analysis Group Meeting

At meetings held once or twice a month, Expert Analysis Groups consisting of medical safety experts review all reported incidents/cases to understand their outlines and determine direction of analysis.

Also once or twice a month, individual Analysis Group meetings are held separately to analyze cases covered by individual themes.

Analysis Group meetings have been held on topics of "foreign objects retained during surgeries," "medical adverse events associated with use of medical devices," and "medical adverse events associated with drugs." Other than meetings to analyze cases covered by individual themes, "Important Medical Near-Miss Case Database Development Group" has been established as another expert analysis group to select especially important medical near-miss cases and develop a relevant database.

[6] Collection of Follow-Up Information of Medical Adverse Event Cases

When an Analysis Group determines that further detailed case information from the medical institution is necessary for analysis, it makes written inquiries to the reporting medical institution or, if the institution agrees to cooperate, visits the institution to collect follow-up information. Follow-up information obtained is used as data at Expert Analysis Group meetings.

In 2006, follow-up information on 107 medical adverse events was requested in writing. The breakdown is 54 events related to drugs, 28 events related to medical devices, 4 events related to medical procedures, 4 events related to patient misidentification and errors in surgery/treatment site, 1 event related to examination, as well asnd other 16 other events including retained foreign objects.

Reporting institutions were visited to collect follow-up information on 12 events. The breakdown is 5 events related to drugs, 1 event related to medical devices, 3 events related to medical procedures, 2 events related to patient misidentification and errors in surgery/treatment site, and 1 other 1 event.

2. Individual Theme Review by Expert Division

The 2007 annual report summarizes medical adverse events reported between January 1 and December 31, 2006 in the fifth to the 8th periodic reports. Medical adverse events reported before 2006 are also included as Notes.

[1] Medical Adverse Events Related to Drugs

Seventy-six medical adverse events related to drugs reported between January 1 and December 31, 2006 were analyzed. Summaries of the reported events are shown in Fig. III-1.

(1) Details of medical adverse events related to drugs

In summarizing individual medical adverse events, the flow of drug therapy is categorized into ordering, receiving order/briefing, preparation, drug administration, observation and management after drug therapy, and others (Fig. III-2).

A. Ordering

The fifth report included five events. Two events involved a mix-up of similar drugs, one event involved the use of a contraindicated drug with an allergic patient, one event involved dose miscalculation, and one event involved the use of anticoagulant in a patient whose subdural hematoma was unnoticed.

The sixth report included six events. Four events involved errors in prescribed doses and one event involved an error in the oral dose order. One event involved discontinuation of anticoagulant without double-checking the order.

The seventh report included one event involving antiarrhythmic overdose due to the other physician's misunderstanding of the attending physician's order.

The eighth report included ten events. Four events involved drug overdose in patients treated at multiple medical institutions due to the current physicians' misunderstanding of prescriptions or referrals issued by previous physicians. All four events involved a mix-up of the amount of ingredients [content of drug (active ingredient) in the preparation] (Note 1) and the amount of preparation (amount of drug prepared in appropriate properties and form by processing the drug with the excipient) (Note 2).

Some medical institutions put the precaution "doses shown in terms of the content of active ingredients" in the margin of outpatient prescriptions as part of the preventive measures.

⁽Note 1) While drugs containing a single substance can be prescribed in terms of their content, those containing multiple substances cannot be

⁽Note 2) The terms "amount of ingredient" and "amount of preparation" are used in accordance with Standard for Questions in National Examination for Pharmacists (MHLW Food and Drug Safety Bureau No. 0310002; March 10, 2004).

B. Receiving order/briefing

The fifth report included two events. One event involved oral miscommunication of the drug administration route and the other involved inappropriate drug administration due to a misunderstanding of the order.

The sixth report included one event involving prescription mix-up of comparable drugs.

The seventh report included one event involving multiple errors in a physician's order and its receipt by a nurse.

The eighth report included no events.

C. Preparation

The fifth report included seven events. One event involved a drug mix-up, four events involved the wrong dose, one event involved the wrong drug concentration, and one event involved the wrong duration of treatment.

The sixth report included three events. Two events involved mix-up of drugs with similar appearance or name, and one event involved wrong dose.

The seventh report included six events. Four events involved a drug mix-up in dispensing, and one event involved a measurement error. The negligent overdose of a drug the inpatient had brought with him when he was admitted and subsequently kept by the nursing staff occurred in one event.

The eighth report included four events. Three of the events involved an overdose as the result of misreading a digit in drug preparation.

D. Drug administration

The fifth report included one event involving the use of the same drug that was to be given to another patient.

The sixth report included five events. One event involved a drug mix-up, two events involved the wrong dose due to the wrong setting on the syringe pump, and one event involved the wrong insulin dose. The addition of drug during continuous epidural infusion leading to shock occurred in one event.

The seventh report included six events. One event involved a drug mix-up due to negligent patient identification using the drug barcode, two events involved the wrong injection dose, and two events involved the wrong administration route. A mix-up of patient names after removing the drug from the bag and putting the patient's name on the tape occurred in one event. Preventive measures proposed after the event occurred included (1) a requirement that information required for patient care be entered into the ordering system, not hand written; (2) a requirement that drugs be brought to the bedside without removing them from the bags, and a prohibition that patients' names be written on the tape; and (3) a requirement that the patient name on the bag be cross-checked with the drug in the presence of the patient.

The eighth report included two events. One event involved a mix-up of similar patient names, and the other event involved an intravenous injection overdose.

E. Observation and monitoring after drug therapy

The fifth report included two events. Both events involved cardiopulmonary arrest in an elderly patient after intravenous administration of flunitrazepam.

The sixth report included four events. Both events occurred during the examination. The

patient's condition changed after oral medication in two events and during anticoagulant therapy or chemotherapy in two events.

The seventh report included two events. In one event, the patient recovered from the adverse drug reaction associated with the pre-examination procedure but subsequently became ill. In the other event, the patient took sleeping pills and subsequently had respiratory failure during the examination.

The eighth report included one event involving an adverse reaction to a drug.

F. Others

The fifth report included three events categorized as "others." One event involved intestinal obstruction and subsequent intestinal necrosis due to pre-examination treatment, and another event involved disturbed consciousness after using a contrast medium. The other event involved an unavoidable adverse drug reaction.

The sixth report included one event related to the deterioration of an unexpired reagent. The event had been reported to the manufacturer who subsequently modified the reagent.

The eighth report included three events involving miscommunication of an allergy or a contraindicated drug. One medical institution had a system in which an allergy warning was displayed on the clinical terminals but it could be easily missed. The proposed corrective measures included the use of a conspicuous allergy warning.

(2) Types of drugs involved in the medical adverse events

Types of drugs involved in 76 events reported between January 1 and December 31, 2006 are summarized in Fig. III-3.

The fifth report included three events related to anti-tumor drugs, four events related to cardiovascular drugs, and two events related to anti-diabetics (insulin). Other types of drugs involved in the reported events included a central nervous system drug in one event and an antibiotic in the other event.

The sixth report included two events related to anti-tumor drugs, three events related to cardiovascular drugs, and two events related to anti-diabetics (insulin).

The seventh report included one event related to an anti-tumor drug, one event related to a cardiovascular drug, and one event related to sleeping pills.

The eighth report included four events related to anti-tumor drugs.

(3) Medical near-miss incidents related to drugs

Medical near-miss incidents reported in the 19th report (January to March 2006), the 20th report (April to June 2006), the 21st report (July to September 2006), and the 22nd report (October to December 2006) (Note 1) were analyzed. The flow of drug therapy is summarized with the five processes of ordering, receiving order/briefing, preparation, drug administration, and observation and management after drug therapy. The five processes are recorded on the vertical axis and the details of events are recorded on the horizontal axis (Fig. III-4).

⁽Note 1) See pages 5 and 6 for the 1st to the 18th medical near-miss incident reports.

Events occurred in the preparation step, which is one of the descriptive information items to be reported. Important drug-related events reported in the 19th to the 21st medical near-miss incident reports were also analyzed.

A matrix was created with the types of drugs, namely oral, external, injection, and others, on the vertical axis, and the types of medical near-miss incidents, namely drug mix-ups, wrong dose, patient mix-ups, dispensing errors, bag/label mix-ups, packaging machine malfunctions/defects, and others, on the horizontal axis (Fig. III-5).

Medical near-miss incidents occurring in the drug preparation process generally involve pharmacists. They are to be included in events that occur in the preparation process in this report.

Common drugs involved in events related to drug preparation, namely (i) mix-up of drug A and drug B because they have similar names and (ii) mix-up of drug A and drug B because they have similar efficacy reported in the 18th and the 19th medical near-miss incident reports (Figs. III-6 and III-7), and those involved in drug mix-ups due to similar appearance (outer package) as reported in the 18th, 19th, and 20th reports (Fig. III-8) were also summarized. Drugs involved in medical near-miss incidents caused by two factors are summarized in Fig. III-9. None of the reported incidents involved three or more factors.

<Note>

Seventy-one drug-related incidents reported in the 17th (July to September 2005) and the 18th (October to December 2005) medical near-miss incident reports ^(Note 1) not discussed in "Individual Theme Review by Expert Division" in the 2005 annual report are summarized in this report (Fig. III-10).

Incidents that occurred in the drug preparation process and reported in the 18^{th} medical near-miss incident report (Note 1) are also summarized (Fig. III-11).

Common medical near-miss incidents that occurred in the drug preparation process include the followings:

- i. Similar drug name
- ii. Similar dosage form
- iii. Similar package (heat-sealed package)
- iv. Similar efficacy

Fig. III-1 Summary of Medical Adverse Events Related to Drugs: 5th to 8th Reports

| No. | Process in which event occurred | Potential of residual disability | Summary | Periodic report |
|---------|---------------------------------|--|--|--------------------|
| [Drug n | nix-up] | | | |
| 1 | Ordering | Low | Mix-up of similar drugs in ordering | |
| 2 | Ordering | Low | Administration of a contraindicated drug to an allergic patient | 5 th |
| 3 | Preparation | Low | Administration of the same oral anti-tumor drug to be used with another patient | |
| 4 | Receiving order/briefing | Low | Prescription order for Allelock was mixed up with a similarly named drug, Aleric, and the latter drug was handed to the patient. | |
| 5 | Preparation | Low | Diamox was prescribed but Baktar with a similar appearance was included in the preparation instead. | 6 th |
| 6 | Preparation | Low | Almarl was mixed up with Amaryl in prescription, and the latter was prepared. | |
| 7 | Drug administration | Low | Mix-up with another eye drop stored in the same place | |
| 8 | Preparation | Unknown | Prescription of magnesium oxide instead of correct Biofermin The pharmacist who prepared the drug had made preparation errors three times in the past, which had been pointed out by the auditor. He/She was in a rush because the patient had pressed for the medication twice. | |
| 9 | Preparation | Unknown | Depakene granules were mixed up with Telesmin when filling a preparation bottle with the drug. The blood Depakene level in the patient who vomited was zero. The investigation detected the drug mix-up and identified seven patients who had received the wrong drug. The drug name was to be checked with the barcode reader and the record put on the container. However, the procedure was not followed because the container was empty. | |
| 10 | Preparation | Low | A physician consulted a pharmacist about using Kenketsu Venilon-I (a blood product) that had never been used at the hospital. The pharmacist ordered Kenketsu Glovenin-I (a blood product) instead and dispensed it to the ward. The wrong drug was used for three days without being noticed even by the ward nursing staff. | 7 th |
| 11 | Preparation | Low | The patient was immediately hospitalized with a suspected adverse drug reaction to an antiepileptic. Aleviatin was discontinued because of the elevated blood level, which remained high despite the treatment being discontinued. It turned out that Aleviatin was included in the outpatient prescription instead of Akineton. There was no checking system for drugs brought by patients. | |
| 12 | Drug administration | Unknown | Lactec was used instead of Lactec D. Patient identification by cross-checking the wrist band and the drug barcode was neglected. | |

| No. | Process in which event occurred | Potential of residual disability | Summary | Periodic report |
|--------|---------------------------------|--|--|--------------------|
| [Wrong | dose] | | | |
| 13 | Ordering | Unknown | Mix-up of drugs of the same class. The wrong drug was given at twice the usual dose to multiple patients. | |
| 14 | Ordering | Unknown | The height and weight of the patient were mistaken as the dose of an anti-tumor drug that should be titrated based on the body surface area. | |
| 15 | Preparation | High | Insulin overdose due to unit/mL confusion | 5 th |
| 16 | Preparation | Low | Insulin overdose due to unit/mL confusion | |
| 17 | Preparation | Death | Dose titration error in syringe pump set-up | |
| 18 | Preparation | Unknown | Overdose due to a wrong assumption that the prescribed dose was 10 times the normal dose | |
| 19 | Ordering | Low | Overdose of tranquilizer due to an erroneous computer entry of prescription, resulting in a decrease of level of consciousness | |
| 20 | Ordering | Unknown | The prescribed dose of anticoagulant was mistaken, and 10 times the intended dose was used (overdose). | |
| 21 | Ordering | Low | A wrong protocol for anti-tumor treatment was filed with the medical chart, and the physician on the next shift overdosed the patient based on the wrong protocol. | |
| 22 | Ordering | Low | Use of wrong drug concentration based on an oral order | |
| 23 | Ordering | Low | The prescribed dose was mistaken by one digit, and 10 times the intended dose was used (overdose). | 6 th |
| 24 | Preparation | Unknown | Insulin was given at the dose adjusted to the wrong drug dispensed at the pharmacy by mistake instead of the ordered dose for the time, resulting in an overdose. | |
| 25 | Drug administration | Low | Vasopressor overdose at 11 times the intended dose because of an error in setting up the syringe pump | |
| 26 | Drug administration | Unknown | The sedative was resumed without changing the infusion speed after blood infusion with a syringe pump. The patient who received the sedative at 10 times the intended dose became hypotensive. | |
| 27 | Drug administration | Unknown | Insulin overdose due to unit/mL confusion | |

| No. | Process in which event occurred | Potential of residual disability | Summary | Periodic report |
|-----|---------------------------------|--|---|--------------------|
| 28 | Ordering | Low | Ancaron tablet (anti-arrhythmic) 200 mg was orally given for the initial three days followed by 100 mg for nonsustained ventricular tachyarrhythmia. The patient overdosed when the shift physician (not the attending physician) ordered Ancaron 200 mg by mistake. | |
| 29 | Receiving order/briefing | Unknown | When ordering morphine hydrochloride injection for a patient with hepatocellular carcinoma and bone metastasis, the attending physician entered "10" in the brackets "[] mL" in the injection order. He wrote "10 mg [1 mL] + normal saline 49 mL at 2 mL/h" in the order form. The other physician received morphine hydrochloride 50 mg/5 mL 2A at the pharmacy and brought it to the ward. A nurse prepared the drug by mixing morphine hydrochloride 2A (10 mL) with normal saline 40 mL to be injected at 2 mL/h. The attending physician started the injection of the prepared drug. The dose mix-up was identified when the remaining morphine was checked before returning it to the pharmacy. | 7 th |
| 30 | Preparation | High | The twice-weekly medications (anti-rheumatic and anti-folic acid metabolite) the inpatient brought (taken three times) were kept by the ward due to the change in the patient's condition. The medications were given daily by mistake, resulting in an overdose. | 7 |
| 31 | Preparation | Low | The periodically prescribed Cercine powder 20 mg/day was prepared at 2 mg/day due to miscalculation. The wrong dose was undetected in the checking system, and the patient was underdosed for five days. A nurse identified the underdose when she found a smaller dose used for the patient compared with others while checking the prescriptions. | |
| 32 | Drug administration | Low | Prescribed Caprocin (anticoagulant) intradermal injection 2500 IU/0.1 mL was given at 2000 IU/0.8 mL. | |
| 33 | Drug administration | Low | In the second absorbed diphtheria-tetanus vaccination, the vaccine 0.5 mL was subcutaneously injected instead of 0.1 mL or less. | |
| 34 | Ordering | Unknown | A 12-year-old child visited the outpatient clinic for the second diphtheria-tetanus vaccination. The physician specified the vaccine dose at 0.5 mL in the order form and instructed the nurse to check the package insert before preparing the vaccine and make the package insert available. The package insert stated that the recommended dose was 0.1 mL for children aged 10 or above. However, the nurse prepared the vaccine at 0.5 mL for injection without suspecting anything was wrong. The physician saw the package insert but did not notice the recommended dose and injected 0.5 mL. | $8^{ m th}$ |
| 35 | Ordering | Low | The patient had been using oral warfarin (anticoagulant), which was discontinued before surgery. The cardiac surgeon ordered the initiation of intravenous heparin (anticoagulant) as soon as possible after surgery. The cardiac surgeon's order in the order form "IV heparin 3 mL followed by continuous undiluted heparin 0.5" was mistaken as "IV heparin 3 mL followed by continuous undiluted heparin 3". Warfarin overdose was found by a nurse who noticed the bloody drainage in the tube. | |

| No. | Process in which event occurred | Potential of residual disability | Summary | Periodic report |
|-----|---------------------------------|--|--|--------------------|
| 36 | Ordering | Low | The attending physician ordered "undiluted heparin (anticoagulant) 4 mL (4000 IU)/h" when it should have been heparin 10000 IU (10 mL) for 24-hour injection. The nurse-in-charge was suspicious about the order and checked with the attending physician, who instructed the nurse to use the drug as ordered. The nurse started heparin injection as instructed. Heparin overdose was identified when the patient was found bleeding from the wound 12 hours later. | |
| 37 | Ordering | Low | The prescription issued by the previous physician provided the dose in "amount of ingredient." The prescription was wrongly assumed to be in "amount of preparation," resulting in an overdose. Drugs were prescribed in "amount of preparation" at the reporting medical institution. | |
| 38 | Ordering | Low | The referral issued by the previous physician said "Aleviatin 10% powder (anti-epileptic) 1.8 g," and the current physician prescribed Aleviatin 1800 mg. The physician did not understand the difference between the amount of preparation and amount of ingredient and instructed the pharmacist to prescribe Aleviatin 1800 mg, ignoring the pharmacist's inquiry. | |
| 39 | Ordering | Low | A copy of the prescription issued by the previous physician said "Phenobal 10% (hypnotic/sedative/anticonvulsant) 1.5 g/day," and the current physician prescribed "Phenobal 10% 1500 mg/day" using the hospital computer system. Phenobal was given at 1500 mg/day at the current hospital despite the previous physician's prescription "Phenobal 150 mg/day." The overdose was identified when the patient exhibited symptoms that included slurred speech. A dose shown in grams usually means the total amount of the drug (active ingredient and additives) and that shown in milligrams usually means the amount of active ingredient at the hospital pharmacy. The prescribed 1500 mg was therefore considered as the amount of active ingredient. | 8 th |
| 40 | Ordering Unknown | | The patient was referred to the current hospital by the previous one. The referral said "oral Selenica-R (antiepileptic) 1.25 g b.i.d (morning/evening)." The current physician entered "Selenica-R granule 400 mg/g; 1250 mg b.i.d (morning/evening)" in the computer ordering system as prescribed by the previous physician. The dispensing pharmacy prepared valproic acid 1250 mg (equivalent to Selenica-R granule 3.125 g). As a result, the patient received 2.5 times the amount specified in the patient information (the intended dose was valproic acid 500 mg). | |
| 41 | Ordering | Low | A terminal outpatient was using oral TS-1 (anti-tumor drug). The treatment was switched from outpatient oral TS-1 to inpatient intravenous chemotherapy (taxol). The patient brought TS-1 upon admission. However, the attending physician did not check the remaining amount of TS-1. An intern entered "TS-1 continued" in the computer system when checking the order for continuous use of the oral medication the patient brought upon admission, and oral TS-1 was continued even after admission. | |

| No. | Process in which event occurred | Potential of residual disability | Summary | Periodic report |
|--------|---------------------------------|--|--|--------------------|
| 42 | Preparation | Low | Twice-daily intravenous Tazocin (antibiotic) 350 mg + normal saline 20 mL was ordered. Two vials of Tazocin 2.5 g were on the tray (one tray per patient). The nurse misread the dose information on the label as 0.25 g and had Tazocin 2.5 g and 1 g (2 vials, total of 3.5 g) ready for 350-mg injection. The drug was given to the patient at the wrong dose despite the injection syringe label saying "350 mg" as ordered. The dosing error was identified when the vial to be used for the second injection was found missing (because it had been used for the first injection). | |
| 43 | Preparation | Low | Denosine (antiviral) 150 mg + normal saline 100 mL was mixed up with Denosine 1500 mg + normal saline 100 mL and given intravenously. | |
| 44 | Preparation | Low | Intravenous Novantron (anti-tumor drug) 1.2 mg and Cylocide (anti-tumor drug) 50 mg were to be used in chemotherapy. An intern ordered Novantron 1 V (vial) in a case of last-minute dose change. A senior physician added "1.2 mg" to "Novantron 1V" in the injection order form in handwriting. The intern and a graduate student (pediatrician) double-checked the injection order but both of them misread "1.2 mg" as "12 mg" and injected Novantron 12 mg to the patient. Later a nurse checked the injection order form and found the ambiguous decimal point. The overdose was identified when the nurse checked with the intern about the ordered dose. | 8 th |
| 45 | Drug administration | Low | Diamox (carbonate dehydrogenase inhibitor) 500 mg was to be dissolved in a 20-mL syringe, and 250 mg (10 mL) was to be given intravenously. However, the whole 500 mg of Diamox was given. | |
| [Wrong | method] (admini | stration route, co | ncentration, duration) | |
| 46 | Receiving order/ briefing | Low | Administration of narcotic by a syringe pump was orally ordered. However, the narcotic was injected intravenously. | |
| 47 | Preparation | Low | The wrong dose of heparin was used in heparin lock, resulting in an overdose. | 5 th |
| 48 | Preparation | Low | The order of two different drugs on alternate days was mistaken as same-day treatment, resulting in an overdose. | |
| 49 | Drug administration | Low | Sandostatin for subcutaneous injection was injected into the infusion line. | |
| 50 | Drug administration | Low | Ciproxan 300 (anti-microbial) labeled "to be diluted" was given without diluting. A nurse who was not in charge of the patient gave the treatment. The nurse was off on the previous day when the pharmacist gave precautions for administration of the drug. | 7 th |

| No. | Process in which event occurred | Potential of residual disability | Summary | Periodic report |
|----------|--|--|---|--------------------|
| 51 | Ordering | Unknown | The oral medication was continued after the patient was transferred from another hospital. A physician prescribed daily Rheumatrex (anti-rheumatic) 2 mg b.i.d morning/evening instead of once-weekly Rheumatrex by mistake. A pharmacist dispensed Rheumatrex to the ward without realizing the drug required certain intervals between doses, and even the nurse did not notice the wrong dosing, resulting in an overdose. | |
| 52 | 52 Ordering Low | | In chemotherapy with Carboplatin (anti-tumor drug to be given on Day 1) + Topotecin (anti-tumor drug to be given on Day 1, Day 8, and Day 15), an erroneous computer entry made by the attending physician resulted in the preparation of Carboplatin on Day 8 when the drug was not to be given. The patient noticed the error and pointed it out. However, the drug was given to the patient due to prior miscommunication between the attending physician and the shift physician. | 8 th |
| [Wrong | dosing speed] No | event was repo | rted. | |
| [Patient | misidentification |] | | |
| 53 | Drug administration | Low | The same drug prepared for another patient was given by mistake. | 5 th |
| 54 | Drug administration | Low | Oxycontin (cancer pain relief) 35 mg prepared for a pre-examination fasting patient was given to another pre-examination fasting patient. The patient names were mixed up when putting the name on the tape after taking the drug out of the bag. | 7 th |
| 55 | Preparation | Unknown | A syringe prepared in the treatment room was checked but another syringe containing diuretic for another patient was taken to the hospital room and given to the patient by mistake. The double-check at the bedside was neglected. | 8 th |
| 56 | Drug administration | Low | The oral medication of another patient with a similar name was given by mistake. The patient name could not be checked with the patient himself because he was elderly and demented. | o |
| [Others |] | | | |
| 57 | Ordering | High | Acute subdural hematoma due to head contusion was overlooked. An anticoagulant was given to the patient, resulting in an aggravation of the symptoms. | |
| 58 | Receiving order/ briefing | High | The order for diuretic adjustment based on four-hour urine was mistaken as two-hour urine. | |
| 59 | Observation /monitoring after drug therapy | High | Cardiopulmonary arrest occurred after sleeping pills were given for sedation. | 5 th |
| 60 | Observation /monitoring after drug therapy | | Cardiopulmonary arrest occurred after sleeping pills were given for sedation. | |
| 61 | Others | Unknown | The patient had disturbed consciousness after a contrast medium was used. | |

| No. | Process in which event occurred | Potential of residual disability | Summary | Periodic report |
|-----|--|--|--|--------------------|
| 62 | Others | Death | Unavoidable accident due to an adverse drug reaction | |
| 63 | Others | Death | Intestinal obstruction and necrosis caused by pre-examination treatment | 5 th |
| 64 | Ordering | High | Brain infarction occurred in a post-operative patient treated with anticoagulant when the mode of administration was switched from intravenous to oral | |
| 65 | Drug administration | Unknown | Shock occurred in a patient after adding a continuous epidural injection drug for pain relief | |
| 66 | Observation/ monitoring after drug therapy | High | Brain infarction occurred in a patient treated with oral anticoagulant that was temporarily interrupted for examination for another disorder | |
| 67 | Observation/ monitoring after drug therapy | Death | Cardiac arrest in a chronic heart failure patient who took oral beta-blocker as a pre-treatment for coronary CT two hours earlier | 6 th |
| 68 | Observation/ monitoring after drug therapy | High | A patient treated with anticoagulant bled from the wound on Day 9 post-operation and received hemostatic treatment. | |
| 69 | Observation/ monitoring after drug therapy | Low | A patient's condition changed (shock) during chemotherapy (anti-tumor drug). | |
| 70 | Others | Unknown | Deteriorated reagent before its expiration date | |
| 71 | Observation/ | | Glucagon (pancreatic hormone) 1A was used for pre-endoscopic treatment. The patient became hypoglycemic with decreased level of consciousness after the endoscopy but recovered after receiving glucose. The patient was admitted to the hospital due to an abnormal blood test conducted post-endoscopy and subsequently lost consciousness and went into shock in the toilet. | 7 th |
| 72 | Observation/ monitoring after drug therapy High | | Anexate, a Silece antagonist, was given intravenously followed by Ambu ventilation in a patient whose blood oxygen level was decreased and respiration condition worsened during endoscopy. | |
| 73 | Observation/ monitoring after drug therapy | Low | Oral Panaldine was started. No abnormality was seen during the two-week inpatient monitoring period. However, the white blood cell count subsequently decreased. | |
| 74 | 74 Others | | Lepetan suppository (analgesic) was prescribed for severe pain. The patient presented with headache and vomiting 30 minutes after using the drug at home. Neither the prescribing physician nor the nurse realized that Lepetan injection was contraindicated for the patient. The front cover of the patient medical chart containing contraindicated drug information was renewed, and the information had not been transcribed. | 8 th |

| No. | Process in which event occurred | Potential of residual disability | Summary | Periodic report |
|-----|---------------------------------|--|--|-----------------|
| 75 | Others | Low | Sulperazon (antibiotic) 1 g + normal saline 100 mL was given intravenously to a patient with fever. The patient subsequently experienced numbness in the upper extremities and abdominal pain. Later it was found that antibiotics were contraindicated to the patient who was allergic to Sulperazon, as indicated in the referral from the previous physician. The attending physician entered the allergy information in the clinical terminal when the patient was admitted previously but did not include the information in the medical chart. The allergy warning display system on the clinical terminal and the vital sign chart were available. However, the display could be easily missed. | $8^{ m th}$ |
| 76 | Others | Low | A patient diagnosed with glaucoma based on the pre-upper endoscopy treatment received contraindicated Buscopan intramuscularly. The order to switch Buscopan to Glucagon was overlooked. The nurse was aware of the patient's glaucoma but misunderstood that the physician intentionally ordered Buscopan. | |

Fig. III-2 Occurrence of Medical Adverse Events Involving Drugs: 5th to 8th reports

| | | | | Wr | ong met | hod | | | | |
|---------|---|-------------|------------|-------------------------|---------------|----------|--------------------|---------------------------|--------|-------|
| | | Drug mix-up | Wrong dose | Route of administration | Concentration | Duration | Wrong dosing speed | Patient misidentification | Others | Total |
| | Ordering | 2 | 16 | 0 | 0 | 2 | 0 | 0 | 2 | 22 |
| | Receiving order/ briefing | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 4 |
| | Preparation | 7 | 10 | 0 | 1 | 1 | 0 | 1 | 0 | 20 |
| Process | Implementation | 2 | 6 | 1 | 1 | 0 | 0 | 3 | 1 | 14 |
| | Post-procedural observation/management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| | Others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| | Total | 12 | 33 | 2 | 2 | 3 | 0 | 4 | 20 | 76 |

Fig. III-3 Type of Drugs Involved in Medical Adverse Events: 5th to 8th reports

| Type of dwg | Number of reports |
|---------------------|---------------------------|
| Type of drug | January to December, 2006 |
| Blood product | 1 |
| Narcotic | 2 |
| Anti-tumor drug | 10 |
| Cardiovascular drug | 8 |
| Antidiabetic | 4 |
| Anxiolytic | 2 |
| Hypnotic | 4 |
| Other drugs | 45 |
| Total | 76 |

Fig. III-4 19th to 22nd Occurrence of Medical Near-Miss Incidents Involving Drugs

| | | | | Wr | ong met | hod | | on | | |
|---------|---|-------------|------------|-------------------------|---------------|----------|--------------------|---------------------------|----------------|-------|
| | | Drug mix-up | Wrong dose | Route of administration | Concentration | Duration | Wrong dosing speed | Patient misidentification | Others | Total |
| | Ordering | 23 | 35 | 1 | 0 | 3 | 3 | 11 | 10 | 86 |
| | Receiving order/ briefing | 42 | 15 | 2 | 4 | 8 | 7 | 2 | 12 | 92 |
| | Preparation | 134 | 106 | 7 | 20 | 20 | 4 | 42 | 84 (Note 1) | 417 |
| Process | Implementation | 71 | 49 | 37 | 6 | 21 | 15 | 66 | 18 | 283 |
| | Post-procedural observation/management | 2 | 6 | 1 | 0 | 0 | 38 | 0 | 23 | 70 |
| | Others | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 14 | 18 |
| | Total | 273 | 213 | 48 | 30 | 53 | 67 | 121 | 161 | 966 |

(Note 1) Including 52cases involving closed ports that should have been opened to mix drugs when preparing infusion solution.

Fig. III-5 19th to 22nd Occurrence of Near-Miss Events Related to Dispensing Process of Drugs

| | | Dı | rug err | or | | Dose | error | | uo | | lpel | wder | | |
|----------------------|-------------------------|-------------|--------------------------------|---------------|--------------------|-------|-------------|----------------|---------------------------|------------------|--------------------------|--|--------|-------|
| | | Drug mix-up | Incorporation of wrong drug | Specification | Measuring/counting | Unit. | No. of days | Powder package | Patient misidentification | Leak of delivery | Wrong drug package/label | Malfunction/defect of powder packaging machine | Others | Total |
| | Tablets/capsule | 355 | 27 | 183 | 228 | 2 | 35 | 31 | 9 | 47 | 44 | 23 | 38 | 1,022 |
| | Powder/ granule | 70 | 3 | 30 | 83 | 5 | 17 | 32 | 8 | 17 | 25 | 16 | 21 | 327 |
| Internal medicine | Liquid for internal use | 31 | 0 | 3 | 19 | 3 | 4 | 0 | 2 | 4 | 8 | 0 | 1 | 75 |
| External me | edicine | 88 | 2 | 39 | 29 | 1 | 0 | 2 | 5 | 8 | 6 | 1 | 13 | 194 |
| Injection | Injection | | 13 | 103 | 64 | 2 | 7 | 0 | 10 | 16 | 23 | 1 | 30 | 491 |
| Others | | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 7 |
| Unknown | | 15 | 4 | 13 | 18 | 1 | 19 | 12 | 41 | 23 | 38 | 1 | 29 | 214 |
| | Total | 784 | 49 | 371 | 442 | 14 | 82 | 77 | 75 | 117 | 144 | 42 | 133 | 2,330 |

Major Drugs Mixed Up Due to Similar Product Names (Note 1) Fig. III-6

| Tablet/c | apsule | Po | wder | Solu | ıtion |
|---|--|------------------------------------|------------------------------------|----------------------|----------------------|
| A | В | A | В | Α | В |
| Atarax | Atarax P | Gastropylore | Gastrom | Elental P | Elental |
| (Anti-allergic laxative/ | (Anti-allergic | (Stomachic digestive) | (Gastritis/gastric ulcer | (Component nutrient) | (Component nutrient) |
| tranquilizer) | laxative/tranquilizer) | • / | treatment) | (component natrent) | (component numbers) |
| Alotec | Allelock | Kamikihito Extract | Kamishoyosan Extract | | - |
| (Asthma treatment/bronchodilator) | (Allergy treatment) | Fine Granule (Chinese medicine) | Fine Granule (Chinese medicine) | | ! ! |
| Osteluc | Olmetec | ` | | | <u>'</u> |
| (Non-steroidal anti-inflammatory | (High-affinity AT1 receptor | Shibokuto | Saireito | | |
| drug) | blocker) | (Chinese medicine) | (Chinese medicine) | | 1 |
| Osten | Osteluc | Tsumura 37 | Tsumura 34 | | ! ! |
| (Osteoporosis treatment) | (Non-steroidal anti-inflammatory drug) | (Chinese medicine) | (Ch inese medicine) | | ! ! ! |
| Ganaton | Gasmotin | UFT E Fine Granule | UFT Capsule | | |
| (Gastrointestinal prokinetic) | (Gastrointestinal prokinetic) | (Antimetabolite) | (Antimetabolite) | | ! ! ! |
| Klaricid | Cravit | | | | i ! |
| (Macrolide antibiotic) | (Broad-spectrum oral | | | | ! ! ! |
| | antimicrobial) Kefral | | | | i i |
| Keflex | (Long-acting cephem | | | | ! ! ! |
| (Cephem antibiotic) | antibiotic) | | | | ! ! |
| Zantac | Zyloric | | | | ! ! ! |
| (H2 blocker) | (Hyperuricemia treatment) | | | | |
| Singulair Chewable (Bronchial asthma treatment) | Singulair (Bronchial asthma treatment) | | | | ! ! |
| Depakene | Depakene R | | | | ! |
| (Anti-epileptic/antimanic) | (Anti-epileptic/antimanic) | | | | ! ! ! |
| Neuleptil | Nu-Lotan | | | | |
| (Psychoneurotic drug) | (A-II antagonist) | | | | |
| Neurovitan | Neurotropin | | | | |
| (Multivitamin) | (Analgesic [descending inhibition promoter]) | | | | ! ! |
| Norvasc | | | | | <u> </u> |
| (Long-acting calcium channel | Nolvadex D | | | | ! ! ! |
| antagonist) | (Breast cancer treatment) | | | | |
| Hydantol F | Hydantol D | | | | ! ! |
| (Anti-epileptic) Ferromia | (Anti-epileptic) Foliamin | | | | ' ! ! |
| (Soluble nonionic iron) | (Folic acid) | | | | 1 ! ! |
| Pursennid | Prednisolone | | | | , |
| (Laxative) | (Synthetic corticosteroid) | | | | 1 ! |
| Predonine | Pursennid | | | | |
| (Corticosteroid) | (Laxative) | | | | ! } |
| Prednisolone | Predonine | | | | |
| (Synthetic corticosteroid) Prednisolone | (Synthetic corticosteroid) Pursennid | | | | |
| (Synthetic corticosteroid) | (Laxative) | | | | ; ; |
| Prostal | Pletaal | | | | |
| (Prostate hypertrophy/ | (Anti-platelet) | | | | - |
| cancer treatment) | (a piacoco) | | | | ! ! |
| Basen OD | Takepron OD | | | | , i i |
| (Treatment for postprandial hyperglycemia in diabetes) | (Proton pump inhibitor) | | | | ! ! |
| Periactin | Persantin | | | | i I |
| (Anti-allergic drug) | (Coronary circulation | | | | ! ! ! |
| Perdipine LA | improving drug) | | | | · |
| (Long-acting calcium channel | Persantin L | | | | ! ! ! |
| antagonist) | (Sustained-release anti-platelet) | | | | <u></u> |
| Menesit | Medet | | | | |
| (Parkinson's disease treatment) | (Anti-diabetic) | | | | i ! |
| Mucodyne (Airway mucus regulator/mucous | Mucosta | | | | , ! ! |
| membrane normalizer) | treatment) | | | | i ! |
| Juvela N Soft | Juvela | | | , | |
| (Cardiovascular drug) | (Vitamin E) | | | | <u> </u> |
| Rythmodan R | Rythmodan | | | | ! ! |
| (Sustained-release anti-arrhythmic) | (Anti-arrhythmic) | | | | 1 ! |
| Livalo | Lipovas | | | | ! ! ! |
| | (Anti-hyperlipidemia) | | <u> </u> | | i ! |
| Onealfa | Warfarin | | | | |
| (Activated vitamin D3) | (Warfarin potassium) | | | | i - |
| Onealfa | Vasolan | | | | , , , |
| (Activated vitamin D3) | (Ischemic heart disease treatment) | | | | ı ! |
| | 19th and 10th medical near | | | Į. | 1 |

(Note 1) Data from the 18th and 19th medical near-miss incident reports

Drug A was intended but drug B was given instead in the reported cases.

Descriptions in brackets are therapeutic efficacies claimed on the package insert.

| External i | medication | Injection | | | | | | |
|--------------------------------|------------------------------------|--|---|--|--|--|--|--|
| A | В | A | В | | | | | |
| Meptin Air (Bronchodilator) | Meptin Kid Air (Bronchodilator) | Aminofluid (Glucose/electrolyte/amino acid supplement) | Trifluid (Combined sugar-sustaining agent) | | | | | |
| | | Amiparen (Multiple amino acids) | Aminoleban (Amino acid for hepatic encephalopathy) | | | | | |
| | | Albuminar (Plasma fraction preparation) | Albumin (Plasma fraction preparation) | | | | | |
| | | InnoLet R Injection (Other hormone) | InnoLet 30R Injection (Other hormone) | | | | | |
| | ; ; ; | Veen 3G (Blood substitute) | Solita T3 G (Maintenance fluid) | | | | | |
| | 1 1 1 1 | Espo Injection 1500 Syringe (Human erythropoietin) | Epogin Injection Syringe 1500 (Human recombinant erythropoietin) | | | | | |
| | | Kenketsu Venoglobulin IH (Plasma fraction preparation) | Kenketsu Jochu-Globulin (Blood product) | | | | | |
| | ! ! ! | Kenketsu Glovenin I (Plasma fraction preparation) | Kenketsu Venilon I | | | | | |
| | ! ! ! | Cefamezin alfa (Synthetic cephalosporin) | (Plasma fraction preparation) Cefmetazon | | | | | |
| | <u> </u> | Cefmetazon | (Cephamycin antibiotic) Cefamezin alfa (Synthetic conheless orin) | | | | | |
| | i ! ! | (Cephamycin antibiotic) Injection solvent | (Synthetic cephalosporin) Normal saline | | | | | |
| | i ! ! | (Injection solvent) Humacart | (Normal saline) Humalog | | | | | |
| | <u> </u> | (Anti-diabetic) Fragmin | (Anti-diabetic) Novo-protamine sulfate | | | | | |
| | ! ! ! | (Anti-coagulant) | (Heparin antagonist) | | | | | |
| | ! | | | | | | | |
| | <u>.</u> ! | | ! | | | | | |
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| | 1 1 1 1 | | 1 1 1 | | | | | |
| | | | | | | | | |

Fig. III-7 Major Drugs Mixed Up Due to Similar Efficacies (Note 1)

| Tablet/ | capsule | Pow | der | Extern | al drug |
|---|--|--|--|--|--|
| A | В | A | В | A | В |
| Acinon (H2 receptor antagonist) | Altat (H2 receptor antagonist) | Alosenn (Laxative) | Pursennid (Laxative) | Posterisan forte (ointment) (Hemorrhoid treatment) | Borraza-G ointment (Hemorrhoid treatment) |
| Aspara K (K aspartate) | Slow-K (Sustained-release potassium) | Selbex (Gastritis/gastric ulcer treatment) | Ulcerlmin (Gastritis/gastric ulcer treatment) | Tarivid ear drop (Otological drug) | Cravit eye drop (Broad-spectrum anti-microbial eye drop) |
| Anafranil (Antidepressant/enuresis treatment) | Tofranil (Antidepressant/enuresis treatment) | Tsumura Shakuyaku Kanzo-to Extract Granule (Chinese medicine) | Tsumura Toki Shakuyaku-san Extract Granule (Chinese medicine) | Tarivid eye ointment (Ophthalmologic drug) | Cravit eye drop (Broad-spectrum anti-microbial eye drop) |
| Allegra (Allergy treatment) | Alesion (Allergy treatment) | Biofermin-R (Antibiotic-resistant lactic acid bacterium antiflatulent) | Lac-B (Antiflatulent) | Neriproct ointment (Hemorrhoid treatment) | Posterisan (ointment) (Hemorrhoid treatment) |
| Ganaton (Gastrointestinal prokinetic) | Gasmotin (Gastrointestinal prokinetic) | Kalimate (Serum potassium lowering drug) | Kayexalate (Hyperkalemia treatment) | | |
| Bisolvon (Airway mucus solubilizer) | Mucosolvan (Airway lubricant/expectorant) | Livact (Branched-chain amino acid) | Portolac (Hyperammonemia treatment) | | |
| Prednisolone (Synthetic corticosteroid) | Predonine (Synthetic corticosteroid) | | ! ! | | |
| Voltaren (Analgesic/anti-inflammatory) | Loxonin (Analgesic/anti- inflammatory/antipyretic) | | | | |
| Mucodyne (Airway mucus regulator/ mucous membrane normalizer) | Mucosolvan (Airway lubricant/expectorant) | | Î | | |
| Hypen (Analgesic antipyretic antiphlogistic) | Disopain (Non-steroidal anti-inflammatory drug) | | | | 1 |
| Laxoberon (Laxative) | Pursennid (Laxative) | | ! ! ! | | |
| Lipitor (HMG-CoA reductase inhibitor) | Lipovas (Anti-hyperlipidemia) | | | | |
| Nitorol (Ischemic heart disease treatment) | Nitropen (Sublingual tablet for angina treatment) | | | | |
| Renivace (Long-acting ACE inhibitor) | Norvasc (Long-acting calcium channel antagonist) | | | | |

| Injection | on |
|---|--|
| A | В |
| Omepral injection (Proton pump inhibitor) | Gaster injection (H2 receptor antagonist) |
| Kenketsu Venoglobulin-IH (Plasma fraction preparation) | Kenketsu Venilon I (Plasma fraction preparation) |
| Tienam 0.5 g (Carbapenem antibiotic) | Modacin 1 g (Cephem antibiotic) |
| 1-mol potassium chloride solution (Solution for electrolyte correction) | Aspara-K injection (K aspartate) |
| Morihepamin (Amino acid for hepatic failure) | Moripron-F (Multiple amino acid) |
| | |
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| | |
| (Note 1) Data from the 1 | 9th and 10th madical n |

(Note 1) Data from the 18th and 19th medical near-miss incident reports

Drug A was intended but drug B was given instead in the reported cases.

Descriptions in brackets are therapeutic efficacies claimed on the package insert.

Major Drugs Mixed Up Due to Similar Appearance (Note 1) Fig. III-8

| Tablet/c | apsule | Po | owder | Solution | | | |
|---|--|---|--|---|---|--|--|
| A | В | A | В | A | В | | |
| Acetanol (Hypertension/angina/ arrhythmia treatment) | Sunrythm (Arrhythmia treatment) | No. 57 Onseiin (Chinese medicine) | No. 41 Hochuekikito (Chinese medicine) | Incremin syrup (Iron-deficiency anemia treatment) | Trichlor syrup (Hypnotic) | | |
| Adona (Hemostatic) | Warfarin (Warfarin potassium) | Daiken Chuto (Chinese medicine) | Choreito (Chinese medicine) | Depakene syrup (Anti-epileptic/antimanic) | Phenobal elixir (Hypnotic/sedative/ anti-spastic) | | |
| Altat capsule (H2 receptor antagonist) | Acinon capsule (H2 receptor antagonist) | Lac-B (Antiflatulent) | Biofermin (Antibiotic-resistant lactic acid bacterium antiflatulent) | | | | |
| Alositol tablet (Anti-hyperuricemia) | Alesion tablet (Allergy treatment) | Magnesium oxide (Antacid/laxative) | Marzulene (Gastritis/gastric ulcer treatment) | | | | |
| Urso tablet (Hepatic/biliary/gastrointestinal improving agent) | Zyloric tablet (Hyperuricemia treatment) | Sodium hydrogen carbonate (Antacid) | Sodium chloride (Dispensing agent [salt]) | | | | |
| IPD (Allergy treatment) | Rizaben (Allergy/keloid/hyperplastic scar treatment) | Marzulene (Gastritis/gastric ulcer treatment) | CaCO3 (Antacid/absorbent) | | | | |
| Acardi capsule (Heart failure treatment) | Aspenon capsule (Arrhythmia treatment) | | | | | | |
| Artane (Parkinson's syndrome treatment) | Akineton (Anti-Parkinson's disease) | | <u> </u> | | | | |
| Amaryl (Sulfonylurea hypoglycemic) | Norvasc (Long-acting calcium channel antagonist) | | | | | | |
| Gasmotin (Gastrointestinal prokinetic) | Ebastel (Long-acting selective H1 receptor antagonist) | | | | | | |
| Calonal (Analgesic antipyretic) | Zyloric (Hyperuricemia treatment) | | | | | | |
| Glakay (Vitamin K2 for osteoporosis treatment) | Diflucan (Deep mycosis t reatment) | | | | | | |
| Coniel (Hypertension/angina treatment) | Lochol (HMG-CoA reductase inhibitor) | | | | | | |
| Thiaton (Quinolizine antimuscarinic) | Sesden (Antispastic/analgesic) | | | | | | |
| Depakene tablet (Anti-epileptic/antimanic) | Depaken R tablet (Anti-epileptic/antimanic) | | | | | | |
| Depromel (Selective serotonin reuptake inhibitor) | Lochol (HMG-CoA reductase inhibitor) | | | | | | |
| Panaldine 100 mg (Antiplatelet) | Resplen (Antitussive/airway mucus solubilizer) | | | | | | |
| Harnal D (Treatment for dysuria related to prostatic hypertrophy) | Panaldine (Antiplatelet) | | | | | | |
| Proheparum (Liver hydrolysate) | EPL (Liver disease/hyperlipidemia treatment) | | | | | | |
| Bezatol SR (Anti-hyperlipidemic) | Zantac | | | | | | |
| Pontal capsule | (H2 receptor antagonist) Voltaren SR capsule | | : | | | | |
| (Analgesic/anti-inflammatory/ | (Sustained-release | | : | | | | |
| antipyretic) Mucosolvan | analgesic/anti-inflammatory) Thyradin S | | <u>;</u> | | | | |
| (Airway lubricant/expectorant) | (Thyroid hormone) | | <u> </u> | | | | |
| Myonal tablet (Myotonia treatment) | Methycobal tablet (Peripheral neuropathy treatment) | | | | | | |
| Lipovas (Anti-hyperlipidemic) | Lipitor (HMG-CoA reductase inhibitor) | | | | | | |
| Warfarin (Warfarin potassium) | Lasix (Diuretic/antihypertensive) | | | | | | |
| (Note 1) Data from the 1 | | | | | | | |

(Note 1) Data from the 18th to 20th medical near-miss incident reports

Drug A was intended but drug B was given instead in the reported cases.

Descriptions in brackets are therapeutic efficacies claimed on the package insert.

| Extern | al drug | Injection | | | | | |
|---|--|--|---|--|--|--|--|
| A | В | A | В | | | | |
| Anderm ointment (Non-steroidal anti-inflammatory topical drug) | Antebate ointment (Topical corticosteroid) | Aminotripa No. 2 (discontinued) (Amino acid/glucose/electrolyte solution for high-calorie fluid infusion) | Aminotripa No. 1 (discontinued) (Amino acid/glucose/electrolyte solution for high-calorie fluid infusion) | | | | |
| MS cold press (Analgesic/anti-inflammatory patch) | Catlep (Transdermal analgesic/anti-inflammatory) | Cefmetazon (Cephamycin antibiotic) | Sulperazon (Antibiotic containing beta-lactamase inhibitor) | | | | |
| Posterisan ointment (Hemorrhoid treatment) | Neriproct ointment (Hemorrhoid treatment) | NovoRapid 30 Mix Injection FlexPen (Insulin) | NovoRapid injection 300 FlexPen (Insulin) | | | | |
| | | Primperan (Treatment for abnormal gastrointestinal function) | Lasix injection (Diuretic) | | | | |
| | | Benambax (Carinii pneumonia treatment) | Targocid (Glycopeptide antibiotic) Kaytwo N | | | | |
| | | Methycobal (Peripheral neuropathy treatment) Lasix injection | (Hemostatic mechanism activating vitamin) Bisolvon injection | | | | |
| | | (Diuretic) Adelavin 9 | (Airway mucus solubilizer) Serotone | | | | |
| | 1 1 1 1 1 | (Liver extract) Elaspol 100 (Neutrophil erastase inhibitor) | (5-HT3 antagonist [antiemetic]) FOY (Protease inhibitor) | | | | |
| | 1 1 1 1 1 | HMG solution (Pituitary gonadotropin) | Luteum (Luteal hormone) | | | | |
| | | Cefamezin alfa (Synthetic cephalosporin) | Flumarin (Oxacephem antibiotic) | | | | |
| | | Pentcillin (Synthetic penicillin) | Biklin (Synthetic aminoglucoside antibiotic) Palux | | | | |
| | ; ; ; ; | Liple (PGE1) Rocephin | (PGE1) Omepral | | | | |
| | | (Cephem antibiotic) | (Proton pump inhibitor) | | | | |
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| | 1 1 1 | | ! ! | | | | |

Major Drug Mixed Up Due to Two Factors (Note 1) Fig. III-9

| Tab | let | Powe | ler | External drug | | |
|---|--|---------------------------------------|---|--|--|--|
| A | В | A | В | A | В | |
| [Similar product name] | & [similar efficacy] | | | | | |
| Acinon capsule (H2 receptor antagonist) | Altat capsule (H2 receptor antagonist) | | | | | |
| Ganaton capsule (Gastrointestinal prokinetic) | Gasmotin tablet (Gastrointestinal prokinetic) | | | | | |
| Nitorol (Ischemic heart disease treatment) | Nitropen (Sublingual tablet for angina treatment) | | | | | |
| Blopress (Long-acting angiotensin II receptor antagonist) | Minipress (Hypertension/dysuria treatment) | | | | | |
| Ferromia (Soluble nonionic iron) | Fero-Gradumet (Sustained-release iron) | | | | , | |
| Lipitor (HMG-CoA reductase inhibitor) | Lipovas tablet (Hyperlipidemia treatment) | | | | | |
| Roccornal 100 mg (Circulatory function improving drug) | Lochol (HNG-CoA reductase inhibitor) | | | | | |
| Laxoberon tablet (Laxative) | Laxoberon solution (Laxative) | | : : : : | | , - | |
| [Similar product name] | & [similar appearance] | | | | | |
| Basen OD (Treatment for postprandial hyperglycemia in diabetes) | Takepron OD (Proton pump inhibitor) | | | Anderm ointment (External non-steroidal anti-inflammatory drug) | Antebate ointment (External corticosteroid) | |
| Persantin (Coronary circulation improving drug) | Pentasa (Ulcerative colitis/Crohn's disease treatment) | | | Hyalein Mini 0.3 (Keratoconjunctival epithelial disease treatment) | Hyalein Mini 0.1 (Keratoconjunctival epithelial disease treatment) | |
| Rhythmy (Hypnotic) | Rize (Tranquilizer) | | : : : | | ; ; ; | |
| [Similar efficacy] & [sim | ilar appearance] | | | | | |
| Artane (Parkinson's syndrome treatment) | Akineton (Anti-Parkinson's disease) | Magnesium oxide (Antacid/laxative) | Marzulene (Gastritis/gastric ulcer treatment) | Posterisan ointment (Hemorrhoid treatment) | Neriproct ointment (Hemorrhoid treatment) | |
| Baymycard (Long-acting calcium channel antagonist) | Adalat L (Hypertension/angina treatment) | | | | | |
| Lipovas (Hyperlipidemia treatment) | Lipitor (HMG-CoA reductase inhibitor) | | | | | |
| Rinderon (Synthetic corticosteroid) | Predonine (Synthetic corticosteroid) | | ! ! ! | | ! ! ! | |
| Pontal capsule (Analgesic/anti-inflammatory/ antipyretic) | Voltaren SR capsule (Analgesic/anti-inflammatory) | | | | | |

(Note 1) Data from the 18th and 21st medical near-miss incident reports
Drug A was intended but drug B was given instead in the reported cases.
Descriptions in brackets are therapeutic efficacies claimed on the package insert.

| Injection | | | | | | | |
|---|---|--|--|--|--|--|--|
| A | В | | | | | | |
| | | | | | | | |
| Kenketsu Glovenin Nichiyaku 2.5 g (Plasma fraction preparation) | Kenketsu Venilon 2.5 g (Plasma fraction preparation) | | | | | | |
| Venoglobulin IH (Plasma fraction preparation) | Venilon I (Plasma fraction preparation) | | | | | | |
| Morihepamin (Amino acid for hepatic failure) | Moripron-F (Multiple amino acid) | | | | | | |
| Lactec 500 mL (Bodily fluid substitute; perfusion/lavage fluid for surgery) | Lactec G 500 mL (Extracellular fluid replacement) | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| NovoRapid 30 Mix Injection FlexPen (Pancreatic hormone) | NovoRapid Injection 300 FlexPen (Pancreatic hormone) | | | | | | |
| Novolin 30R FlexPen (Pancreatic hormone) | NovoRapid 30 Mix FlexPen (Pancreatic hormone) | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Hydrocortone (Corticosteroid) | Solu-Cortef (Corticosteroid) | | | | | | |
| | | | | | | | |
| | | | | | | | |
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Fig. III-10 17th to 18th Occurrence of Medical Near-Miss Incidents Involving Drugs

| | | | | Wr | ong met | hod | | on | | |
|---------|---|-------------|------------|-------------------------|---------------|----------|--------------------|---------------------------|----------------|-------|
| | | Drug mix-up | Wrong dose | Route of administration | Concentration | Duration | Wrong dosing speed | Patient misidentification | Others | Total |
| | Ordering | 2 | 3 | 1 | 0 | 0 | 1 | 0 | 1 | 8 |
| | Receiving order/ briefing | 0 | 5 | 0 | 2 | 0 | 0 | 0 | 1 | 82 |
| | Preparation | 2 | 6 | 0 | 2 | 0 | 0 | 0 | 17 (Note 1) | 27 |
| Process | Implementation | 3 | 1 | 2 | 0 | 3 | 3 | 0 | 2 | 14 |
| | Post-procedural observation/management | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 10 |
| | Others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| | Total | 7 | 15 | 3 | 4 | 3 | 9 | 0 | 30 | 71 |

(Note 1) Including 15 cases involving closed ports that should have been opened to mix drugs when preparing infusion solution.

Fig. III-11 18th Occurrence of Near-Miss Events Related to Dispensing Process of Drugs

| | | Dı | rug err | or | | Dose | error | | on | | lpel | wder | | |
|----------------------|-------------------------|-------------|--------------------------------|---------------|--------------------|-------|-------------|----------------|---------------------------|------------------|--------------------------|--|--------|-------|
| | | Drug mix-up | Incorporation of wrong drug | Specification | Measuring/counting | Unit. | No. of days | Powder package | Patient misidentification | Leak of delivery | Wrong drug package/label | Malfunction/defect of powder packaging machine | Others | Total |
| | Tablets/capsule | 10 | 6 | 48 | 49 | 0 | 17 | 24 | 2 | 5 | 25 | 10 | 8 | 297 |
| | Powder/ granule | 16 | 0 | 6 | 18 | 0 | 1 | 15 | 4 | 6 | 0 | 8 | 4 | 78 |
| Internal medicine | Liquid for internal use | 9 | 0 | 0 | 5 | 0 | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 20 |
| External me | edicine | 24 | 0 | 8 | 4 | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 3 | 49 |
| Injection | Injection | | 2 | 39 | 18 | 0 | 0 | 0 | 0 | 5 | 8 | 3 | 6 | 166 |
| Others | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown | Unknown | | 0 | 4 | 5 | 19 | 4 | 4 | 15 | 3 | 22 | 3 | 9 | 88 |
| | Total | 23 7 | 8 | 10 5 | 99 | 19 | 23 | 44 | 21 | 26 | 62 | 24 | 30 | 698 |

[2] Medical Adverse Events Related to Medical Devices

The analysis of medical adverse events related to medical devices included events related to ventilators or infusion pumps (including syringe pumps) reported between January 1 and December 31, 2006.

(1) Medical adverse events related to ventilators

Medical adverse event related to ventilators were categorized according to situation/device part involved in the event: power supply, oxygen supply, breathing circuit, heated humidifier, setting/operation panel, ventilator, and others (Fig. III-12).

A. Power supply

The eighth report included one event in which the power was turned off for unknown reasons.

B. Oxygen supply

No event was reported.

C. Breathing circuit

The fifth report included two events in which the breathing circuit of the ventilator was pulled and the tracheal tube was accidentally withdrawn. The sixth report included two events in which the breathing circuit of the ventilator was pulled and the tracheal tube was accidentally withdrawn and one event in which the tracheal tube was connected into an artificial nose by mistake. The seventh and eighth reports each included two events in which the breathing circuit of the ventilator was dislodged.

D. Heated humidifier

No event was reported.

E. Settings/operation panel

The fifth report included one event in which the power switch was operated erroneously, and the 8th report included one event in which a setting error occurred.

F. Ventilator

The sixth report included one event involving a defect in the ventilator.

G. Others

No event was reported.

Many of the reported events involved the breathing circuit of the ventilator. The preventive measures taken at the reporting institutions included optimal positioning of the alarm device in terms of the distance between the ventilator and the patient and a procedure for patient position change that requires a nurse and an assistant who holds the breathing circuit of the ventilator while changing the patient's position.

(2) Medical adverse events related to infusion pumps

Medical adverse events related to infusion pumps were categorized according to situation/device part involved in the event: order, power supply, line, settings/operation panel, observation/management, and others (Fig. III-13). The reported incidents are summarized with order, power supply, line, setting/operation, observation/management, and others on the vertical axis and infusion pump and syringe pump on the horizontal axis (Fig. III-14).

A. Ordering

No event was reported.

B. Power supply

No event was reported in association with the power supply.

C. Line

No event was reported in association with the infusion pump line such as syringe or route.

D. Settings/operation panel

The seventh report included six events related to flow setting.

E. Observation/management

The seventh report included one event involving necrotic ulcer secondary leakage from the insertion site. The eighth report included two events of insertion site leakage and one event in which all the remaining drug was administered because the infusion route was not clamped before removal.

F. Others

The seventh report included one event in which the entire dose was administered by mistake in the last hour for some reason. The eighth report included one event involving a failure to connect the syringe pump. Some institutions check the life of the devices in periodic maintenance procedures to ensure device safety.

(3) Details of medical near-miss incidents related to medical devices

A. Medical near-miss incidents related to ventilators

Medical near-miss incidents reported in the 19th report (January to March 2006), the 20th report (April to June 2006), the 21st report (July to September 2006), and the 22nd report (October to December 2006) were analyzed (Fig. III-15).

B. Medical near-miss incidents related to infusion pumps

Medical near-miss incidents reported in the 20th report (April to June 2006), the 21st report (July to September 2006), and the 22nd report (October to December 2006) were summarized with ordering, power supply, line, settings/operation panel, observation/management, and others on the vertical axis and infusion pump and syringe pump on the horizontal axis (Fig. III-16).

<Note>

Ventilator-related medical adverse events not discussed in "Individual Theme Review by Expert Division" in the 2005 annual report (those occurred in 2005 and included in the Fifth report) and medical near-miss incidents included in the 17th (July to September 2005) report are summarized in this report (Figs. III-17 and III-18).

Summaries and details of medical adverse events related to infusion pumps reported between October 2004 and December 31, 2005 are also included (Figs. III-19 and III-20).

Fig. III-12 Summary of Medical Adverse Events Related to Ventilator: 5th to 8th Reports

| C | Category | Place | Potential of residual disability | Details | Periodic report |
|---|----------------------|--------------------------------------|--|---|-----------------|
| 1 | Power supply | Patient room | Death | ventilator was attached but the power was off. The cause of the power be turned off was unknown. | |
| 2 | Breathing circuit | Patient room | Unknown | Two nurses changed the diaper of a patient on a ventilator. The cannula was accidentally withdrawn because the cough reflex occurred when the patient was turned on his side. | |
| 3 | Breathing circuit | Operation room | Unknown | After the tracheotomy in the operation room, the patient was moved from the operating table to the ward bed, and a ventilator was attached to the tracheal cannula. The corrugated tube of the ventilator was tugged, and the tracheal cannula was withdrawn by accident during the procedure for preparing to return the patient to the ward. | 5 th |
| 4 | Breathing circuit | Patient room/ emergency center | High | The patient's respiratory condition was worsened, and the airway pressure was increased. The tracheal tube was detached from the ventilator, and bradycardia was followed by cardiac arrest. | |
| 5 | Breathing circuit | Patient room | Low | The airway pressure tube of the ventilator was connected to the artificial nose by mistake. | 6 th |
| 6 | Breathing Circuit | Patient room | Death | The endotracheal tube was accidentally withdrawn together with the holder when the patient on the ventilator was turned on the right side. | |
| 7 | Breathing circuit | Patient room | Low | A nurse went to check the patient when the alarms of the ventilator and the SpO ₂ monitor went off. The tracheal cannula (tracheal tube) and the flexible tube were not connected tightly. SpO ₂ was decreased, but the patient's condition improved after 30 seconds of Ambu bag use. The patient data was displayed on the bedside monitor but not transmitted to the recording room monitor. | |
| 8 | Breathing circuit | Patient room | High | When the nurse completed taking care of the patient in the next bed and turned around, the patient involved in the event was in cardiopulmonary arrest. The cannula was dislodged from the ventilator. The patient was resuscitated, and the heart rate returned but not the level of consciousness. The patient was expected to call for help if there was any problem with the ventilator because he was able to communicate with the voice call. The alarm of the ventilator on this patient was not as loud as that of the patient in the next bed. | 7 th |

| C | ategory | Place | Potential of residual disability | Details | Periodic report |
|----|---------------------------------|--------------|--|---|-----------------|
| 9 | Breathing circuit | Patient room | Death | A patient with amyotrophic lateral sclerosis (ALS) was on a BiPAP ventilator. The patient had requested turning off the alarm because it went off frequently. The patient was checked after midnight, but the breathing circuit of the ventilator and the mask were found dislodged three hours later. | |
| 10 | Breathing circuit | X-ray room | High | After an emergency operation, the patient returned to ICU with the ventilator on to prevent further aggravation of the ischemic symptom in the lower extremities. The patient was subsequently moved from ICU to the angiography room for possible catheter treatment. The mobile ventilator was directly connected to the oxygen outlet in the angiography room. After the catheter treatment, the patient was found pale and with a faint pulse. The breathing circuit of the ventilator was subsequently found to be disconnected. | 8 th |
| 11 | Settings/ operation panel | Patient room | Mild | The patient was on a BiPAP ventilator. Oxygen was supplied through the reservoir mask only during meals. The family noticed the abnormality and pointed it out to the nurse who checked the ventilator. The nurse found the device was on stand-by without supplying oxygen and the tube (bypass tube) was disconnected from the mask. | 5 th |
| 12 | Settings/ operation panel | Patient room | Unknown | The pediatric ventilator (Bear Cub) was set at peak inspiratory pressure (PIP) 16, positive end-expiratory pressure (PEEP) 6, ventilation rate (Rate) 20, and low-pressure alarm 10. However, PIP was only around 12. PIP was subsequently decreased to around 10 every 30 minutes to one hour. The device was almost unable to pressurize four hours later. The patient's respiration was controlled by manual ventilation until a replacement ventilator arrived. | 8 th |
| 13 | Ventilator | ICU | High | The hypoventilation alarm went off after sputum suction occurred in the patient on a ventilator, but no abnormality was found. The alarm went off again followed by a gradual decrease in the heart rate. The ventilator was replaced. | 6 th |

Fig. III-13 Summary of Medical Adverse Events Related to Infusion Pumps: 7th and 8th Report

| No. | | | | Summary | Periodic report |
|---------|---|-------------------|---------|---|--------------------|
| [Infusi | on pump] | | | | |
| 1 | Settings/ operation panel | Flow setting | Low | The flow should have been set at 50 mL/h but was set at 500 mL/h by mistake. | $7^{ m th}$ |
| 2 | | Others | High | When removing Diprivan (general anesthesia) from the infusion pump after its discontinuation was ordered, the infusion line was left unclamped. All the remaining Diprivan solution was administered to the patient. | |
| 3 | Observation/ management | | Low | The nurse in charge checked the IV needle insertion site and saw there was no problem. Two hours later the patient had a fever of 38.3°C, and the nurse checked the patient's condition but not the needle insertion site. About two hours after the fever started, the nurse found swelling due to leakage in the left leg where the IV needle was inserted. | 8 th |
| 4 | | Insertion site | Unknown | After the patient recovered from the anesthesia post-operation, the IV drip was switched from manual adjustment to infusion pump. The flow was set at 30 mL/h. The patient's hand was found swollen after about 10 hours. The patient received at least 375 mL of drug during the 10 hours before the leakage was found. The day-shift nurse and the evening-shift nurse checked the needle insertion site and the fingertips of the patient four times in total. | |
| [Syrin: | ge pump] | | | | |
| 5 | | | Unknown | The flow of Inovan should have been 3 mL/h but was infused at 30 mL/h. After setting the flow, the set amount and the infusion route were not double-checked before pushing the start button. | |
| 6 | | | Low | The flow of Inovan (cardiotonic) should have been 2 mL/h but was set at 22 mL/h. | |
| 7 | Settings/ | Flow | Unknown | Nembutal 5 mL/h was resumed by using the same syringe pump used for the preceding blood infusion 50 mL/h without changing the flow speed. | $7^{ m th}$ |
| 8 | Settings/ operation panel Flow setting | | Low | The mixture of normal saline and Ciclosporine (immunosuppressant) was administered at 4.1 mL/h. Nurse B checked the patient when the alarm went off 45 minutes after ensuring 2 mL of the solution had been infused as scheduled. The nurse found that there was only 2 mL of solution remaining and the flow speed was set at 104.1 mL/h. It was a type of syringe pump that did not emit an alarm when the operation was interrupted and the set flow speed was changed when the panel was touched. | , |

| No. | Accident process residua | | Potential of residual disability | Summary | Periodic report |
|-----|--|----|----------------------------------|--|--------------------|
| 9 | Settings/ operation panel Flow setting Unkno | | Unknown | A total of 44.5 mL of drug was to be administered in three hours by using a syringe pump, but the flow speed was set at 44.5 mL/h. | |
| 10 | Observation/ Insertion site | | Low | Critpan (acute circulatory failure treatment) was administered by using a syringe pump. The patient complained about discomfort in the needle insertion site with mild swelling. Necrotic ulcer was diagnosed at the plastic surgery clinic, and a skin graft was required. | 7 th |
| 11 | | | Low | Morphine hydrochloride 50 mg was diluted with 45 mL and started at 0.5 mL/h by using a syringe pump. The patient was checked three times during the initial three hours and 10 minutes. However, after four hours of treatment it was found that all remaining drug had been administered within one hour. | |
| 12 | Other | 15 | Low | The anticoagulant Futhan was to be given by using a syringe pump in continuous hemodiafiltration (CHDF) for acute renal failure. Dialysis was started without double-checking the line connection, and about 150 mg of Futhan was given within a short time. | 8 th |

Fig. III-14 Medical Adverse Events Related to Infusion Pumps: 7th and 8th Reports

| | | Infusion pump | Syringe pump | Unknown | Total |
|--------------------|------------------------|------------------|-----------------|---------|-------|
| Ordering | | 0 | 0 | 0 | 0 |
| Domes somele | Power charge | 0 | 0 | 0 | 0 |
| Power supply | Neglected power supply | 0 | 0 | 0 | 0 |
| T in a | Syringe | | 0 | 0 | 0 |
| Line | Route | 0 | 0 | 0 | 0 |
| Settings/ | Fixation | 0 | 0 | 0 | 0 |
| operation panel | Flow setting | 1 | 5 | 0 | 6 |
| Observation/ | Insertion site | 2 | 1 | 0 | 3 |
| management | Others | 1 | 0 | 0 | 1 |
| Others | | 0 | 2 | 0 | 2 |
| | Total | 4 | 8 | 0 | 12 |

Fig. III-15 Medical Near-Miss Incidents Related to Ventilators: 19th to 22nd Reports

| Category | N |
|--------------------------|----|
| Power supply | 5 |
| Oxygen supply | 3 |
| Breathing circuit | 43 |
| Heated humidifier | 10 |
| Settings/operation panel | 10 |
| Ventilator | 5 |
| Others | 13 |
| Total | 89 |

Fig. III-16 Medical Near-Miss Incidents Related to Infusion Pumps: 20th to 22nd Reports

| | | Infusion | Syringe | Others | Unknown | Total |
|--------------|------------------------|----------|---------|--------|---------|-------|
| Ordering | | 1 | 0 | 0 | 2 | 3 |
| | Power charge | 1 | 1 | 0 | 0 | 2 |
| Power supply | Neglected power supply | 10 | 3 | 0 | 2 | 15 |
| | Others | 1 | 1 | 0 | 0 | 2 |
| Line | Syringe | 0 | 1 | 0 | 0 | 1 |
| Line | Route | 27 | 19 | 0 | 4 | 50 |
| Settings/ | Fixation | 5 | 17 | 0 | 0 | 22 |
| operation | Flow setting | 77 | 22 | 0 | 13 | 112 |
| panel | Others | 17 | 14 | 1 | 1 | 33 |
| Observation/ | Insertion site | 5 | 0 | 0 | 1 | 6 |
| management | Others | 17 | 7 | 2 | 1 | 27 |
| Others | | 28 | 13 | 3 | 7 | 51 |
| Total | | 189 | 98 | 6 | 31 | 324 |

<Note>

Fig. III-17 Summary of Medical Adverse Events Related to Ventilators

October 2004 to December 31, 2005

| C | ategory | D | Details | | Details | | Details Place | | Potential of residual disability | Details Details | Periodic report |
|---|---------------------------------|----------------------------|---|---|---------|---|-----------------|--|----------------------------------|-----------------|-----------------|
| 1 | Power supply | | priate power upply | Patient room | Low | The emergency line breaker was activated due to inappropriate use of an outlet at another ward, and the power to the ventilator was turned off. | | | | | |
| 2 | Breathing circuit | Leakage Dis- connection | | Leakage Disconnection Unknown Low disconnected. The alar off but the patient remarks for four respiratory arrest for four | | disconnected. The alarm went off but the patient remained in respiratory arrest for four to five minutes due to a delay in the | | | | | |
| 3 | Breathing circuit |] | Line Patient room Low | | | | 6 th | | | | |
| 4 | Breathing circuit | | | Operation room | Unknown | When the patient was moved with the ventilator on, the corrugated tube was tugged and the tracheal tube was accidentally withdrawn. | | | | | |
| 5 | Settings/ operation panel | Power swi | itch turned off | Patient room | Low | After the main switch was turned on, the ventilator was not started because the start button was pressed without checking the display. There was an error in checking the operation status. | | | | | |

<Note>

Fig. III-18 Classificatsion of Medical Near-Miss Incidents Involving Mechanical Ventilator

| | | | | 17 th | | | | | | |
|------------------|----|--------------|---|------------------|---|--------|--------------------------------|--|--|--|
| Classification | | | Details | | ber of nts (%) | incide | ber of ents by ation (%) | | | |
| | 1 | Inappropria | nte power supply | 3 | (3.0) | | | | | |
| Power | 2 | Inadequate | code connection | 1 | (1.0) | | (5.0) | | | |
| supply | 3 | Internal bat | tery malfunction | 2 | (2.0) | 6 | (5.9) | | | |
| | 4 | Connection | cable breakage | 0 | (0.0) | | | | | |
| | 1 | Not supplied | d | 2 | (2.0) | | | | | |
| Oxygen supply | 2 | Not connect | ed | 1 | (1.0) | | | | | |
| | 3 | Oxygen tan | k disconnected | 0 | (0.0) | 4 | (3.9) | | | |
| | 4 | Inappropria | nte handling of oxygen tank | 0 | (0.0) | | | | | |
| | 5 | Oxygen leal | кage | 1 | (1.0) | | | | | |
| | | | Confused expiration/ inspiration ports | 3 | (3.0) | | | | | |
| | | 1 | 1 | Wrong connection | Location of pressure/ temperature sensor | 0 | (0.0) | | | |
| | | | Location | 1 | (1.0) | | | | | |
| | 2 | Inadequate | connection | 8 | (7.9) | | | | | |
| | 3 | Inappropria | nte use of items | 6 | (5.9) | | | | | |
| Breathing | 4 | Line exchan | ge required time | 1 | (1.0) | | (50.5) | | | |
| circuit | 5 | Breathing c | ircuit blockage | 3 | (3.0) | 51 | (50.5) | | | |
| | 6 | Breakage | | 2 | (2.0) | | | | | |
| | 7 | Leakage | Disconnection | 18 | (17.8) | | | | | |
| | 8 | Leakage | Disconnected cannula | 2 | (2.0) | | | | | |
| | 9 | Leakage | Breathing circuit breakage | 5 | (5.0) | | | | | |
| | 10 | Others | | 2 | (2.0) | | | | | |

| | | | 1 | 17 th | | | | | |
|----------------------|---|----------------|---|------------------|-------------------|---------------------------|---------|--|--|
| Classification | | | Details | Numl incider | ber of nts (%) | incide | ents by | | |
| | 1 | Power was of | f | 5 | (5.0) | | | | |
| | 2 | Wrong setting | 5 | 2 | (2.0) | | | | |
| Heated humidifier | 3 | Water supply | | 3 | (3.0) | 10 | (9.9) | | |
| | 4 | Breakage | | 0 | (0.0) | | | | |
| | 5 | Malfunction/o | lefect | 0 | (0.0) | | | | |
| | 1 | Power blacko | ut | 5 | (5.0) | | | | |
| | | | Alarm | 1 | (1.0) | | | | |
| | | | Oxygen concentration | 0 | (0.0) | | | | |
| | | | Oxygen flow | 0 | (0.0) | | | | |
| | | | Mode | 2 | (2.0) | | | | |
| | 2 | G.W. | Mode/pressure | 0 | (0.0) | | | | |
| Setting/ | 2 | Setting | Ventilation | 1 | (1.0) | 20 | (10.0) | | |
| operation panel | | | Pressure | 4 | (4.0) | 20 (19.8) (19.8) (19.8) | | | |
| | | | Expiratory time | 0 | (0.0) | | | | |
| | | | Respiratory rate | 4 | (4.0) | | | | |
| | | | Wrong setup method | 3 | (3.0) | | | | |
| | 3 | Inappropriate | e position of mode setup dial | 0 | (0.0) | | | | |
| | 4 | | display/high value due to noisture drops | 0 | (0.0) | | | | |
| | 5 | Battery of gra | aphic monitor was out | 0 | (0.0) | | | | |
| Vontilatan | 1 | Inappropriate | ely secured ventilator | 1 | (1.0) | 12 | (11.0) | | |
| Ventilator | 2 | Malfunction/o | lefect | 11 | (10.9) | 12 | (11.9) | | |
| | | Total | | | 103 | (100) | | | |

<Note>

Fig. III-19 Summary of Medical Adverse Events Related to Infusion Pumps

October 2004 to December 31, 2005

| No. | Accident _I | Accident process Potential of residual disability Summary | | Summary | Periodic report | | | |
|----------------|---|---|---|--|--------------------|---|-----------------|--|
| [Infusi | on pump] | | | | | | | |
| 1 | Settings/ operation panel Flow setting | | Unknown | Two infusion pumps were used. The main infusion pump was to be set at 40 mL/h and the anesthetic pump at 4 mL/h. However, anesthesia was administered at 40 mL/h. | $7^{ m th}$ | | | |
| 2 | | | Low Intravenous Catabon Hi should have been given at 2 mL/h but was given at 37 mL/h. | | | | | |
| [Syringe pump] | | | | | | | | |
| 3 | Fixation | | Unknown | The plunger was not secured in the pump slider hook, and the infusion was not started. | | | | |
| 4 | operation panel | ^ | | peration panel Flow setting Unknown g | | The drug should have been given at 5 mL/h but was given at 50 mL/h due to a setting error. The error was found when only 20 mL of the drug was remaining. | 7 th | |
| [Unkn | own] | | | | | | | |
| 5 | Orderi | ing | Low | The physician knew the setting procedure for the new pump was different from that for the old model but made a documentation error. The nurse noticed the error in the order but set the flow without checking with the physician. The drug was given at 240 mg/4h instead of intended 100 mg. | $7^{ m th}$ | | | |

<Note>

Fig. III-20 Medical Adverse Events Related to Infusion Pumps

October 2004 to December 31, 2005

| | | Infusion pump | Syringe pump | Unknown | Total |
|--------------------|------------------------|------------------|-----------------|---------|-------|
| Ordering | | 0 | 0 | 1 | 1 |
| Down supply | Power charge | 0 | 0 | 0 | 0 |
| Power supply | Neglected power supply | 0 | 0 | 0 | 0 |
| Line | Syringe | | 0 | 0 | 0 |
| Line | Route | 0 | 0 | 0 | 0 |
| Settings/ | Fixation | 0 | 1 | 0 | 1 |
| operation panel | Flow setting | 2 | 1 | 0 | 3 |
| Observation/ | Insertion site | 0 | 0 | 0 | 0 |
| management | Others | 0 | 0 | 0 | 0 |
| Others | | 0 | 0 | 0 | 0 |
| | Total | 2 | 2 | 1 | 5 |

[3] Medical Adverse Events Related to Medical Procedures

(1) Details of medical adverse events related to enema

In the third report ^(Note 1), information concerning events involving rectal perforation presumably caused by glycerin enema was considered by Expert Analysis Groups as information to be widely shared and described in detail. The Japanese Nursing Association published "Accident Report: Enema in Standing Position" to provide urgent safety information in February 2006. Medical adverse events related to enema are summarized in Fig. III-21.

The fifth report included one medical adverse event related to enema, in which glycerin enema was given to a standing patient in the toilet on his request, and rectal perforation subsequently occurred.

The seventh report included events related to enema reported on January 1, 2006 and thereafter.

Different types of enema are used for different purposes. Most reported events involved purgative (stool) enema. These include high-pressure enema in which an enema agent is injected from a pump held about 50 cm above with water pressure, as well as glycerin enema in which enema agent is injected with manual pressure.

Most reported events involved glycerin enema. Despite the in-house enema procedure that specifies that the patient should, in principle, be in the left lateral position, sometimes an enema is given while patients are standing or bending forward in the toilet on their request. The third (Note 1) and fifth (Note 2) reports included events that occurred in such cases as "Medical Adverse Event Information to be Shared," to draw attention to them. Some institutions have been using report on JCQHC's Project to Collect Medical Adverse Event Information as references for in-house information sharing or when warning patients who request that an enema be administered in the toilet.

One of the reported events involved rectal perforation following glycerin enema performed in accordance with the procedure that specifies the left lateral position on the bed. Preventive measures for such events include reviewing the necessity of preoperative enema based on the scheduled operative procedure, for example, whether laparotomy was involved.

The eighth report included one medical adverse event related to an enema. The report states, "The safety precautions for enema were not taken as something the person should keep in mind."

(2) Medical adverse events related to nasogastric/gastrostomy/enterostomy tube insertion/management

Of the medical adverse events reported between January 1 and June 30, 2006, events for which the event summary information code for drainage tube was selected and events for which other information codes were selected but involved insertion/management of nasogastric/gastrostomy/enterostomy tubes in patients who underwent percutaneous endoscopic gastrostomy (PEG) or intestinal tube (those involving tubes used for purposes other than nutritional feeding) were analyzed.

⁽Note 1) See p. 45 of the third report on Project to Collect Medical Adverse Event Information.

⁽Note 2) See p. 113 of the fifth report on Project to Collect Medical Adverse Event Information.

Medical adverse events related to nasogastric/gastrostomy/enterostomy tube insertion/management are summarized in Fig. III-22.

The occurrence of medical adverse events is summarized with the five situations, namely, initial tube insertion/procedure, tube replacement, nutritional feeding, observation/management, and others on the vertical axis and event details on the horizontal axis in the matrix (Fig. III-23).

A. Initial tube insertion/procedure

The sixth report included no event involving nasogastric tubes and one event involving gastrostomy in which other organs were damaged during the tube placement procedure.

B. Tube replacement

The sixth report included five events involving nasogastric tubes inserted into the trachea or the lungs. Bubbling sounds were checked in three of the events. Three events involving gastrostomy were included in the report. Gastrostomy tubes were inserted into the intestine or the abdominal cavity by accident.

The eighth report included two events involving insertion of nasogastric tube into an inappropriate site during replacement.

C. Nutritional feeding

The sixth report included two events involving nasogastric tubes and one event involving gastrostomy. Vomiting and fever related to nutritional feeding were reported.

D. Observation/management

The sixth report included no event involving nasogastric tubes and one event involving gastrostomy tube fixation.

Nutritional feeding through nasogastric or gastrostomy tubes and patient observation/management also take place at long-term care insurance facilities and special nursing homes.

(3) Medical near-miss incidents related to enema

Medical near-miss incidents occurred in 2006 and reported in the 19th (January to March 2006) and 20th (April to June 2006) reports were analyzed.

The occurrence of medical near-miss incidents related to enemas was summarized with the five steps in the enema procedure, namely, ordering, receiving order/briefing, preparation, implementation, and post-enema observation/management on the vertical axis, and incident details on the horizontal axis in the matrix (Fig. III-24).

(4) Medical near-miss incidents related to nasogastric/gastrostomy/enterostomy tube insertion/management

Medical near-miss incidents that occurred in 2006 and reported in the 19th (January to March 2006) and 20th (April to June 2006) reports were analyzed.

As with medical adverse events, the occurrence of medical near-miss incidents related to enemas was summarized with the five procedures, initial tube insertion/procedure, tube replacement, nutritional feeding, observation/management, and others on the vertical axis and incident details on the horizontal axis in the matrix (Fig. III-25).

<Note>

Medical adverse events related to enemas or nasogastric/gastrostomy/enterostomy tube insertion/management reported between October 2004 and December 31, 2005 not discussed in "Individual Theme Review by Expert Division" in the 2005 annual report are summarized in this report (Figs. III-26 and III-27). Medical near-miss incidents related to enema (Fig. III-28) or nasogastric/gastrostomy/enterostomy tube insertion/management (Fig. III-29) reported in the 17th (July to September 2005) and 18th (October to December 2005) medical near-miss incident reports are also summarized.

Fig. III-21 Summary of Medical Adverse Events Related to Enemas: 7th and 8th Reports

| No. | Process | Potential of residual disability | Summary | Periodic report | | | |
|----------|--------------|--|--|--------------------|--|--|--|
| [Glyceri | in enema] | | | | | | |
| 1 | Toilet Low | | The patient requested for a preoperative enema to be performed in the toilet because of the presence of hemorrhoids. The patient stated that he would feel bad if he did a bowel movement right away. Rectum perforation was found after the enema was performed in the patient standing and bending forward in the toilet. | | | | |
| 2 | Patient room | High | Preoperative enema was performed in the patient lying on the left side in bed. Rectum perforation was found after the enema. The patient's hemorrhage was overlooked. | | | | |
| 3 | | | Glycerin enema was performed in the patient who experienced difficulty defecating. The patient requested that an enema be performed while he was standing and bending forward in the toilet. The patient started bleeding, and the hemorrhage required hemostatic treatment. | | | | |
| 4 | Toilet Low | | Toilet Low The patient requested that an enema be performed in the toilet. Glycerin enema 120 mL was performed in the patient standing and bending forward in the toilet. The patient started bleeding when producing a hard stool. Endoscopic hemostasis was performed for the continuing hemorrhage after the physician's examination. The individual who performed the enema was aware of potential enema-related accidents included in the in-house safety alert. However, he/she did not think he/she might cause such an accident. | | | | |

Fig. III-22 Summary of Medical Adverse Events Related to Nasogastric/Gastrostomy/ Enterostomy Tube Insertion/Management: 6th to 8th Reports

| No. | Place | Potential of residual disability | Summary | Periodic report | | | | | |
|--|-------------------------|----------------------------------|---|--------------------|--|--|--|--|--|
| Events 1 | elated to nasog | astric tubes | | | | | | | |
| [Initial insertion/procedure: No event was reported] | | | | | | | | | |
| 1 | Inappropriate site | High | The bubbling sound in the stomach was checked by two first-year nurses after feeding tube placement. The patient's respiratory condition deteriorated after the tube feeding was started, and the tube was found misplaced in the trachea. Thorough patient monitoring was not ensured after starting the tube feeding until the worsening of his respiratory condition. | | | | | | |
| 2 | Inappropriate site | Low | The new nasogastric tube was misplaced in the trachea, reaching the lung. The misplaced tube was unnoticed, and the formula was fed to the patient. The hard tube material may be one of the factors causing the event. | | | | | | |
| 3 | Inappropriate site | Low | The tube was misplaced in the bronchus. Racol was fed but started to flow backward into the ventilator line together with the cough reflex. The blood oxygen saturation level decreased. Whether the tube was inserted into the stomach was checked using an indirect method of listening for the bubbling sound through the abdominal wall. Backflow of stomach fluid was not checked. | $6^{ m th}$ | | | | | |
| 4 | 4 Inappropriate Unknown | | A new gastric tube was inserted into the trachea, causing pneumothorax. The event was presumably caused by the misaligned gastric stoma: the stomach moved downward in the patient who received tube feeding in the gatched-up position, not in the complete supine position. | | | | | | |
| 5 | Inappropriate site | Low | The new nasogastric tube was misplaced in the trachea, reaching the lung. The misplacement of the tube was unnoticed, and the formula was fed to the patient. The patient was in the status of post-subtotal gastrectomy. The nurses listened for the bubbling sound with a stethoscope to confirm correct tube placement in the remaining stomach, but the sound was unclear. | | | | | | |
| 6 | Inappropriate site | High | The feeding tube placed in the previous hospital was replaced immediately after the patient was transferred due to occlusion. Some resistance was felt in the esophagogastric junction during the manual tube insertion, and the tube was placed with a guide wire. The patient lapsed into shock with high fever and abdominal distention three days later. Abdominal paracentesis showed ascites mixed with nutritional formula, suggesting formula leakage in the abdominal cavity. The position of the replaced tube had been checked by X-ray. | | | | | | |
| 7 | Inappropriate site | Death | The feeding tube was smoothly inserted about 55 cm despite slight resistance at the pharynx. The nurse who replaced the tube thought the tube reached the stomach. Air was injected into the stomach to check the bubbling sound, and the nurse decided the tube was placed in the stomach. Suction showed only air and no liquid, and the nurse checked the bubbling sound once again and fixed the tube. The bubbling sound was also checked before feeding the patient the nutritional formula. Four hours later, a wheezing sound was heard and cyanosis occurred. An X-ray showed the tip of the feeding tube in the right lower lung. Radiopaque feeding tubes had been used since the previous year but X-ray confirmation of the tube position was not included in the operating procedure. | 8 th | | | | | |

| No. | Place | Potential of residual disability | Summary | Periodic report |
|------------|--------------------|----------------------------------|--|--------------------|
| Nutriti | onal feeding: 2 e | events | | |
| 8 | Others | Low | The patient vomited while the pre-examination medication was administered through the gastric catheter. The patient was in a state of post-cranial surgery and unable to communicate. The cough reflex was absent. The procedure was not performed under the supervision of a physician. | $6^{	ext{th}}$ |
| 9 | Others | Unknown | After the periodic tube replacement, the tube position was checked, followed by formula feeding. However, the level of consciousness decreased and the respiratory condition deteriorated. | |
| _ | | ent: No event wa | | |
| | | stomy/enterosto | my tubes | |
| [Initial i | insertion/proced | ure: 1 event] | | |
| 10 | Inappropriate site | Low | Part of the dilated colon was accidentally damaged during the laparoscopic gastrostomy. The gastric corpus behind the dilated colon was not checked thoroughly. | 6 th |
| [Tube re | eplacement: 5 ev | ents] | | |
| 11 | Inappropriate site | Unknown | Gastrostomy tube was misplaced in the abdominal cavity at the initial replacement. The tube was placed by an intern, and the instructing physician thought the tube placement was appropriate based on the insertion angle and direction. There was no routine checking procedure using a contrast medium. | |
| 12 | Inappropriate site | Low | The transcending colon was pierced by the replaced gastrostomy tube. The event was presumably caused by abdominal distention from flatulence, pushing the transcending colon upward over the stomach. | 6 th |
| 13 | Others | High | The esophagus was perforated by the replaced gastrostomy tube. The patient was not in a safe position during the tube placement. The risk of perforation had not been adequately explained. | |
| [Nutritie | onal feeding: 1 e | event] | , | |
| 14 | Others | Death | The patient vomited and aspirated the vomit during nutritional feeding from the enterostomy tube. When the patient vomited was unknown due to inadequate observation during the busy period. | 6 th |
| [Observ | ation/managem | ent: 1 event] | | |
| 15 | Inappropriate site | Low | In the patient receiving at-home tube feeding, the tip of gastrostomy tube was found to have pierced the gastric wall and the diaphragm and reached the lung. The tube was too long and too hard for the post-gastrectomy patient. | 6 th |

(Note 1) "Summary" includes a summary of event details and event background/factors reported as descriptive information.

Fig. III-23 Medical Adverse Events Related to Nasogastric/Gastrostomy/Enterostomy Tube Insertion/Management: 6^{th (Note 1)} and 8th Reports

| | - | e | Conn | ection | | Tu | ıbe | | | |
|-------------------------|------------------|--------------------|---------|--------|-----------------------------|-----------|----------------------------|-----------------|--------|-------|
| | | Inappropriate site | Leakage | Error | Misalignment/ withdrawal | Occlusion | Abnormality in fixation | Breakage/defect | Others | Total |
| Initial tube insertion/ | Nasogastric tube | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| procedure | Gastrostomy | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Tube | Nasogastric tube | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| replacement | Gastrostomy | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 11 |
| Nutritional | Nasogastric tube | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 3 |
| feeding | Gastrostomy | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Observation/ | Nasogastric tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| management | Gastrostomy | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Othors | Nasogastric tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | Gastrostomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Т | otal | 21 | 0 | 0 | 2 | 0 | 0 | 1 | 5 | 31 |

(Note 1) Including events reported between October 2004 and December 31, 2005

Fig. III-24 Medical Near-Miss Incidents Related to Enemas: 19th and 20th Reports

| | | | Wrong method | | u | ķ | age | | | | |
|---------|--|-------------|--------------|----------------|---------------|-----------|------------------------------|--------------------|---------------------------------|--------|-------|
| | | Drug mix-up | Wrong dose | Insertion site | Concentration | Frequency | Patient misidentification | Feeling sick/shock | Intestinal damage/hemorrhage | Others | Total |
| | Ordering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | Receiving order/briefing | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 4 |
| Process | Preparation | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 4 |
| | Implementation | 1 | 1 | 1 | 0 | 0 | 3 | 1 | 5 | 0 | 12 |
| | Post-procedural observation/management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Total | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 5 | 3 | 21 |

Fig. III-25 Medical Near-Miss Incidents Related to Nasogastric/Gastrostomy/ Enterostomy Tube Insertion/Management: 19th and 20th Reports

| | | e e | Conn | ection | | Tu | ıbe | | | |
|----------------------------|------------------|--------------------|---------|--------|-----------------------------|-----------|-------------------------|-----------------|--------|-------|
| | | Inappropriate site | Leakage | Error | Misalignment/ withdrawal | Occlusion | Abnormality in fixation | Breakage/defect | Others | Total |
| Initial tube | Nasogastric tube | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| insertion/ procedure | Gastrostomy | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| procedure | Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Nasogastric tube | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 4 |
| Tube replacement | Gastrostomy | 3 | 0 | 2 | 0 | 1 | 1 | 2 | 3 | 12 |
| | Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Nasogastric tube | 1 | 7 | 2 | 1 | 15 | 1 | 0 | 4 | 31 |
| Nutritional feeding | Gastrostomy | 0 | 16 | 10 | 0 | 12 | 0 | 1 | 10 | 49 |
| | Unknown | 0 | 4 | 2 | 0 | 9 | 0 | 1 | 14 | 30 |
| | Nasogastric tube | 0 | 2 | 0 | 25 | 1 | 0 | 0 | 1 | 29 |
| Observation/ management | Gastrostomy | 0 | 5 | 1 | 29 | 2 | 0 | 7 | 8 | 52 |
| | Unknown | 0 | 5 | 0 | 3 | 0 | 0 | 0 | 3 | 11 |
| | Nasogastric tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | Gastrostomy | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Т | otal | 7 | 39 | 17 | 59 | 41 | 2 | 13 | 44 | 222 |

Fig. III-26 Summary of Medical Adverse Events Related to Enemas

From October 2004 to December 31, 2005

| | | | From October 2004 to Decemb | C1 31, 2003 |
|----------|------------------------|--|--|--------------------|
| No. | Place | Potential of residual disability | Summary | Periodic report |
| [Glyceri | in enema] | | | |
| 1 | Toilet | Unspecified | The patient requested for preoperative glycerin enema to be performed in the toilet because of concern about a bowel movement before making it to the toilet. Rectum perforation was found after performing the enema in the patient, who was standing and bending forward in the toilet. | |
| 2 | Toilet | Low | Preoperative glycerin enema was to be performed in the toilet in patients who are able to walk according to the ward instruction. The enema was performed in the patient bending forward in the toilet. The patient was overly tense, and the catheter was inserted 5 cm at the third try. The patient started bleeding after the procedure, and rectum perforation was found. | 7 th |
| 3 | Toilet | Low | Pre-examination glycerin enema was performed in the patient standing up in the toilet to prevent possible stool leakage. The tip of the enema tube caused rectum laceration and perforation because the colon moved downward in the standing patient. | |
| 4 | Toilet | Low | The enema was performed in the patient who experienced difficulty in defecating in the toilet on his request. The procedure was repeated in the patient standing and bending forward because he had no bowel movement. The patient had tremor and fever after the procedure. A CT showed intestinal edema. | |
| [High-p | ressure enema] | | | |
| 5 | Ward treatment room | High | Pre-colonoscopic enema (high-pressure enema) was performed before the gastrointestinal examination. The patient subsequently experienced abdominal pain, and a CT showed peritonitis due to intestinal perforation. A diverticulum of sigmoid colon was identified. The perforation occurred presumably due to the fragile intestinal wall affected by the laxative and the pressure of the enema. | 7 th |

Fig. III-27 Summary of Medical Adverse Events Related to Nasogastric/Gastrostomy/ Enterostomy Tube Insertion/Management (Note 1)

From October 2004 to December 31, 2005

| | From October 2004 to December 31 | | | | | | |
|-----------------|----------------------------------|----------------------------------|--|--------------------|--|--|--|
| No. | Place | Potential of residual disability | Summary | Periodic report | | | |
| Events 1 | related to nasoga | stric tubes | | | | | |
| [Initial i | insertion: 3 even | ts] | | | | | |
| 1 | Inappropriate site | Low | Tube feeding was started on Day 1 post-operation. The blood oxygen level was reduced during the procedure. A chest X-ray showed the gastric tube inserted into the right lower lung. Gastric tube placement was not checked thoroughly, and aspiration was not predicted based on the changes in the patient's condition during tube feeding. | | | | |
| 2 | Inappropriate site | Low | Tube misplacement in the left lung in the patient during emergency transportation. The bubbling sound of air injected through the gastric tube was slightly difficult to hear, but the individual who placed the tube determined that it was because the tip of the gastric tube was close to the cardia. | 6 th | | | |
| 3 | Inappropriate site | Death | A gastric tube was placed under intravenous anesthesia in the patient who was treated at home. The cause of bleeding was determined as stress due to the prolonged procedure related to the difficulty in inserting the tube. An X-ray revealed that the tube had been placed in the trachea. Subsequent bradycardia was followed by cardiopulmonary arrest. The patient had been repeatedly resuscitated after cardiac arrest in the past. The patient had chronic respiratory failure. | | | | |
| [Tube re | eplacement: 1 ev | ent] | | | | | |
| 4 | Inappropriate site | Unknown | The bubbling sound was checked after the feeding tube was replaced. The blood oxygen level was subsequently decreased, and the patient vomited. It turned out that the tube was placed in the right lung. A newly graduated nurse performed the procedure alone. Feeding tube placement was one of the routine procedures performed by NICU nurses. However, the tube was misplaced. | 6 th | | | |
| [Nutriti | onal feeding: 1 e | vent] | | | | | |
| 5 | Misalignment/ withdrawal | Low | A nasogastric tube was fastened on the nose and cheek with bandages. The bandages came off, and the tube was found dislodged during nutritional feeding. Inappropriate tube fixation was thought to be the cause since the patient was not in a state in which he could remove the tube himself. | 6 th | | | |
| Events 1 | related to gastros | stomy/enterosto | omy tubes | | | | |
| [Initial i | insertion/proced | ure: 1 event] | | | | | |
| 6 | Inappropriate site | Low | Placement of the tip of gastrostomy tube in the stomach was checked after the procedure. Subsequent abdominal CT showed the tube piercing through the liver. The patient was scoliotic with severe spine deformation. | 6 th | | | |
| [Tube r | eplacement: 8 ev | ents] | | | | | |
| 7 | Inappropriate site | High | The patient with long-term gastrostomy had fever following tube replacement. Contrast radiography showed the tube misplaced in the abdominal cavity. | | | | |
| 8 | Inappropriate site | High | The gastrostomy tube was replaced due to frequent leakages. The patient subsequently experienced fever, and it was suspected that the catheter tip was misplaced in the intestine. The patient had severe flatulence prior to the operation. The risk of intestinal damage should have been considered. | 6 th | | | |

| No. | Place | Potential of residual disability | Summary | Periodic report |
|------------|-----------------------------|----------------------------------|--|-----------------|
| 9 | Inappropriate site | Low | In the initial gastrostomy tube replacement, the tube was misplaced in the abdominal cavity. Backflow of stomach fluid was not checked after the tube was placed, but misplacement was not suspected because the bubbling sound was present. | |
| 10 | Inappropriate site | Low | The patient experienced a fever after the gastrostomy tube was replaced with a gastrostomy button. A CT showed the absence of gastrostomy balloon in the stomach. | |
| 11 | Inappropriate site | Unknown | After the gastric catheter occlusion, the tube of the gastrostomy button was replaced with a button and its placement was checked by contrast radiography. The patient experienced a fever after nutritional feeding in the evening. The examination showed contrast leakage in the abdominal cavity. The patient was receiving care at a special nursing home where patient care was inadequate. | |
| 12 | Inappropriate site | Low | The patient started to complain about abdominal pain at the time of nutritional feeding after the initial gastrostomy tube replacement. An abdominal CT showed the tube was not in the stomach and the patient had peritonitis. Appropriate tube placement was not checked after replacing the tube. | 6 th |
| 13 | Inappropriate site | Low | The event occurred when the gastrostomy tube was replaced for the first time after the operation. Tube placement in the stomach was determined based on the same gastrostomal size as that at pre-replacement, and the patient was sent home. The patient lapsed into shock after receiving milk. It turned out the gastrostomy tube was misplaced in the closed cavity formed between the adhered liver and the intestine. The gastrostoma adhered to the surrounding tissues in two weeks. Tube placement was checked only based on the medical commonsense that normal saline injected into the abdominal cavity through a tube is dispersed and cannot be recovered. | |
| 14 | Others | Low | Peritonitis occurred two days after gastrostomy button replacement. The fistula was presumably formed during the replacement procedure. | |
| [Nutrition | onal feeding: 1 e | vent] | | |
| 15 | Breakage of tube | Low | The formula leaked from the gastrostoma during tube feeding. The balloon at the tube tip was broken. There was lack of communication among the medical staff concerning gastrostomy tube fixation and the durability of the tube had not been reviewed. There was no additional tube management procedure. | 6 th |
| [Observ | ation/manageme | ent: 1 event] | | |
| 16 | Misalignment/ withdrawal | Unspecified | The nurse's hand bumped the gastrostomy tube while helping the patient remove his clothes for a bedbath, and the tube was withdrawn. The suture for tube fixation had come off. | 6 th |

(Note 1) "Summary" includes a summary of event details and event background/factors reported as descriptive information.

<Note> Fig. III-28 Medical Near-Miss Incidents Related to Enemas: 17th and 18th Reports

| | | | | Wrong method | | | u × | | age | | |
|---------|--|-------------|------------|----------------|---------------|-----------|------------------------------|--------------------|---------------------------------|--------|-------|
| | | Drug mix-up | Wrong dose | Insertion site | Concentration | Frequency | Patient misidentification | Feeling sick/shock | Intestinal damage/hemorrhage | Others | Total |
| | Ordering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Receiving order/briefing | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Process | Preparation | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| , , | Implementation | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 5 | 0 | 9 |
| | Post-procedural observation/management | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 |
| | Total | 0 | 2 | 3 | 0 | 2 | 0 | 4 | 5 | 0 | 16 |

<Note>
Fig. III-29 Medical Near-Miss Incidents Related to Nasogastric/Gastrostomy/
Enterostomy Tube Insertion/Management: 17th and 18th Reports

| | | | Conn | ection | | Tu | ıbe | | | |
|----------------------------|------------------|--------------------|---------|--------|-----------------------------|-----------|----------------------------|-----------------|--------|-------|
| | | Inappropriate site | Leakage | Error | Misalignment/ withdrawal | Occlusion | Abnormality in fixation | Breakage/defect | Others | Total |
| Initial tube | Nasogastric tube | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| insertion/ procedure | Gastrostomy | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| procedure | Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| | Nasogastric tube | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Tube replacement | Gastrostomy | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| | Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Nasogastric tube | 0 | 13 | 3 | 2 | 4 | 0 | 1 | 5 | 28 |
| Nutritional feeding | Gastrostomy | 0 | 16 | 6 | 3 | 10 | 0 | 0 | 1 | 36 |
| | Unknown | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 4 |
| | Nasogastric tube | 0 | 0 | 0 | 6 | 4 | 0 | 0 | 1 | 11 |
| Observation/ management | Gastrostomy | 0 | 6 | 2 | 11 | 0 | 0 | 2 | 3 | 24 |
| | Unknown | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| | Nasogastric tube | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | Gastrostomy | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 |
| | Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Т | otal | 9 | 37 | 12 | 24 | 21 | 0 | 7 | 10 | 120 |

[4] Medical Adverse Events Related to Patient Misidentification, Wrong Site Surgery or Wrong Site Procedure

Medical adverse events related to patient misidentification, wrong site surgery or wrong site procedure reported between January 1 and September 30, 2006 were analyzed. The reported events are summarized in Fig. III-30.

(1) Details of medical adverse events related to patient misidentification, wrong site surgery or wrong site procedure

Occurrence of medical adverse events related to patient misidentification, wrong site surgeru or wrong site procedure was summarized with three types of mix-up, namely patient mix-up, site mix-up, and left/right mix-up, on the vertical axis and four situations, namely examination, operation, treatment/procedure, and others, on the horizontal axis in the matrix (Fig. III-31). The types of mix-up were summarized based on the factor codes provided in the report form (Fig. III-32).

A. Examination

The fifth report included one event involving a sample for pathological examination.

The sixth report included no events.

The seventh report included one event in which the CT image of another patient was developed as that for an emergency patient.

B. Operation

The fifth report included three events. Two events involved surgical site mix-ups: one involved intervertebral site mix-up in intervertebral decompression. Preventive measures for site mix-up or left/right confusion included the routine marking of surgical sites.

The sixth report included three events.

In one event, the blood to be transfused to the next patient was brought to the operation room by mistake, and resulted in a mismatched transfusion. One event involved intervertebral site mix-up, and the other event involved left/right confusion in surgical site marking.

The seventh report included four events, most of which involved left/right confusion.

Preventive measures proposed for the event in which the marking for the surgical site came off before the operation included, "1. the surgeon is to confirm the surgical site together with the patient and mark the surgical site on the skin with a felt-tip pen; 2. the marking is to be checked by the surgeon, the anesthesiologist, and the patient before anesthesia induction; 3. the surgeon is to verbally describe the surgery to be performed to the anesthesiologist and the circulating nurse who are to document the description in the anesthesia record; and 4. the image of the examination is to be checked before the operation."

C. Treatment/procedure

The fifth report included one event that involved patient misidentification of the injection solution.

The sixth report included six events, four of which involved patient misidentification of drug therapy. In two events, the mix-ups occurred because drugs to be given to multiple patients were placed in the same tray. One event involved site mix-up due to confusion concerning multiple tube insertion sites and the corresponding entry in the record. One event involved left/right confusion of the treatment site.

The seventh report included six events. Three events involved patient misidentification of drug therapy. One event involved a sample mix-up, while two events involved site mix-up.

D. Others

The fifth report included one event that involved blood transfusion mix-up.

The sixth report included no events categorized as "Others".

The seventh report included one event in which a patient referral was prepared based on using the ID card of a different patient.

(2) Medical near-miss incidents related to patient misidentification, wrong site surgery or wrong site procedure

Medical near-miss incidents occurred in 2006 and reported in the 19th (January to March 2006) report were analyzed. As with the medical adverse event analysis, medical near-miss incidents were summarized with the three types of mix-up, namely, patient misidentification, wrong site, and left/right confusion, on the vertical axis and four situations, namely, examination, operation, treatment/procedure, and others, on the horizontal axis in the matrix (Fig. III-33).

<Note>

Medical adverse events related to patient misidentification, wrong site surgery or wrong site procedure reported between October 2004 and December 31, 2005 but not discussed in "Individual Theme Review by Expert Division" in the 2005 annual report are summarized together with their causes, situations and factors (Figs. III-34, III-35, and III-36). Medical near-miss incidents reported in the 16th (April to June 2005), 17th (July to September 2005), and 18th (October to December 2005) reports are also summarized (Fig. III-37).

Fig. III-30 Summary of Medical Adverse Events Related to Patient Misidentification, Wrong Site Surgery or Wrong Site Procedure: 5th to 7th Reports

| No. | Place | Potential of residual | Summary | Periodic report |
|----------|-------------------------|-------------------------------|--|-----------------|
| [Patient | misidentificat | disability ion: 14 eventsl | | |
| 1 | Examination | Low | Samples of a wrong patient were tested due to wrong labeling of the name. Samples were collected from 10 different sites. Correct sampling was ensured since a number of samples were to be collected. However, patient identification was inadequate. | |
| 2 | Treatment/ procedure | Low | An injection was given to the wrong patient without checking the name. Inadequate patient identification. Insufficient incident/accident awareness. | 5 th |
| 3 | Others | Unknown | Blood transfusion given to wrong patient. The patient identification could have been checked, but the procedure was performed based on a careless assumption. | |
| 4 | Operation | High | The blood to be transfused to the next patient was brought to the operation room by mistake, and it was accepted without double-checking, resulting in a transfusion being given to the wrong patient. There was no express order for a blood transfusion for the other patient, and the blood was thought to be for this patient. | |
| 5 | Treatment/ procedure | Low | The drug was accidentally placed on the tray containing drugs for a patient on chemotherapy and injected to the wrong patient. The drug was contraindicated for the patient in whom it was administered. A tray with the patient's name was prepared for each patient and brought to the bedside so the medication could be checked according to the in-house procedure. The drug syringe was placed on the tray of this patient by mistake when checking the drugs on another patient's tray. | 6 th |
| 6 | Treatment/ procedure | Low | The noon oral medication for another patient that had been placed on the tray was given to the wrong patient through a gastric tube. The mix-up occurred presumably because the cup containing the drug was not placed separately from the drugs for other patients. | |
| 7 | Treatment/ procedure | Low | Drug for patient A was injected to patient B. | |
| 8 | Treatment/ procedure | Low | Patient A and patient B with similar symptoms were simultaneously admitted to the emergency room. The same physician saw the patients and ordered treatment. The nurse saw the injection instruction and gave an injection to patient B, but the instruction was for patient A. The role sharing among nurses was not clear, and other tasks were performed simultaneously. The injection instruction was inadequately checked. | |
| 9 | Examination | Unknown | A CT was performed for an emergency outpatient, and an X-ray examination was conducted in another patient around the same time. The image was developed for the former patient in haste based on the latter patient's data. The name mismatch in the patient record and the film was identified by the radiologist who read the film. | |
| 10 | Treatment/ procedure | Low | Juvela N prescribed for the patient was documented in the record of the other patient with the latter's patient ID by the nurse based on a careless assumption. The drug was given to the wrong patient for two days. | 7 th |
| 11 | Treatment/ procedure | Unknown | Drugs prescribed for patient A and patient B with the same family name staying in the same room were all given intravenously to patient A on the round. | |
| 12 | Treatment/ procedure | Low | Type O sperm sample should have been used for artificial insemination. However, it was mixed up with sample of type A and the latter was inseminated. | |

| No. | Place | Potential of residual disability | Summary | Periodic report |
|-----------|-------------------------|--|---|-----------------|
| 13 | Treatment/ procedure | Unknown | Oral medications for three patients were double-checked and placed on a tray. As a result of neglecting to check the names of the patients, Hyserenin fine granule (anti-epileptic) for patient B was given to patient A. | |
| 14 | Others | Unknown | After preparing and printing out a referral to the dental clinic based on the electronic medical chart, the ID of the wrong patient was put in it. The wrong patient was taken to the dental outpatient clinic, seen by a dentist, and returned to his room without treatment. | 7 th |
| [Wrong | site: 6 events] | | | |
| 15 | Operation | Low | Site mix-up due to intervertebral misalignment despite prior marking. The surgical site was narrow and unclear to ensure minimum invasion, and this was the cause of the mix-up. The lumbar margin was difficult to distinguish for marking. | 5 th |
| 16 | Operation | Low | Misidentification of higher intervertebral site. Unknown | |
| 17 | Operation | Unknown | In a patient with spondylolytic spondylolisthesis, the wrong site (lower intervertebral space) was opened. Two intervertebral spaces were operated on instead of one. The surgeon had little experience at the hospital. Insufficient checking, insufficient information sharing, and insufficient patient identification. | |
| 18 | Treatment/ procedure | Low | One drainage tube was inserted in three different sites after the operation. Two of the tubes were later removed. However, an X-ray revealed that there was a tube remaining in the patient's body. Wrong site documentation in EvacuAce. There was no clear rule as to who was responsible for the documentation of EvacuAce/drainage tubes and where the documentation was to take place. | 6 th |
| 19 | Treatment/ procedure | Low | IV Serenace to be given through CV line was given through PTCD line by mistake. Both lines were covered with gauze. | |
| 20 | Treatment/ procedure | Unknown | Voltaren suppository for systemic pain was to be inserted in the patient standing in the toilet on her request after she defecated. The suppository was inserted in the vagina by mistake, and the patient started bleeding. The patient was on oral anticoagulant. | 7 th |
| [Left/rig | tht confusion: 7 | events] | | |
| 21 | Operation | Unknown | Left/right confusion in ordering intraocular lens caused by careless assumption and inadequate checking | 5 th |
| 22 | Operation | High | The right cranial area was marked for a ventriculoperitoneal shunt procedure, and the craniotomy was performed. The left/right confusion was identified based on the brain finding. | |
| 23 | Treatment/ procedure | Low | Left pleural effusion was identified by the outpatient chest X-P but paracentesis was performed on the right. Another physician who came to check on the procedure detected the left/right mix-up and stopped the procedure immediately. Echography and paracentesis were performed based on a totally wrong assumption. | 6 th |

| No. | Place | Potential of residual disability | Summary | Periodic report |
|-----|-----------|----------------------------------|---|--------------------|
| 24 | Operation | Low | The surgical site for the fifth left intercostal tumor was marked on the previous day but the operation was postponed. The marking had worn off by the time the operation was performed one week later. The fifth intercostal space was checked under fluoroscopic guidance. The surgeon thought he saw a shadow and started the operation. The left/right confusion was identified by CT in the middle of the operation. | |
| 25 | Operation | Low | A prosthetic joint for left knee was placed in the right knee in an operation for rheumatoid arthritis operation. Postoperative X-ray found the left/right confusion, and the patient underwent the second operation. | 7 th |
| 26 | Operation | Low | A right trepanation was performed for left chronic subdural hematoma in an emergency patient. Left/right confusion was identified when the surgeon found no lesion on the right. There was no clear procedure for surgical site marking. | 1 |
| 27 | Operation | Low | An intraocular lens adjusted to the power of the right eye was inserted in the left eye with a cataract. The patient had unexpected hyperopia after the operation. The surgeon and the nurse checked the type and size of the intraocular lens by using the intraocular lens description in the operation room, and the checking procedure was accurate. The physician made an error in documentation. | |

Fig. III-31 Medical Adverse Events Related to Patient Misidentification, Wrong Site Surgery or Wrong Site Procedure: 5th to 7th Report

| | Patient Misidentification | Wrong Site Surgery | Left/right confusion | Total |
|---------------------|------------------------------|-----------------------|----------------------|-------|
| Examination | 2 | 0 | 0 | 2 |
| Operation | 1 | 3 | 6 | 10 |
| Treatment/procedure | 9 | 3 | 1 | 13 |
| Others | 2 | 0 | 0 | 2 |
| Total | 14 | 6 | 7 | 27 |

Fig. III-32 Factors Causing Medical Adverse Events Related to Patient Misidentification, Wrong Site Surgery or Wrong Site Procedure: 5th to 7th Report

* Analysis based on factor codes provided in the report form (Note 1)

| * Analysis based on factor codes provided in the | | Type of mix-up | |
|--|------------------------------|-----------------------|----------------------|
| Factor (note 1) | Patient Misidentification | Wrong Site Surgery | Left/right confusion |
| Neglected checking | 17 | 5 | 9 |
| Neglected observation | 2 | 1 | 2 |
| Error of judgment | 0 | 7 | 3 |
| Insufficient knowledge | 0 | 1 | 0 |
| Insufficient technique/skill | 0 | 1 | 0 |
| Delayed reporting | 2 | 0 | 0 |
| In an unusual physical condition | 0 | 1 | 0 |
| In an unusual psychological condition | 0 | 0 | 2 |
| System problem | 4 | 0 | 1 |
| Lack of coordination | 2 | 1 | 1 |
| Inadequate documentation | 0 | 0 | 0 |
| Similar patient appearance/name | 1 | 0 | 1 |
| Busy working conditions | 2 | 0 | 1 |
| Environmental problem | 0 | 0 | 0 |
| Drug problem | 0 | 0 | 0 |
| Medical device problem | 1 | 0 | 0 |
| Problem in other article | 0 | 0 | 1 |
| Facility problem | 0 | 0 | 0 |
| Education/training problem | 2 | 1 | 1 |
| Insufficient explanation | 0 | 0 | 0 |
| Others | 3 | 1 | 2 |
| Total | 36 | 19 | 24 |

(Note 1) Multiple factors may be selected.

Fig. III-33 Medical Near-Miss Incidents Related to Patient Misidentification, Wrong Site Surgery or Wrong Site Procedure: 19th Report

| | Patient Misidentification | Wrong Site Surgery | Left/right confusion | Total |
|---------------------|------------------------------|-----------------------|----------------------|-------|
| Examination | 119 | 10 | 7 | 136 |
| Operation | 5 | 3 | 14 | 22 |
| Treatment/procedure | 161 | 2 | 4 | 167 |
| Others | 54 | 0 | 0 | 54 |
| Total | 339 | 15 | 25 | 379 |

Fig. III-34 Background/Factor for Medical Adverse Events Related to Patient Misidentification, Wrong Site Surgery or Wrong Site Procedure

October 2004 to December 31, 2005

| | October 2004 to December 3 | | | | | |
|-----------|----------------------------|----------------------------------|---|-----------------|--|--|
| No. | Place | Potential of residual disability | Summary | Periodic report | | |
| [Patient | misidentification | on: 6 events] | | | | |
| 1 | Examination | High | Pathological examination was conducted for the sample of another patient due to a name labeling error. There was no clear procedure for pathological sampling, and the opportunity to check the sample was missed. | | | |
| 2 | Examination | High | Treatment with an inappropriate anticancer drug based on the blood test result of another patient. The background and the factor for the blood test of the other patient were unknown. | | | |
| 3 | Examination | Low | Blood sample was collected from the patient by using a sampling tube for the other patient without checking the patient name. The blood sampling was not conducted in accordance with the in-house procedure. There was a lack of understanding about team healthcare. | 5 th | | |
| 4 | Examination | Low | A blood sample was collected from the wrong patient. Problems were identified in sampling preparation and instruments used. Inadequate patient sample identification. | | | |
| 5 | Operation | Low | The intraocular lens of another patient was used. Unknown | | | |
| 6 | Others | High | Blood transfusion was performed in the wrong patient. Checking in accordance with the in-house procedure was not ensured. The clinic had been short of physicians, and on-duty physicians on that day were all busy with other tasks. | | | |
| [Wrong | site surgery/pro | ocedure: 3 even | its] | | | |
| 7 | Operation | Low | Wrong site trepanation due to on-site surgical site mix-up in an emergency operation. The routine surgical site check was neglected since it was an emergency operation. | | | |
| 8 | Operation | Low | The intervertebral space to be operated on was checked and marked prior to the operation. However, the wrong intervertebral space was operated on. The surgical site was presumably mixed up because of the unique form of the lumbar vertebrae and the space between vertebral arches formed secondary to the lumbar spinal canal stenosis. | | | |
| 9 | Operation | Low | The intervertebral space to be operated on was checked and marked prior to the operation. However, the wrong intervertebral space was operated on. At one stage, the operation was erroneously believed to be a success. Due to intervertebral joint deformity and thickening related to the patient's advanced age, the wrong site was operated on despite prior marking. A postoperative X-ray confirmation was conducted by a physician working alone. The site mix-up was identified by the second X-ray performed at the ward and checked by multiple physicians. | 5 th | | |
| [Left/rig | tht confusion: 3 | events] | | | | |
| 10 | Operation | Low | Left/right eyes were confused despite the marking on the patient's palm. The operation was slightly delayed, and the staff were working in haste. The event was possibly caused by fatigue and impaired judgment (due to working on a the night shift on the previous day). | 5 th | | |

| No. | Place | Potential of residual Summary disability | | | | | |
|-----|-------------------------|--|---|-----------------|--|--|--|
| 11 | Operation | Low | Left/right mix-up in the craniotomy. The surgical site was not checked. A CT image taken at another hospital and brought by the patient was used in the simulation several days prior to the operation. The image showed a cranial view while images taken at the hospital showed a caudal view, resulting in the left/right mix-up. | 5 th | | | |
| 12 | Treatment/ procedure | Low | The left and right of the X-ray image of an emergency patient were confused, and the chest drainage tube was inserted in the wrong side. The procedure was performed in haste and a physical examination was neglected. There were staff shortages related to the shift work. | J | | | |

Fig. III-35 Medical Adverse Events Related to Patient Misidentification, Wrong Site Surgery or Wrong Site Procedure

October 2004 to December 31, 2005

| | Patient Misidentification | Wrong Site Surgery | Left/right confusion | Total |
|---------------------|------------------------------|-----------------------|----------------------|-------|
| Examination | 4 | 0 | 0 | 4 |
| Operation | 1 | 3 | 2 | 6 |
| Treatment/procedure | 0 | 0 | 1 | 1 |
| Others | 1 | 0 | 0 | 1 |
| Total | 6 | 3 | 3 | 12 |

<Note>

Fig. III-36 Factors Causing Medical Adverse Events Related to Patient Misidentification, Wrong Site Surgery or Wrong Site Procedure

* Analysis based on factor codes provided in the report form (Note 1) October 2004 to December 31, 2005

| * Analysis based on factor codes provided in t | ne report form (Note 1) | OCIODEI 2004 II | December 31, 2005 |
|--|------------------------------|-----------------------|----------------------|
| | | Type of mix-up | |
| Factor (note 1) | Patient Misidentification | Wrong Site Surgery | Left/right confusion |
| Neglected checking | 5 | 1 | 3 |
| Neglected observation | 0 | 0 | 1 |
| Error of judgment | 0 | 2 | 1 |
| Insufficient knowledge | 0 | 0 | 0 |
| Insufficient technique/skill | 0 | 0 | 0 |
| Delayed reporting | 2 | 0 | 0 |
| In an unusual physical condition | 0 | 0 | 0 |
| In an unusual psychological condition | 0 | 0 | 1 |
| System problem | 1 | 0 | 0 |
| Lack of coordination | 1 | 1 | 1 |
| Inadequate documentation | 0 | 0 | 0 |
| Similar patient appearance/name | 0 | 0 | 0 |
| Busy working conditions | 1 | 0 | 1 |
| Environmental problem | 0 | 0 | 0 |
| Drug problem | 0 | 0 | 0 |
| Medical device problem | 1 | 0 | 0 |
| Problem in other article | 0 | 0 | 0 |
| Facility problem | 0 | 0 | 0 |
| Education/training problem | 0 | 0 | 1 |
| Insufficient explanation | 0 | 0 | 0 |
| Others | 3 | 1 | 0 |
| Total | 14 | 5 | 9 |

(Note 1) Multiple factors may be selected.

<Note>

Fig. III-37 Medical Near-Miss Incidents Related to Patient Misidentification, Wrong Site Surgery or Wrong Site Procedure: 16th to 18th Reports

| | Patient Misidentification | Wrong Site Surgery | Left/right confusion | Total |
|---------------------|------------------------------|-----------------------|----------------------|-------|
| Examination | 297 | 17 | 32 | 346 |
| Operation | 19 | 1 | 32 | 52 |
| Treatment/procedure | 162 | 4 | 13 | 179 |
| Others | 133 | 0 | 1 | 134 |
| Total | 611 | 22 | 78 | 711 |

[5] Medical Adverse Events Related to Pathology Tests

Medical adverse events related to pathology tests first became subject to reporting with the seventh periodic report. Reported medical adverse events for which a pathology test code was selected as the event summary code and those for which other codes were selected but considered related to pathology tests based on their details (Fig. III-38) were analyzed.

(1) Details of medical adverse events related to pathology tests

The flow of the pathology test procedure was categorized into ordering, form/label issuing, preparation, sample collection/testing, sample analysis/preparation, and evaluation/result reporting to facilitate summarizing medical adverse events that occurred between January and December 2006 (Figs. III-39 and III-40).

A. Ordering

No event was reported.

B. Form/label issuing

No event was reported.

C. Preparation

The seventh report included one event involving a sample mix-up.

The eighth report included no events.

D. Sample collection/testing

The seventh report included eight events. One event involved a sample mix-up, one event involved test item misidentification, one event involved the reuse of a used needle, four events involved blood sampling that resulted in nerve damage or numbness, and one event involved blood sampling that resulted in a bone fracture.

The eighth report included two events that involved blood sampling that resulted in pain or numbness.

E. Sample analysis/preparation

The seventh report included three events. One event involved a technical/procedural error, one event involved wrong measurement due to instrumental defect, and one event involved wrong measurement due to deteriorated reagent.

The eighth report included no events.

F. Evaluation/result reporting

The seventh report included three events. One event involved abnormality in the analytical instrument identified based on inconsistent test results, one event involved evaluation error in cross match test, and one event involved failure to submit test results due to a system malfunction.

The eighth report included one event in which the test result of another patient was reported by mistake.

(2) Medical near-miss incidents related to pathology tests

Incidents occurred in 2006 and reported in the 19th (January to March 2006), 20th (April to June 2006), 21st (July to September 2006), and 22nd (October to December 2006) medical near-miss incident reports were analyzed. Errors in the testing procedure and sample mix-ups identified by clinical technologists in laboratories, the descriptive information to be reported, and important incidents related to pathology tests were also analyzed. As with the analysis of medical adverse events, the flow of pathology test procedure was categorized into ordering, form/label issuing, preparation, sample collection/testing, sample analysis/preparation, and evaluation/result reporting (Fig. III-41).

<Note>

See Figs. III-42 to III-44 for a summary and details of incidents that occurred before 2006 and included in the 7^{th} report.

Fig. III-38 Types of Medical Adverse Events Related to Pathology Tests

| Tyma of toot | Number of reported events |
|---------------------------|---------------------------|
| Type of test | January to September 2006 |
| Sample test | 10 |
| Pathological examination | 4 |
| Physiological examination | 1 |
| Radiographic examination | 21 |
| Endoscopy | 21 |
| Ultrasound examination | 1 |
| MRI | 1 |
| Others | 4 |
| Total | 63 |

Fig. III-39 Summary of Medical Adverse Events Related to Pathology Tests: 7th and 8th Report

| No. | Fig. III-23 | Process | Potential of residual disability | Summary | Periodic report | | | | |
|---------|--------------------------|---------------------------------|----------------------------------|--|-----------------|--|--|--|--|
| [Samp | le mix-up] | | | | | | | | |
| 1 | Pathological examination | Preparation | Low | Thyroidectomy was performed based on the cytology. The examination of the removed thyroid showed no malignancy. During the re-examination, the histological preparation was found to have the other patient's name. The samples were mixed up in the microscopy. | 7 th | | | | |
| 2 | Pathological examination | Sample collection/ testing | Low | Mastectomy was performed based on the cytology. The pathological examination of the removed breast tissue showed fibroadenoma. The re-examination identified the sample mix-up in two patients who consecutively underwent outpatient needle biopsy. | , | | | | |
| [Test i | tem misidentifi | cation] | | | | | | | |
| 3 | Sample test | Sample collection/ testing | Unknown | The test item for blood sampling in a container for a special test was misidentified, and the sample was collected in a tube for biochemical examination. | 7 th | | | | |
| [Techn | ological/proced | lural error] | | | | | | | |
| 4 | Pathological examination | Sample analysis/ preparation | Low | Samples were partially mixed up with others collected on the same day during the preparation procedure for pathological examination of adenocarcinoma. A right upper lobectomy, right lower partial lobectomy, and concurrent chest wall resection were performed in the following month. Postoperative microscopy found no malignancy. The operation was indicated for this patient even though there was no malignancy. | 7 th | | | | |
| [Device | e/instrument de | efect] | | | | | | | |
| 5 | Sample test | Sample analysis/ preparation | Unknown | One of the reagents was not divided due to a defect in the test instrument. Creatinine was shown to be 2.11 instead of the actual value of 0.72. Based on the test result, Radicut was disallowed in the patient. Slonnnon and Glyceol were started instead. | | | | | |
| 6 | Sample test | Sample analysis/ preparation | Unknown | The measurement was artificially high due to the deteriorated standard solution, which had not expired. | 7 th | | | | |
| 7 | Sample test | Evaluation/ result reporting | Low | Crosscheck of the measurement with the previous value required re-examination, which identified a possible error in the previous test. It turned out the analyzer was defective. | | | | | |
| [Evalu | ation error] | | | | | | | | |
| 8 | Sample test | Evaluation/ result reporting | Low | Cross-matched blood was transfused in the patient who subsequently vomited. The inquiry made to the laboratory revealed a negative result had been reported to the patient with an incompatible blood type. | 7 th | | | | |

| No. | Fig. III-23 | Process | Potential of residual disability | Summary | Periodic report |
|-------|---------------------------|----------------------------------|----------------------------------|---|-----------------|
| Other | rs] | | v | | |
| 9 | Sample test | Sample collection/ testing | Low | The patient had an irradiating pain during blood sampling but was left for monitoring. The symptoms were not alleviated, and the patient was diagnosed with left antebrachial cutaneous nerve damage due to blood sampling. | |
| 10 | Sample test | Sample collection/ testing | Low | Blood sampling was attempted in the right forearm, right upper arm, bilateral legs, and left forearm with no success. The abnormality was noticed when the right upper extremity was subsequently relaxed and the patient started to cry. The patient was diagnosed with humeral fracture. The patient had been bed-ridden with osteoporosis and multiple joint contracture/deformity. | |
| 11 | Sample test | Sample collection/ testing | Low | A blood sample was collected by a laboratory technician. The patient experienced lancinating pain immediately after the butterfly needle was inserted into the median vein. The pain in the left hand persisted for one week, and the patient was treated at a neurological clinic. | 7 th |
| 12 | Sample test | Sample collection/ testing | Low | Blood sampling from the left brachial median artery was attempted three times with no success. The procedure was interrupted after the patient experienced numbness in the first to third fingers. An arterial blood sample was subsequently collected from the left groin. Numbness in the left upper arm, palm, and fingertips persisted even after the patient went home. | , |
| 13 | Sample test | Sample collection/ testing | Low | The peripheral nerve was damaged due to arterial blood sampling. The patient later presented with numbness at the outpatient clinic. | |
| 14 | Sample test | Evaluation/ result reporting | Low | The test had been conducted but the result did not arrive due to a system malfunction. | |
| 15 | Physiological examination | Sample collection/ testing | Low | A box labeled "sterilized EMG needles" was used as a used needle bottle. The sample was collected by using one of the used needles in the box. | |
| 16 | Sample test | Sample collection/ testing | High | The patient did not complain about numbness or pain when the blood sample was collected from the right inner elbow. The patient went home but later presented with pain at the needle insertion site and numbness in the right hand at the emergency room. The patient also experienced coldness in the right hand and muscle weakness, and complex regional pain syndrome was suspected. | 8 th |
| 17 | Sample test | Sample collection/ testing | High | Hematoma was formed after blood sampling. The patient started to experience pain in the right arm and lost strength. | |

| No. | Fig. III-23 | Process | Potential of residual disability | Summary | Periodic report |
|-----|-------------|---------------------------------|----------------------------------|--|-----------------|
| 18 | Sample test | Evaluation/ result reporting | Unknown | Prostate cancer was suspected based on the elevated prostate specific antigen (PSA). The patient underwent prostate biopsy and was told no malignancy was found. Two years later the patient had elevated PSA once again and was admitted to the hospital for detailed examination. The current attending physician checked the file containing electronic medical chart, patient referral and non-electronic test data and found two forms of past pathological examination reports. The correct pathological finding based on the examination conducted two years earlier was "malignant." However, there was the past examination result was recorded as "no malignancy" in the electronic medical chart. It turned out the correct finding and the explanation given to the patient were inconsistent. | 8 th |

Fig. III-40 Medical Adverse Events Related to Pathology Tests: 7th and 8th Reports

| | | | Mix-up | | | Technical/ | | Device/ instrument | | Result | Others | Total |
|---------------------------------|--------|---------|--------------|------|--------|---------------------|-----------------|-----------------------|----------------|------------------|--------|--------|
| | Sample | Patient | Test item | Site | Others | procedural error | Operation error | Defect | Entry error | Evaluation error | Otners | 1 otai |
| Ordering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Form/label issuing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Preparation | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Sample collection/ testing | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 10 |
| Sample analysis/ preparation | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 3 |
| Evaluation/ result reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 4 |
| Total | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 1 | 10 | 18 |

Fig. III-41 Medical Near-Miss Incidents Related to Pathology Tests: 19th to 22nd Reports

| | | | Mix-up | | | Technical/ | Instrument | | F | Result | Others | Total |
|---------------------------------|--------|---------|--------------|------|--------|---------------------|-----------------|--------|----------------|------------------|--------|-------|
| | Sample | Patient | Test item | Site | Others | procedural error | Operation error | Defect | Entry error | Evaluation error | Others | Total |
| Ordering | 0 | 5 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 33 | 45 |
| Form/label issuing | 10 | 15 | 41 | 0 | 30 | 2 | 0 | 1 | 1 | 0 | 32 | 132 |
| Preparation | 38 | 15 | 22 | 1 | 33 | 42 | 0 | 2 | 0 | 0 | 114 | 267 |
| Sample collection/ testing | 22 | 61 | 11 | 5 | 33 | 29 | 0 | 1 | 0 | 2 | 42 | 206 |
| Sample analysis/ preparation | 21 | 4 | 5 | 3 | 1 | 160 | 7 | 25 | 6 | 31 | 46 | 309 |
| Evaluation/ result reporting | 0 | 1 | 0 | 0 | 3 | 1 | 0 | 2 | 89 | 34 | 40 | 10 |
| Total | 91 | 101 | 81 | 11 | 101 | 236 | 7 | 31 | 96 | 67 | 307 | 1,129 |

Fig. III-42 Types of Medical Adverse Events Related to Pathology Tests

| Toma of toot | Number of reported events | | | | |
|---------------------------|--------------------------------|--|--|--|--|
| Type of test | October, 2004 to December 2005 | | | | |
| Sample test | 6 | | | | |
| Pathological examination | 2 | | | | |
| Physiological examination | 0 | | | | |
| Radiographic examination | 18 | | | | |
| Endoscopy | 18 | | | | |
| Ultrasound examination | 1 | | | | |
| MRI | 4 | | | | |
| Others | 2 | | | | |
| Total | 51 | | | | |

<Note>

Fig. III-43 Summary of Medical Adverse Events Related to Pathology Tests

October 2004 to December 31, 2005

| | October 2004 to December 31, 200 | | | | | | | |
|------------------------------------|------------------------------------|--|---|--|--|--|--|--|
| No. | Process | Potential of residual disability | Summary | | | | | |
| [Sample | [Sample mix-up] | | | | | | | |
| 1 | Form/ label issuing | High | A malignant tumor in the lung was strongly suspected based on the CT and cytological findings, and the patient underwent an operation. Postoperative examination of the removed lobe showed no malignancy. The re-examination revealed label misplacement on the samples of three patients. An operation would have been strongly recommended in this patient even if the cytology had shown no malignancy. | | | | | |
| [Patient | mix-up] | | | | | | | |
| 2 | Sample collection/testing Low | | A blood sample was collected in a tube for another patient due to a failure to check the name. The error was pointed out by the laboratory. | | | | | |
| 3 | Sample collection/testing | High | The blood samples of patients were mixed up. The actual white blood cell count was 1600 but was reported as 6000, and the patient received IV taxol. | | | | | |
| [Device/ | instrument defect] | | | | | | | |
| 4 Sample analysis/ Low preparation | | | TG measurement error occurred due to inadequate reagent placement in the analyzer. | | | | | |
| [Result | entry error] | | | | | | | |
| 5 | 5 Evaluation/ result reporting Low | | The patient pointed out the wrong blood type on the documentation when he was admitted. The data from the previous hospitalization showed the wrong blood type, which belonged to another patient. | | | | | |
| [Others] | | | | | | | | |
| 6 | Sample collection/ testing | Unknown | The blood glucose measurement unit was set by mmol/L on the measuring device. The display showed 6.3 mmol/L (114 mg/dL). However, it was misrepresented as 63 mg/dL and hypoglycemic treatment was given. | | | | | |
| 7 | Form/ label issuing | Unknown | Submission of a pathological examination request was neglected, and the sample was not submitted. The incident was noticed 15 days later when the physician-in-charge contacted the laboratory. | | | | | |
| 8 | Form/ label issuing | No description | An additional sample (tissue) was not submitted for examination due to lack of briefing. The examination was not conducted. | | | | | |

Fig. III-44 Medical Adverse Events Related to Pathology Tests

October 2004 to December 31, 2005

| | Mix-up | | | Technical/ instr | Devic instrun | | | Result | Others | Total | | |
|---------------------------------|--------|---------|--------------|------------------|------------------|---------------------|-----------------|--------|----------------|------------------|--------|-------|
| | Sample | Patient | Test item | Site | Others | procedural error | Operation error | Defect | Entry error | Evaluation error | Others | Totai |
| Ordering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Form/label issuing | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 |
| Preparation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sample collection/ testing | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| Sample analysis/ preparation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Evaluation/ result reporting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Total | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 8 |

[6] Database of Medical Near-Miss Incidents

The Committee for Preparing the Database of Medical Near-Miss Incidents has been working to select events reported by medical institutions to which periodic topics for event collection periods are applied and to select other events to be included in the database as a reference for developing medical safety measures. The database of medical near-miss incidents, including incidents selected from those reported in the 19th, 20th, 21st, and 22nd reports in 2006, is now available together with information categorized according to the general codes (Note 1) (Fig. III-45).

Fig. III-45 Database of Medical Near-Miss Incidents

| | | Date | Incident No. and number of incidents included |
|------------------|------------------------|---------------------|---|
| 19 th | 7 th report | January to March | 25 incidents selected from Incident No. 19-6 to No. 19-1247 |
| 20 th | 8 th report | April to June | 23 incidents selected from Incident No. 20-4 to No. 20-2125 |
| 21 st | 9 th report | July to September | 9 incidents selected from Incident No. 21-131 to No. 21-1278 |
| 22 nd | 9 th report | October to December | 15 incidents selected from Incident No. 22-134 to No. 22-1859 |

3. Medical Adverse Event Information to Be Shared

[1] "Medical Adverse Event Information to Be Shared"

In the process of individual review by Expert Analysis Groups of medical adverse events reported by participating medical institutions in 2006, a decision was made to publish event summaries that should be widely shared. The event summaries are shown in Fig. III-3-1.

Fig. III-3-1 Medical Adverse Event Information to Be Shared

| Summary | Details | Number of events | Periodic report |
|---|--|------------------|--------------------|
| Nursing care | Patients were scolded during assisted bathing. The patients required assistance in both cases. In one event, the water temperature was not checked before bathing a recumbent patient in the elevating bath. In the other event, hot water came out from the faucet after switching from the shower. | 2 events | 5 th |
| Drug | The patient on anticoagulant (warfarin) therapy had a brain infarction after temporarily discontinuing the drug in preparation for an examination at another clinical department (one event). In a patient on anticoagulant (warfarin) therapy, warfarin was switched to heparin before the operation. The patient had a brain infarction when heparin was switched back to warfarin (one event). A patient on anticoagulant (warfarin) therapy bled from the surgical wound on Day 9 and required hemostatic treatment (one event). Warfarin doses were adjusted based on thrombotest in all the cases. Two of the events occurred at the clinical department not responsible for regular anticoagulant dose adjustment. Lack of communication between the clinical departments involved in patient care was identified as a factor causing the events. | 3 events | $6^{	ext{th}}$ |
| Medical Treatment/ Medical procedure | The oral medication to be given to Patient B was concurrently given with the regular drug to patient A without checking patient names. Oral medications for three patients were prepared on the same tray. Two similar events had been reported in this project in the past. 1) The oral medication to be given through the gastric tube was put into the drug cup and placed on the tray containing the other patient's medications. The oral medication of the other patient was given to this patient by mistake. 2) Three injection syringes with no patient names were placed on a tray while preparing for normal saline lock (Note 1). The syringe used for patient A with some remaining drug inside was put back on the tray and subsequently used again for patient B. The drugs were mixed up while patient/drug crosscheck was neglected or impossible to conduct. There was either a lack or violation of certain rules. | 1 event | 7 th |

(Note 1) IV catheter (infusion catheter) is filled with normal saline for temporary disuse.

| Summary | Details | Number of events | Periodic report |
|-------------------------|---|------------------|-----------------|
| Drug | "Amount of preparation" was confused with "amount of ingredient" in four events, resulting in an overdose (See No. 4, No. 5, No. 6, and No. 7 in Fig. III-1, page 60, the 8 th report for the event summaries). In all these cases in which the patients sought treatment at multiple medical institutions, the current physicians misunderstood the descriptions in the prescription or the referral issued by previous physicians and ordered treatment based on the misunderstanding. | 4 events | 8 th |
| Left/right confusion | Two events involving left/right confusion of surgical site were reported. 1) The left eye was to be operated on. However, the physician wrote "right eye" on the operation room reservation request by mistake. He/She also entered "right eye" in the computer to order preoperative eye drop instillation at the ward. The left/right confusion was detected at the ward, and the eye drops were given to the left eye correctly. The entry in the operation room reservation request was not corrected, however, and the operation was conducted on the right eye. 2) The left knee was to be operated on. The surgical site was not marked on the previous day. After the patient was taken to the operation room, the nurse, the anesthesiologist, and the surgeon all confirmed operation on the left knee but the surgical site was not marked. The anesthesiologist even checked with the patient if the left knee was to be operated on. However, no one noticed the right knee was disinfected and covered with surgical drape, and the operation was performed. The surgical site was not marked in either case. | 2 events | 8 th |
| Infusion pump | Two events involving injection site swelling due to extravascular leakage during continuous IV infusion using an infusion pump (See No. 2 and No. 3 in Fig. III-10, page 85, the 8 th report for the event summaries). Both cases involved pediatric patients. In one event, the injection site was checked 4 hours and 20 minutes before the swelling was found. In the other event, the fingertip and the injection site were checked 4 times in 10 hours. | 2 events | 8 th |

[2] "Medical Adverse Event Information to Be Shared, Second Report"

Reported events similar to those included in Medical Adverse Event Information to Be Shared in the previous report were included herein as "Medical Adverse Event Information to Be Shared, Second Report." The fifth report included a similar event involving glycerin enema in a standing patient. The sixth report included a similar event involving insulin.

The seventh report included similar events involving glycerin enema in a standing patient and use of anti-rheumatic (methotrexate).

The eighth report included similar events involving glycerin enema in a standing patient and burns caused by nursing care.

Fig. III-3-2 Medical Adverse Event Information to Be Shared

| Summary | Details | Periodic report |
|----------------------|---|--------------------|
| Medical procedure | Preoperative glycerin enema was performed in the patient standing in the toilet on his request. Rectal perforation occurred, presumably due to the enema. | |
| Drug | 1) The unit for insulin was mistaken as mL and given intravenously. The fifth report included an event in which the unit of insulin was mistaken as mL and an event in which the insulin unit was mistaken by one digit and 10 times the intended dose was given. All three events involved a physician or a nurse with experience of less than a year. In two of the events, it was the first time for the caregiver to use insulin in the mode of administration. | 6 th |
| Medical procedure | Glycerin enema was performed in a patient who experienced difficulty in defecating while he was standing and bending forward in the toilet on his request. The patient subsequently experienced persistent bleeding and required hemostatic treatment. | |
| Drug | The patient had been on twice-weekly oral anti-rheumatic (methotrexate). The drug had been kept by the patient after he was admitted (the patient took the drug three times). After the examination, it became difficult for the patient to keep the drug. The drug was kept by the hospital but given daily thereafter by mistake, resulting in an overdose. | 7 th |
| Medical procedure | The patient requested that an enema be performed in the toilet. Glycerin enema 120 mL was given to the patient standing and bending forward in the toilet. The patient started bleeding when producing a hard stool. Endoscopic hemostasis was performed for the continuing hemorrhage after the physician's examination. The individual who performed the enema was aware of potential enema-related accidents included in the in-house safety alert. However, she did not think she might cause such an accident. | 8 th |

| Summary | Details | Periodic report |
|--------------|--|--------------------|
| Nursing care | Hot water was prepared for a footbath for a patient in a coma by a nurse wearing rubber gloves. The nurse checked the water temperature by dipping her fingertips in the water. She thought it was not too hot, and started giving the footbath. The patient's skin became tight. The patient experienced redness and blisters in the lateral malleolus to the fifth toe and blisters in the medial malleolus of the left foot. One sheet of bedbath towel kept in the warmer was taken out and placed on the patient's left forearm for two minutes before blood sampling because the blood vessel was not defined. The patient subsequently experienced persistent redness in the arm, two round blisters about 2.5 cm in diameter on the wrist, and small blisters on the upper forearm. The water was initially too hot for a shower, and the temperature was immediately adjusted by turning on the cold water. After the shower, the patient had a horseshoe-shaped abrasion on the right hip, the left heel and the entire back, and redness and blisters in the third, fourth and fifth fingers of the right hand. The dermatologist diagnosed second-degree burns. The patients involved in the events were either unable to communicate at all or unable to communicate sufficiently. | 8 th |