Inpatient Clinico-Occupational Survey Summary (Japan Organization of Occupational Health and Safety)

The Inpatient Clinico-Occupational Survey, which is unique to the Rosai Hospital Group (as shown in Table 1), is a large-scale survey (about 250 thousand cases per year) that has concurrently investigated both clinical and occupational history since 1984.

This survey uses clinical and epidemiological methods to examine the relationship between working environment and illness among working individuals. It is conducted to maintain and promote health among working individuals, assist in the prevention and treatment of illness, and provide employment support.

The data were obtained from a survey conducted at the nationwide Rosai Hospitals by utilizing the group's network.

This is the only large-scale database in Japan that combines information regarding clinical history with information regarding occupational history.

The clinical history survey, which includes patients hospitalized in the Rosai Hospital Group and who participated in this survey, utilizes the summary of inpatient treatment entered by our doctors.

Definitive diagnoses are coded using the International Statistical Classification of Diseases and Related Health Problems, 10th Revision (ICD-10). In contrast, medical procedures are coded using ICD, 9th Revision, Clinical Modification (ICD-9CM).

The occupational history survey, which includes patients hospitalized in the Rosai Hospital Group who are aged ≥15 years (including self-employed patients and patients with no occupational history), investigates participants' current occupations, as well as their three most recent occupations.

Occupational history information is coded in accordance with the Japan Standard Industrial Classification (JSIC) and the Japan Standard Occupational Classification (JSOC) published by the Japanese Ministry of Internal Affairs and Communications.

Clinical history information, occupational history information, lifestyle habit information (e.g., smoking history), and histories of special medical examinations performed in accordance with the Industrial Safety and Health Law are registered into the Inpatient Clinico-Occupational Database by each hospital's Health Information Manager and Occupational History Surveyor (as shown in Table 2).

Table1 Number of hospitals and hospital beds by fiscal year (April to March)

Year	No. Hospitals	No. Beds	Year	No. Hospitals	No. Beds
1984	37	13,668	2002	39	15,118
1985	37	14,025	2003	39	15,005
1986	37	14,196	2004	38	14,561
1987	38	14,396	2005	38	14,403
1988	38	14,516	2006	36	14,097
1989	38	14,700	2007	35	13,751
1990	38	14,770	2008	34	13,302
1991	39	15,470	2009	34	13,243
1992	39	15,470	2010	34	13,187
1993	39	15,470	2011	34	13,067
1994	39	15,470	2012	34	13,072
1995	39	15,470	2013	34	13,067
1996	39	15,424	2014	34	13,067
1997	39	15,428	2015	34	13,065
1998	39	15,336	2016	34	12,838
1999	39	15,336	2017	34	12,821
2000	39	15,323	2018	33	12,821
2001	39	15,323			

Table2 Items in Inpatient Clinico-Occupational Database of Rosai Hospital Group

Basic information

- ● Hospital name
- ● Patient ID number (concealed)
- ● Sex
- ● Postal code
- ● Date of hospital admission
- ● Date of hospital discharge
- ● Duration of hospitalization
- ● Hospital department
- ● Age at discharge
- ● Health insurance classification (Industrial Accident Compensation Insurance/Other)
- ● Outcome at discharge

Medical history information

- ● Hospitalization route
- ● Department before transfer
- ● Discharge route
- ● Department after transfer
- ● Autopsy
- ● Cause of death
- ● Definitive diagnosis 1-7
- ● Pathological diagnosis 1-4
- ● Surgery/treatment 1-6
- ● Date of surgery/treatment 1-6
- ● Anesthesia type 1-6

Occupational history information

Occupational history information (Present and three most recent jobs)

- ● Industry classification
- ● Occupational classification
- ● Age at start of work
- ● Age at end of work
- ● Longest time engaged in industry
- ● Longest-engaged industry
- ● Longest time engaged in occupation
- ● Longest-engaged occupation

Special medical examination

- ● Organic solvents
- ● Lead
- ● Tetraalkyl lead
- ● Specific chemical substances
- ● Hyperbaric work
- ● Ionizing radiation
- ● Pneumoconiosis
- ● Vibration syndrome
- ● Visual display terminal (VDT) syndrome
- ● Asbestos

Working conditions in current job

- ● Total overtime hours (per month)
  - ・ Number of work days (per week)
  - ・ Working hours (per day)
  - ・ Overtime(in last 3 months)
  - ・ Overtime hours (average in last 3 months)
- ● Night work
  - ・ Frequency of night work (monthly average)
- ● Shift work
  - ・ Shift system (2 shifts, 3 shifts, other)
- ● Discretionary labor system (full-time employees only)
- ● Variable working hour system (full-time employees only)
- ● Employment status

Anxiety related to returning to work after discharge
● Desired post-discharge job
● Anxiety about returning to work
● Nature of anxiety
・ Workplace's understanding
・ Life in the workplace
・ Performance of duties
・ Timing of return to work
・ Commute method
・ Other
Medical history of Lifestyle related disease
● Lifestyle diseases
● Type of lifestyle disease
・ Hypertension
・ Hyperlipidemia
・ Diabetes
・ Hyperuricemia
・ Obesity
Height/weight (for determination of body mass index)
● Height (cm)
● Weight (kg)
Smoking habits
● Smoking frequency
● Age at start of smoking
● Age at smoking cessation
● Smoking volume
Alcohol consumption habits
● Alcohol consumption frequency
● Age at start of alcohol consumption
● Age at quitting alcohol consumption
● Alcohol consumption volume