**Databases available for pharmacoepidemiology researches in Japan (information obtained from suvey answers as of October 2018)**

| | Hospital-based | | | | | | | Insurance-based | | | | | Pharmacy-based | | | | | Others | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NHO NCDA | CCT | HOEI/RWD | MID-NET | NHO MIA | MDV | JMDC | NDB | JMDC | JammNet | MinaCare | Medi-Scope | Medi-Trend | IQVIA NPA data | JMIRI | Japan Medical Research Institue , (a.k.a. Nihon-Chouzai) | PFR | NHWS | NCD |
| Database administrator | NHO | ConvergenceCT Japan K.K. | Real World Data, Co., Ltd. | Pharmaceuticals and Medical Devices Agency | NHO | Medical Data Vision Co.,Ltd. | JMDC | Ministry of Health, Labour and Welfare | JMDC | JammNet | MinaCare | KYOWA KIKAKU Ltd. | KYOWA KIKAKU Ltd. | IQVIA Solutions Japan K.K. | JMIRI | Japan Medical Research Institue Co.,Ltd. (a.k.a. Nihon-Chouzai) | ConvergenceCT Japan K.K. | SSRI, KH | National Clinical Database |
| Database name | NCDA | ConvergenceCT Global Research Network (CGRN) | RWD database (RWD-DB) | Medical Information Database Network | MIA | EBM Provider® | JMDC Claims Database (Hospital-based) | National Database of Health Insurance Claims and Specific Health Checkups of Japan | JMDC Claims Database (Payer-based) | JammNet database | MinaCare Database | Medi-Scope | Medi-Trend | IQVIA NPA data | JMIRI Pharmacy Claims DB | NIHON CHOUZAI Pharmacy Claims DB | PFR | NHWS : National Health and Wellness Survey Database | National Clinical Database |
| Contact information | 700-dbproject@mail.hosp.go.jp | cct-info@cct-japan.co.jp | info@rwdata.co.jp | wakaru-midnet@pmda.go.jp | 700-dbproject@mail.hosp.go.jp | ebm_sales@mdv.co.jp | mdbhelp@jmdc.co.jp | suisin@mhlw.go.jp | mdbhelp@jmdc.co.jp | sales@jamm-net.co.jp | https://www.minacare.co.jp/contact | https://www.kk-kyowa.co.jp/enquiry/ | medi-trend_helpdesk@kk-kyowa.co.jp | | cs@jmiri.jp | soken-info@jpmedri.co.jp | cct-info@cct-japan.co.jp | nhws@ssri.com | http://www.ncd.or.jp/ |
| Web site URL | https://www.hosp.go.jp/cnt1-1_000070.html | http://cct-japan.co.jp | https://rwdata.co.jp/ | http://www.pmda.go.jp/safety/mid-net/0001.html | https://www.hosp.go.jp/cnt1-1_000070.html | http://www.mdv.co.jp/ | https://www.jmdc.co.jp/ | https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou_iryou/iryouhoken/reseputo/index.html | https://www.jmdc.co.jp/ | http://www.jamm-net.co.jp/ | http://minacare.co.jp/ | https://www.kk-kyowa.co.jp/ | http://www.kk-kyowa.co.jp | www.iqvia.co.jp | https://www.jmiri.jp/ | https://www.jpmedri.co.jp/ | http://cct-japan.co.jp | https://www.ssri.com/service/omnibus/nhws/ | http://www.ncd.or.jp/ |
| Database Overview | | | | | | | | | | | | | | | | | | | |
| General description of the database | Clinical database based on 61 NHO hospital information systems | Network to collect, de-identify and summarize various data from medical institutions | A database that integrates medical information such as electronic medical record, DPC, and claim data. | The medical information Database network system for utilizing in safety assessment managed by PMDA under the Act on the Pharmaceuticals and Medical Devices Agency, consist of Hospital Information System (HIS) data, DPC data and Claims data of 10 partner organizations including 23 hospitals. | Administrative database for inpatient and outpatient consists of 143 NHO hospitals in Japan. | Administrative database for inpatient and outpatient consists of 372 large (mainly tertiary) hospitals in Japan | Claims database consists of inpatients and outpatients from multiple DPC/non DPC hospitals | Database of health insurance claims and specific health checkups for preparation, implementation and evaluation of medical cost optimization plan | Claims database consists of subscribers of employees'plural Insurance programs as complete | Claims database using insurance programs | The MinaCare Corporate insurance database includes regularly updated data of health checkups as well as medical and pharmaceutical claims. The population covered by the database includes workers and their family members, and the database covers a wide range of age groups. | Database based on health insurance, include of all rezept(include dental rezept),except of Organ transplant patient and comment field for all patients. | Out of hospital cleims DBShops: about 870shops Number of cleims:about 16 millionsheets / year | Pharmacy claims database collecting extramural dispense claims from 7,500 pharmacies nationwide. # of prescriptions: 145 million in 2017. | Pharmacy claims database contains extramural dispense records | Claims database with extramural dispense claims and primary data (e.g. QoL) from patients visited one of the Nihon-chozai pharmacies. Nihon-chozai is the 2nd largest chain in Japan and has 599 pharmacies nationwide. | Analysis service of Pharmacy claims. Information listed in the Pharmacy claims is available. Reporting without the time lag is possible. | NHWS collects data from patients in 10 countries. The data includes more than 165 disease areas and provides a variety of metrics, such as prevalence, diagnosis and treatment rates and more than 10,000 other variables not mentioned here. | Multidiciplinary registry platform initially developed by surgery related professional societies in Japan. Currently managing nationwide registries for various surgeries, interventions, pathology, as well as multiple cancer registries. Also maintains hospital based DPC / claims database which can be used together with the registry data. |
| Data source | Electronic medical chart, Lab test results, Inpatient vital | DPC (Fomat 1), DPC (E file), Medical claim, Pharmacy claim, Electronic medical chart, Lab test results | DPC (Fomat 1), DPC (E file), Medical claim, Electronic medical chart, Lab test results | | DPC (Fomat 1), DPC (E file), Medical claim | DPC (Fomat 1), DPC (E file), Medical claim, Others | DPC (Fomat 1), DPC (E file), Medical claim, DPC (H file) | | Medical claim, Pharmacy claim, Health checkup, Others | Medical claim, Pharmacy claim, Others | DPC (E file), Medical claim, Pharmacy claim, Health checkup, Others | Medical claim, Pharmacy claim, Others | Pharmacy claim | Pharmacy claim | Pharmacy claim | Pharmacy claim, Others | Others | Others | DPC (Fomat 1), DPC (E file), Medical claim, Registry |
| Data source: Others, notes | | | | Order-entry data, Laboratory test results, DPC data, Claim data of collaborative medical institutions (Tohoku-Univ., Chiba-Univ., Univ-Tokyo, Hamamatsu-Med., Kagawa-Univ., Kyushu-Univ., Saga-Univ., Kitazato-Group., NTT-Group., Tokushukai-Group) | | DPC(F file)/DPC(D file)/DPC claims/blood test data *Blood test data is limited to some hospitals and numeric results. | | | Eligibility information | DPC Receipt | Dental claim | DPC rezept ,Dental rezept | | Extramural dispense claims | | Patient survey | Out-of-hospital dispensing record | Patient-reported Information | Data are registered based on records from patient record, discharge summaries, operative records, and laboratory records. |
| Data period: Starting year/month | Jan-16 | Depending on each institution | Depending on when each institution introduced electronic medical chart | Jan-09 | Apr-10 | Apr-08 | Apr-14 | Apr-09 | Jan-05 | Apr-08 | Apr-08 | Jan-10 | Sep-09 | Jan-15 | Jan-06 | Apr-01 | Most recent 2 years | 1998 (2008 for Japanese data) | 2011- |
| Data period: Latest year/month | Previous day | Depending on each institution | Depending on when each institution introduced electronic medical chart | | Sep-18 | Jul-18 | Jul-18 | | Apr-18 | Jun-18 | Mar-17 | Aug-18 | Oct-18 | 1 month ago | Sep-18 | Api 2001 | Previous day | 2017 | 2017 |
| Data period: notes | some hospitals | | | | | ※Mainly from April 2010 | | | | | | mainly from Jan 2013 | (3 years data period by WEB Service) | Part of the data is available from April 2008. | | | | 2018 Data will be available in January, 2019 | 2011-2017 |
| Size | | | | | | | | | | | | | | | | | | | |
| Number of unique identifiers | 1,600,000 | About 3,600,000 | approx. 20 million | currently >4,000,000(Apr-18) | approx. 20,000,000 | About 24,900,000 | approx. 5.4 million | | approx. 5.6 million (population-based) | approx. 2.80 million | approx. 5.6 million | Unique patient approx. 5.5 million | | Unknown | | 13,600,000 | About 3,000,000 | 2 million | Around 10,000,000 cases |
| Annual number of unique identifiers (latest) | | About 300,000 | 2.08 million | | approx. 2,500,000 | About 10,220,000 | approx. 2.25 million | | approx. 4 million | approx. 2.50 million | approx. 1.8 million | Unique patient approx. 3.66 million | 3,460,000 | approx. 29,760,000 | 11,000,000 | 3,090,000 | About 1,600,000 | Japan Data:30,000 (Both projected and non projected numbers are available.) | around 1,700,000 cases |
| Annual number of patients (latest): the latest year or period | | 2017 | 2016 | | Apr. 2017 ~ Mar. 2018 | 2017/04-2018/03 | Aug - 16 to Jul - 17 | | Jan to Dec 2017 | Apr.2017－May2018 | 2016/4 - 2017/3 | 2017Y | Oct.2017-Sep.2018 | 2017 | Oct. 2017 - Sep. 2018 | 3,090,000 (Apr 2017-Mar 2018) | 2017 | 2017 | |
| % coverage of population | approx. 1.3% | About2.8% of Japnanese population | 1.6% | | approx. 17% of population of Japan | about 8% of Japnanese population about 22% of total number for large hospitals | 1.8% of DPC/non - DPC hosipitals in Japan | | 4% of Japanese population | approx2% of insurance programs | 1.7% of popuation <75 yrs | Covers 4.3% of the total population in Japan (total population in 2016) | 2.0% of annualprescription (Surveyby JapanPharmaceutical Association) | approx. 18.2% of total extramural dispense claims (based on Survey by Japan Pharmaceutical Association) | 6.9% of annual prescription (Survey by Japan Pharmaceutical Association) | 1.6% of total extramural dispense claims (Survey by Ministry of Health) | 0.7% of total extramural dispense claims.(Survey by Ministry of Health) | 0.03% of the adult population | Around 95% of all cases of specific surgeries / interventions performed in Japan |
| Annual N of outpatients (latest) | | About 200,000 | 1.8 million | | approx. 2,000,000 | About 9,840,000 (2017/04-2018/03) | approx. 2.17 million | | approx. 3.4 million | approx. 2.42 million | approx. 1.7 million | approx. 3.64 million patients | | | | | About 1,600,000 | | NA |
| Annual N of inpatients (latest) | | About 100,000 | 279,000 | | approx. 670,000 | About1,930,000 (2017/04-2018/03) | approx. 0.37 million | | approx. 0.2 million | approx. 40,000 | approx. 90,000 | approx. 192 thousand | | | | | | | NA |
| Annual N of treated diabetes patients (latest) | | About 64,000 (The number of patients with the disease of ICD10 E10-E14. The number of patients that a diabetes medicine was prescribed.) | 226000 | | | About 1,400,000 (2017/04-2018/03) ICD10:E10-E14 | approx. 0.32 million(ICD10: E10－E14) | | approx. 0.21 million (ICD10 : E10 - E14) | approx. 310,000 ICD10 : E10－E14 | approx. 100,000 | | | | | 162,249 (Apr 2017-Mar 2018) | | Data is available. | NA |
| Annual n of influenza (diagnosed) patients (latest) | | About 1,500 (The number of patients with the disease of ICD10 J10,J11. The number of patients that a Influenza medicine was prescribed.) | 84000 | | | About240,000 (2017/04-2018/03) ICD10: J10,J11 | approx. 56000 (ICD10: J09,J10,J11) | | approx. 0.43 million (ICD10: J09,J10,J11) | approx. 140,000 ICD10: E10－E14 | approx. 190,000 | | | | | 58,452 (Apr 2017-Mar 2018) | | Data is available. | NA |
| Follow-up duration | | 2.3 years | Average:1286 days | | | Average:499 days | ≥2 years:1.6 million ≥1 year: 1.9 million | | ≥8 years: 0.46million ≥5 years: 1.53million ≥3 years: 2.88million ≥1 year : 4.82llion | max 9 years | ≥5 years: 0.9 million, ≥ 3 years: 1.8 million, ≥1 year: 3.6 million | | | | Median 2 years ≥3 years:24% ≥6 years: 13% ≥12 years: 2% | ≥3 years: 561,000 million ≥6 years: 266,000 million ≥12years: 5.8 million (Oct 2017-Sep 2018) | | | Depending on the registry, 30day, in-hospital, 1-15 year follow-ups |
| Age Distribution | | | | | | | | | | | | | | | | | | | |
| 0-14 years old | | 13.7% | 10.8% | | | 14.37% | 10% | | 19% | approx. 19% | approx. 15% | 25.0% | 15.1% | 16.2% | 15 | 11.4% | | 0 | Depends on the registry |
| 15-64 years old | | 50.2% | 47.2% | | | 50.90% | 42% | | 78% | approx. 58% | approx. 80% | 74.0% | 50.6% | 53.1% | 52.4 | 52.5% | | 67% | Depends on the registry |
| 65 years old or older | | 36.1% | 42% | | | 34.73% | 48% | | 3% | approx. 23% | approx. 5% | 1.0% | 34.3% | 30.7% | 32.6 | 36.0% | | 33% | Depends on the registry |
| Age distribution: notes | A figure placed in our booklet. | | all generation | | | | | | | | < 15 yrs: 15% ≥15, < 65 yrs: 80% ≥ 65 yrs: 5% | 2017Y | | | | | | Respondents are 18 or older. | Depends on the registry |
| Prescriptions | | | | | | | | | | | | | | | | | | | |
| Drug master | HOT code | YJ code | ATC (EphMRA), ATC (WHO), YJ code, HOT code, Reimbursement code | Others | Reimbursement code | ATC (EphMRA), YJ code, Reimbursement code | ATC (EphMRA), ATC (WHO), YJ code, Reimbursement code | | ATC (EphMRA), ATC (WHO), YJ code, Reimbursement code | ATC (EphMRA), Reimbursement code | Reimbursement code | ATC (EphMRA), YJ code, Reimbursement code, Ohters | ATC (EphMRA), YJ code | ATC (EphMRA), Reimbursement code | ATC (EphMRA), ATC (WHO), YJ code, HOT code | YJ code | YJ code | None | Reimbursement code |
| Drug master: Others, notes | | | | The standard code masters are created by PMDA based on the masters or similar lists managed by external institutions. | | Titer | | | | | | bland name , mark of genelic or original drag | | | | | | | |
| Dispensing (in-hospital) | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Limited | |
| Dispensing (out-of-hospital) | Yes | Yes | No | | Yes | Yes | Limited | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Limited | |
| Date of dispending | No | Yes | No | No | Yes | Yes | No | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Limited | |
| Date of presription | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Limited | Yes | Yes | Yes | Yes | Limited | Yes | Yes | Yes | Yes | Limited | |
| Dossge of prescription | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | |
| Days of supply | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Administration | Yes | Yes | Limited | Yes | Yes | No | No | | Limited | Limited | No | Yes | Limited | No | Yes | Yes | Yes | Limited | |
| Injection | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Limited | Limited | Limited | No | Yes | |
| Vaccine | Limited | Yes | Limited | Limited | Limited | No | No | No | No | No | No | No | No | No | No | No | No | Yes | |
| Procedures | | | | | | | | | | | | | | | | | | | |
| Procedure master | | Reimbursement code | Reimbursement category, Reimbursement code | Others | Reimbursement category, Reimbursement code | Reimbursement category, Reimbursement code | Reimbursement category, Reimbursement code | | Reimbursement category, Reimbursement code | Reimbursement category, Reimbursement code | Reimbursement code | Reimbursement code, Others | None | None | None | None | | None | Reimbursement code |
| Procedure master: Others, notes | | | | The standard code masters are created by PMDA based on the masters or similar lists managed by external institutions. | | | | | | | | | | | | | | | |
| Procedure name | Limited | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Limited | Yes |
| Date of procedure | Limited | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | Yes |
| Hospitalization | | | | | | | | | | | | | | | | | | | |
| Date of hospital admission | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Limited | Yes |
| Medication while hospitalization | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Limited | No | No | Yes |
| Hospital discharge summary | Yes | Yes | Limited | Limited | Yes | Yes | Yes | No | No | No | No | Limited | No | No | No | No | No | No | Yes |
| Diagnosis | | | | | | | | | | | | | | | | | | | |
| Diagnosis master | | ICD10 code (2013) | Standard diagnosis code (Reimbursement code), ICD10 code (2013) | Others | Standard diagnosis code (Reimbursement code), ICD10 code (2013), ICD10 code (other than 2013) | Standard diagnosis code (Reimbursement code), ICD10 code (2013), ICD10 code (other than 2013) | Standard diagnosis code (Reimbursement code), ICD10 code (2013), ICD10 code (other than 2013) | | Standard diagnosis code (Reimbursement code), ICD10 code (2013), ICD10 code (other than 2013) | Standard diagnosis code (Reimbursement code), ICD10 code (2013), ICD10 code (other than 2013) | Standard diagnosis code (Reimbursement code), ICD10 code (2013) | Standard diagnosis code (Reimbursement code), ICD10 code (2013) | None | None | None | None | | None | ICD10 code (other than 2013) |
| Diagnosis master: Notes | | | | The standard code masters are created by PMDA based on the masters or similar lists managed by external institutions. | | | | | | | | | | | | | | | |
| Diagnosis name | Limited | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Limited | No | Yes | Yes |
| Laboratory test | | | | | | | | | | | | | | | | | | | |
| Lab test master | JLAC code | Hospital original code | JLAC code, Reimbursement code | Others | Reimbursement code | JLAC code, Reimbursement code, Hospital original code | Reimbursement code | | Reimbursement code | Reimbursement code | Reimbursement code | Reimbursement code | None | None | None | None | | None | None |
| Lab test master: Others, notes | | | Original lab test master based on Japan Laboratory Code Version 10 (JLAC10) | The standard code masters are created by PMDA based on the masters or similar lists managed by external institutions. | | | | | | | | | | | | | | | |
| Lab test (ordering) | Yes | Yes | Yes | Yes | Yes | No | No | Yes | No | Yes | Yes | Yes | No | No | No | No | No | Limited | Limited |
| Lab test results | Labo test for sample (e.g., blood, urine, microbe) | Labo test for sample (e.g., blood, urine, microbe) | Labo test for sample (e.g., blood, urine, microbe), Genetic test (e.g., somatic mutation) | Labo test for sample (e.g., blood, urine, microbe), Physiological test (e.g., respiratory function, braib waves, supersonic waves), Others | None | Labo test for sample (e.g., blood, urine, microbe) | None | None | None | None | None | None | None | None | | None | | Labo test for sample (e.g., blood, urine, microbe), Physiological test (e.g., respiratory function, braib waves, supersonic waves) | Labo test for sample (e.g., blood, urine, microbe), Physiological test (e.g., respiratory function, braib waves, supersonic waves), Results of diagnostic imaging (e.g., report of imaging interpretation), Genetic test (e.g., somatic mutation) |
| Lab test results: Others, notes | | | lab test (blood, urine, cerebrospinal fluid, pleural effusion, ascites, bile, blood marrow etc..) | Radiography examnation data、Microbiological test data | | *Blood test data is limited to some hospitals and numeric results. | | | | | | | | | | | | | Varies by registry |
| Demographic, Vital | | | | | | | | | | | | | | | | | | | |
| Birth year | No | Yes | Yes | Limited | Yes | Limited | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes |
| Birth month | No | Yes | Limited | Limited | Yes | Limited | Yes | Limited | Yes | Yes | Yes | Yes | No | No | Yes | No | Yes | No | Yes |
| Birth date | No | Yes | Limited | Limited | Yes | No | No | No | No | No | Limited | No | No | No | No | No | Yes | No | Limited |
| Age | No | Yes | Limited | Yes | Yes | Yes | Limited | | Limited | Yes | Yes | Yes | Yes | Yes | Yes | Limited | Yes | Yes | Yes |
| Height | Limited | Yes | Limited | Limited | Yes | Limited | Limited | Limited | Limited | No | Limited | No | No | No | No | Limited | No | Yes | Yes |
| Wieght | Limited | Yes | Limited | Limited | Yes | Limited | Limited | Limited | Limited | No | Limited | No | No | No | No | Limited | No | Yes | Yes |
| Blood pressure | Yes | Yes | Limited | No | No | Limited | No | Limited | Limited | No | Limited | No | No | No | No | Limited | No | Yes | No |
| Insurance Program | | | | | | | | | | | | | | | | | | | |
| National Health Insurance | No | Yes | No | Yes | Yes | Yes | Yes | Yes | No | Limited | No | | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Government-managed Health Insurance | No | Yes | No | Yes | Yes | Yes | Yes | Yes | No | No | No | | Yes | Yes | Yes | Yes | Yes | Limited | Yes |
| Society-managed Health Insurance | No | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Limited | Yes |
| Mutual Society of Health Insurance | No | Yes | No | Yes | Yes | Yes | Yes | Yes | No | No | No | | Yes | Yes | Yes | Yes | Yes | Limited | Yes |
| Elderly Person's Medical Program | No | Yes | No | Yes | Yes | Yes | Yes | Yes | No | Limited | No | | Yes | Yes | Yes | Yes | Yes | Limited | Yes |
| Data Access | | | | | | | | | | | | | | | | | | | |
| Access to raw data via web | No | Limited | Yes | No | No | Limited | Yes | No | Yes | Limited | No | Yes | Yes | Limited | Limited | Yes | No | Limited | No |
| Access to origical medical charts | Yes | Limited | No | No | Yes | No | No | No | No | No | No | No | No | No | No | No | No | Limited | Limited |
| Timing of data update | Daily | Monthly | | | Every 3 months | Monthly | Monthly | Monthly | Monthly | Monthly | Irregularly | Monthly | Monthly | Monthly | Monthly | Daily | Daily | Annually | Annually |
| Timing of data update: notes | | | every 2 - 6 month | | | | | | | | | | | | | | | | |
| Latest data | Previous day | 1 month ago | 1 month ago | No lag time | 1-3 months ago | 2 months ago | 2 months ago | | 5 months ago | 3 months ago | | 2.5 months ago | 1 month ago | 1 month ago | 1 month ago | Previous day | Previous day | 2017 | Data fixes annually. The latest is 2017 |
| Publication | | | | | | | | | | | | | | | | | | | |
| Presentation | a few | Presentations at the Japan Association for Medical Informatics, the Japan Society for Health Care Management, and The Japanese Society of Clinical Pharmacology and Therapeutics, etc. | 2 | Japanese Society for Pharmacoepidemiology, Japan Association for Medical Informatics, etc. | a few | 47 | | | | | | 2 | a few | Many | Many | Many | | The total of posters and manuscripts is more than 1,300 | Numerous |
| Publication to peer review journal | a few | 4 | 0 | | a few | 10 | | | | | | 0 | | 3 (as of Oct., 2018) | Many | Many | 0 | The total of posters and manuscripts is more than 1,300 | Numerous |