



**Faculty of Medicine, Siriraj Hospital
Mahidol University**

STATISTICAL REPORT 2019





Statistical Report 2019

Siriraj Hospital

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Consultants

Assoc. Prof. Visit Vamvanij, MD	Director of Siriraj Hospital
Assist. Prof. Sanan Visuthisakchai, MD	Vice Director of Siriraj Hospital
Departments / Divisions	Faculty of Medicine Siriraj Hospital

Working Group

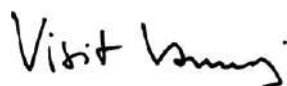
Miss.Kanyaporn Trongsujarit	Head of Medical Record Division
Mr.Preecha Jumnongsin	Head of Out Patient Medical Record Unit
Miss.Sunisa Sriart	Head of In Patient Medical Record Unit
Miss.Penporn Chomchatchawan	Head of Medical Coding Unit
Mr.Wichit Khamphul	Head of Medical Statistics Reporting Unit
Mr.Wootisak Singhto	Head of General Administration Unit
Mr.Kittiphoom Thongsom	Computer Technical Officer
Miss.Pornchanut Mungnoi	Academic Statistician
Mrs.Tassanun Klaiukson	Medical Statistician
Mr.Pranom Thaotthiam	Medical Statistician
Miss.Suchanan Atswathumarat	Medical Statistician

Foreword

Siriraj Statistical Report 2019 is formulated to present the patient care statistics of the clinical service units, supporting units and departments. The content is comprised of general, out-patient, in-patient and other medical services statistics. The Medical Record Division is responsible for tracking and correcting data, inspecting and cooperating with involving departments in order to get the comprehensive and accurate information.

On behalf of Siriraj Hospital, I would like to thank the departments/divisions, Human Resource Department, Nursing Department, Siriraj information technology department and every personnel in the relevant divisions who kindly cooperate and support in submitting information monthly and annually to make this report completed.

I also hope that this statistical report will be useful and beneficial to healthcare personnel. However, if there is any error occurring in the report; please kindly inform the Medical Record Division.



Assoc. Prof. Visit Vamvanij, MD

Director of Siriraj Hospital

Contents

	Page
General data in 2019	
Number of personnel classified by position.....	3
Percentage of personnel classified by position.....	3
Number of physicians classified by field of specialty.....	4
Number of beds in each department classified by types of bed.....	5
 Out-patients in 2019	
Number of out-patients classified by unit and gender.....	9
Number of hospital visits of out-patients classified monthly.....	10
Number of clinical services of out-patients classified monthly.....	11
Number of hospital visits of out-patients classified by age and gender.....	12
Percentage of hospital visits of out-patients classified by age	12
Number of clinical services of out-patients classified by age and gender.....	13
Percentage of clinical services of out-patients classified by age.....	13
Number of clinical services of out-patients classified by clinic codes including subclinic codes.....	14
Number of hospital visits of out-patients classified by health insurance.....	17
Percentage of hospital visits of out-patients classified by health insurance.....	17
Number of hospital visits of out-patients classified by regions and gender.....	18
Percentage of hospital visits of out-patients classified by regions.....	19
Number of hospital visits of out-patients residing in Bangkok classified by districts.....	20
Percentage of hospital visits of out-patients residing in Bangkok classified by districts.....	22
Number of hospital visits of out-patients residing in central Thailand classified by provinces.....	23
Percentage of hospital visits of out-patients residing in central Thailand classified by provinces.....	24
Number of hospital visits of out-patients residing in northern Thailand classified by provinces.....	25
Percentage of hospital visits of out-patients residing in northern Thailand classified by provinces.....	26
Number of hospital visits of out-patients residing in northeastern Thailand classified by provinces.....	27
Percentage of hospital visits of out-patients residing in northeastern Thailand classified by provinces.....	28
Number of hospital visits of out-patients residing in eastern Thailand classified by provinces.....	29
Percentage of hospital visits of out-patients residing in eastern Thailand classified by provinces.....	30
Number of hospital visits of out-patients residing in southern Thailand classified by provinces.....	31
Percentage of hospital visits of out-patients residing in southern Thailand classified by provinces.....	32
Number of hospital visits of out-patients classified by nationality.....	33

	Page
Top ten diagnoses of out-patients.....	34
Top ten external causes of out-patients.....	35
Health problems of out-patients.....	36

In-patients in 2019

Number of in-patients in each department classified monthly.....	39
Percentage of in-patients in each department.....	40
Number of in-patients classified by age and gender.....	41
Percentage of in-patients classified by age.....	41
Number of in-patients in each department classified by discharge types.....	42
Percentage of in-patients classified by discharge types.....	43
Number of in-patients in each department classified by length of stay.....	44
Percentage of in-patients classified by length of stay.....	45
Bed occupancy rate classified monthly.....	46
Number of births and deliveries of in-patients classified monthly.....	47
Number of death of in-patients in each department classified monthly.....	48
Percentage of death of in-patients in each department.....	49
Number of in-patients classified by health insurance.....	50
Percentage of in-patients classified by health insurance.....	50
Number of in-patients classified by nationality.....	51
Number of in-patients classified by regions and gender.....	52
Percentage of in-patients classified by regions.....	53
Top ten principal diagnoses of in-patients.....	54
Top ten external causes of in-patients.....	55
Top ten operations of in-patients.....	56
Top ten procedures of in-patients.....	57
Top ten causes of death of in-patients.....	58

Principal diagnoses, external causes, operations and procedures of in-patients

Department of Medicine.....	59
Department of Surgery.....	61
Department of Obstetrics and Gynecology.....	63
Department of Obstetrics and Gynecology : Obstetric unit (Newborn).....	65

	Page
Department of Pediatrics.....	67
Department of Otorhinolaryngology.....	69
Department of Ophthalmology.....	71
Department of Orthopaedic surgery.....	73
Department of Rehabilitation medicine.....	75
Department of Radiology.....	77
Department of Psychiatry.....	79
Department of Emergency Medicine.....	81
Department of Her Majesty Cardiac Center.....	83
Department of Pharmacology.....	85

Trends in 2010 - 2019

Trends in number of new visitor and revisitor of out-patients.....	89
Trends in number of hospital visits and clinical services of out-patients.....	90
Trend in number of in-patients.....	91
Trends in number of births and deaths of in-patients.....	92
Trends in number of physician registered nurse and bed.....	93

Other medical services in 2019

Statistics of Department of Anatomy

- Number of body donor classified by gender..... 97

Statistics of Department of Pediatrics

- Number of out-patients classified by division..... 98
- Hospital length of stay by top 10 diagnosis..... 100

Statistics of Department of Ophthalmology

- Number of in-patients classified by division..... 101

Statistics of Department of Psychiatry

- Number of out-patients classified by age and gender..... 102
- Number of out-patients classified by age and gender: General Psychiatry Unit..... 103
- Number of out-patients classified by patient's type: General Psychiatry Unit..... 104
- Top five diagnoses of out-patients: General Psychiatry Unit..... 105
- Top five diagnoses of new patients: General Psychiatry Unit..... 105
- Number of out-patients classified by subservice: General Psychiatry Unit..... 106

	Page
● Number of out-patients classified by patient's type: Division of Child and Adolescent Psychiatry.....	108
● Number of out-patients classified by subservice: Division of Child and Adolescent Psychiatry.....	109
● Top five diagnoses of out-patients: Division of Child and Adolescent Psychiatry.....	110
● Top five diagnoses of new patients: Division of Child and Adolescent Psychiatry.....	110
● Number of out-patients classified by gender: Psychiatric Rehabilitation and Community Unit.....	111
● Top five diagnoses: Psychiatric Rehabilitation and Community Unit.....	111
● Number of out-patients classified by patient's type: Psychiatric Rehabilitation and Community Unit.....	112
Statistics of Department of Microbiology	
● Number of Laboratory Test Services.....	113
● Number of services: Bacteriology Laboratory.....	114
● Number of services: Mycobacteriology & Mycology Laboratory.....	115
● Number of services: Virology Laboratory.....	116
● Number of services: Serology Laboratory.....	117
● Number of services: Molecular Microbiology Laboratory.....	119
● Number of services: Environmental Microbiology Laboratory.....	122
Statistics of Department of Biochemistry	
● Number of examination at Service Biochemistry Laboratory.....	124
Statistics of Department of Dermatology	
● Number of patient services classified by clinic.....	125
● Number of patient services classified by laboratory testing.....	126
● Number of patient services classified by operative.....	127
Statistics of Department of Forensic Medicine	
● Number of patients classified by indicators.....	128
● Number of patients classified by patient categories.....	129
Statistics of Department of Parasitology	
● Number of examining at the central laboratory classified by type of examining.....	130
● Number of examining at the special laboratory classified by type of examining.....	131
Statistics of Department of Pathology	
● Number of services classified by working type.....	132
Statistics of Department of Clinical Pathology	
● Number of laboratory examination and services provision classified by laboratory.....	135
● Number of examination at Central Laboratory: Chemical clinic.....	136
● Number of examination at Central Laboratory: Hemostasis system.....	140

	Page
● Number of examination at Central Laboratory: Hematology.....	141
● Number of examination at Central Laboratory: Microscopy.....	142
● Number of examination at Special Laboratory: Serology and Immunology.....	143
● Number of examination at Special Laboratory: Hemostasis system.....	146
● Number of examination at Special Laboratory: Infant Down Syndrome Screening Test.....	146
● Number of examination at Molecular Clinical Pathology Laboratory.....	147
● Number of examination at Point of Care (Glucose).....	147
Statistics of Department of Pharmacology	
● Number of laboratory services classified by services.....	148
Statistics of Department of Radiology	
● Number of patients classified by examination: Division of Diagnostic Radiology.....	150
● Number of patients: Out-patients unit, Division of Radiation Oncology.....	151
● Number of patients and Bed Occupancy Rate: In-patients unit, Division of Radiation Oncology.....	152
● Number of patients: Brachytherapy unit, Division of Radiation Oncology.....	153
● Number of patients: Health Education and Rehabilitaion, Division of Radiation Oncology.....	154
● Number of patients: Treatment Planning, Medical Physics unit, Division of Radiation Oncology.....	154
● Number of new patients: Radiology Center, Division of Radiation Oncology.....	155
● Number of patients: Radiotherapy unit, Division of Radiation Oncology.....	156
● Number of services in SPECT/CT Scan, Division of Nuclear Medicine.....	157
● Number of other services than scanning, Division of Nuclear Medicine.....	159
● Number of other services than scanning (2), Division of Nuclear Medicine.....	160
Statistics of Department of Immunology	
● Number of laboratory services provided classified by diagnosis group.....	162
Statistics of Department of Anesthesiology	
● Number of patients services classified by unit.....	165
● Number of Anesthesia services classified by patient's type.....	166
● Number of Anesthesia services classified by services unit.....	167
Statistics of Department of Transfusion Medicine	
● Number of services and working classified by working type.....	169
Statistics of Department of Preventive and Social Medicine	
● Number of treatment services classified by clinic.....	171
Statistics of Department of Rehabilitation Medicine	
● Number of out-patients classified by clinic.....	172

	Page
Statistics of Department of Surgery	
● Number of operation classified by operation: Division of Vascular Surgery.....	174
● Number of patients classified by patient's type: Division of Trauma Surgery.....	175
● Number of operation classified by patient's type: Division of Trauma Surgery.....	176
Statistics of Department of Orthopaedic Surgery	
● Number of out-patients in each month classified by unit.....	177
● Number of in-patients in each month classified by division.....	178
● Top five principal diagnoses of in-patients: Division of Adult Reconstructive Surgery.....	179
● Top five principal diagnoses of in-patients: Division of Spinal Surgery.....	179
● Top five principal diagnoses of in-patients: Division of Trauma.....	179
● Top five principal diagnoses of in-patients: Division of Head and Microsurgery.....	180
● Top five principal diagnoses of in-patients: Division of Tumor.....	180
● Top five principal diagnoses of in-patients: Division of Sports Medicine.....	180
● Top five principal diagnoses of in-patients: Division of Foot and ankle.....	181
● Top five principal diagnoses of in-patients: Division of Pediatric Orthopaedic Surgery.....	181
Statistics of Department of Physiology	
● Number of laboratory examination classified by patient's type: Division of Cardiovascular Physiology....	182
Statistics of Department of Obstetrics and Gynaecology	
● Number of patients in each month classified by patient's type.....	183
● Number of Birth and Neonate classified by gender.....	184
Statistics of Department of Otorhinolaryngology	
● Number of out-patients classified by clinic.....	185
● Number of patients at Special clinic classified by clinic.....	185
● Number of patients of Neuro-Otology clinic: Division of Otology, Neuro Otology & Audiology.....	186
● Number of patients of Audiology room: Division of Otology, Neuro Otology & Audiology.....	187
● Number of patients of Hearing aide room: Division of Otology, Neuro Otology & Audiology.....	187
● Top ten diseases of Speech and Language Clinic: Division of Laryngology Head & Neck Surgery.....	188
● The treatment ranking of Speech and Language clinic: Division of Laryngology Head & Neck Surgery..	188
● Number of patients of Allergy Clinic: Division of Rhinology & Allergy.....	189
● Number of in-patients classified by ward.....	190
● Number of in-patients classified by age and gender.....	190
● Number of in-patients classified by patient's type.....	191
● Number of operations in the operating theater on the 4 th floor of Syamindra Building.....	191

	Page
● Number of operations in the operating room classified by key performance index list.....	192
● Top twenty diseases in the operation on the 4 th floor of Syamindra Building.....	193
● Top twenty procedures in the operation on the 4 th floor of Syamindra Building.....	194
● Number of medical services in the operation on the 4 th floor of Syamindra Building.....	194
Statistics of Department of Medicine	
● Number of out-patients classified by clinic.....	195
Statistics of Sirindhorn School of Prosthetics and Orthotics	
● Number of patients at SSPO clinic.....	199
● Number of devices with produce for patients at SSPO clinic.....	200
Statistics of Center of Applied Thai Traditional Medicine	
● Number of patients diagnose of Thai traditional medicine.....	202
● Number of services of Siriraj Sappaya-sthana for health promotion.....	203
● Number of production and pharmaceutical distribution and herbal products.....	204
Statistics of Her Majesty Cardiac Center	
● Number of out-patients classified by unit of treatment service.....	205
● Number of out-patients of Cardiovascular Intervention classified by month.....	206
● Number of out-patients of Heart clinic classified by month.....	208
● Number of patients of Magnetic Resonance Imaging room classified by month.....	209
● Number of out-patients of Cardiovascular Special Investigation classified by month.....	213
● Number of in-patients classified by ward.....	215
● Number of in-patients of Post-Intermediate ward classified by service unit.....	216
● Number of in-patients of Intermediate Cardiac ward classified by month.....	217
Statistics of Pharmacy Division	
● Number of services classified by type of services.....	218
Statistics of Nutrition Department	
● Number of services patients classified by patient's type.....	219
● Number of academic performance classified by services.....	219
Statistics of Toxicology Division	
● Number of clinical toxicology laboratory tests classified by list.....	220
● Number of samples laboratory of Clinical Toxicology classified by list.....	221
● Number of the response to the question about drugs classified by genre questioner.....	230
● Number of the response to the question about drugs classified by questions.....	231

	Page
● Number of questions answered of toxicology classified by vocation consultant type.....	232
● Number of questions answered of toxicology classified by age of patients receiving toxic.....	232
● Number of questions answered of toxicology classified by type of toxins.....	233
Statistics of Siriraj Organ Transplant	
● Number of services classified by services category: Organ transplantation clinic.....	234
Statistics of Research Center for Nutritional Support	
● Number of consulted patients classified by patient's type.....	235
Statistics of Patient Transfer Division	
● Number of providing moving services classified by type of services.....	236
Statistics of Medical Record Division	
● Number of new patient registration: Out patient Medical Record Unit.....	237
● Number of data retrieving services regarding birth-death: Out patient Medical Record Unit.....	237
● Number of informed services regarding birth-death: Out patient Medical Record Unit.....	238
● Number of working classified by working category: Medical Coding Unit.....	238
● Number of services for the request of medical history through Office of the Director.....	239
● Number of medical statistics services: Medical Statistics Report Unit.....	240
● Number of electronic medical record services: Medical Statistics Report Unit.....	240
Statistics of Siriraj Primary Care Unit	
● Number of patients receiving services classified by diagnosis type.....	241

GENERAL DATA

IN 2019

Number of personnel in 2019, classified by position

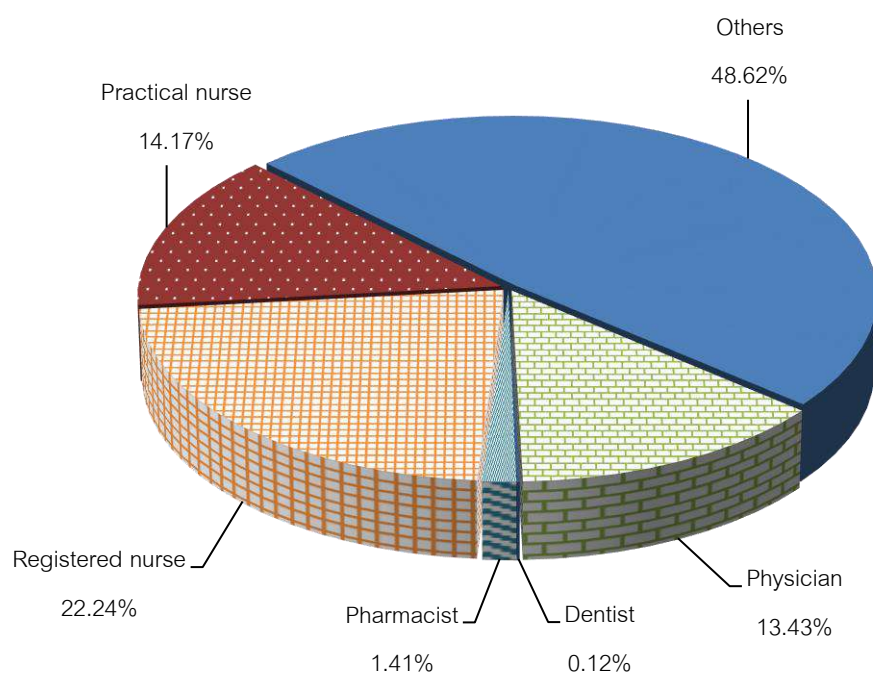
Position	Number
Physician	2,203
Dentist	20
Pharmacist	232
Registered nurse	3,647
Practical nurse	2,324
Others	7,974
Total	16,400

Note: Included Original affiliation and No affiliation

Data source: Human resource department

Date: 31 December 2019

Percentage of personnel in 2019, classified by position



Number of physicians in 2019, classified by field of specialty

Field of Specialty / Department	Physicians in position						Total
	Medical Instructor	Doctor	Specialist	Fellow	Fellowship	Resident	
Medicine	139	25	3	184	100	13	464
Surgery	101	13	-	154	10	12	290
Pediatrics	69	7	-	79	57	-	212
Radiology	59	19	-	96	29	-	203
Anesthesiology	65	15	-	77	10	3	170
Obstetrics & Gynecology	59	3	1	47	20	2	132
Orthopaedic surgery	40	2	-	47	-	13	102
Ophthalmology	27	1	-	30	-	11	69
Psychiatry	24	8	-	31	-	-	63
Otorhinolaryngology	23	3	-	31	-	3	60
Dermatology	21	2	-	28	-	4	55
Rehabilitation medicine	18	4	-	24	-	-	46
Pathology	21	2	-	15	-	-	38
Anatomy	9	28	-	-	-	-	37
Forensic medicine	9	5	-	18	-	-	32
Emergency medicine	9	2	-	16	-	-	27
Preventive and Social Medicine	15	8	-	-	2	-	25
Biochemistry	10	12	-	-	-	-	22
Physiology	13	9	-	-	-	-	22
Clinical Pathology	13	2	-	5	-	-	20
Pharmacology	13	7	-	-	-	-	20
Immunology	9	5	-	-	-	-	14
Microbiology	9	4	-	-	-	-	13
Transfusion medicine	6	1	-	-	-	-	7
Parasitology	4	2	-	-	-	-	6
Her Majesty Cardiac Center	4	2	-	-	-	-	6
Other	7	41	-	-	-	-	48
Total	796	232	4	882	228	61	2,203

Note: Included Original affiliation and No affiliation

Data source: Human resource department

Date: 31 December 2019

Number of beds in each department in 2019, classified by types of bed

Department	Types of bed					Total
	I.C.U	Private	Simple	Critical	Crib	
Medicine	40	170	283	8	-	501
Surgery	48	68	258	8	-	382
Obstetrics	-	79	156	-	110	345
Orthopaedic Surgery	-	173	114	-	-	287
Pediatrics	27	40	207	-	-	274
Ophthalmology	-	41	112	-	-	153
Her Majesty Cardiac Center	7	15	18	-	-	40
Radiology	-	-	33	-	-	33
Psychiatry	-	-	16	-	-	16
Other	-	16	-	-	-	16
Total	122	602	1,197	16	110	2,047

Data source: Office of the Director

Date: 7 February 2020

OUT-PATIENTS

IN 2019

Number of out-patients in 2019, classified by unit and gender

Unit	Gender		Total
	Male	Female	
Population	196,490	357,792	554,282
- New visitor	37,446	51,783	89,229
- Revisitor	159,044	306,009	465,053
Hospital visits	1,102,655	1,963,440	3,066,095
Clinical services	1,401,302	2,446,461	3,847,763

Data source: Siriraj information technology department

Date: 14 July 2020

Note :

Ø Population is the number of patients : Counted by person

- New visitor is the number of new patients who come to receive service in the hospital : Counted by person

- Revisitor is the number of old patients : Counted by person

Ø Hospital visits is the number of patients who come to receive service in the hospital : Counted by cases

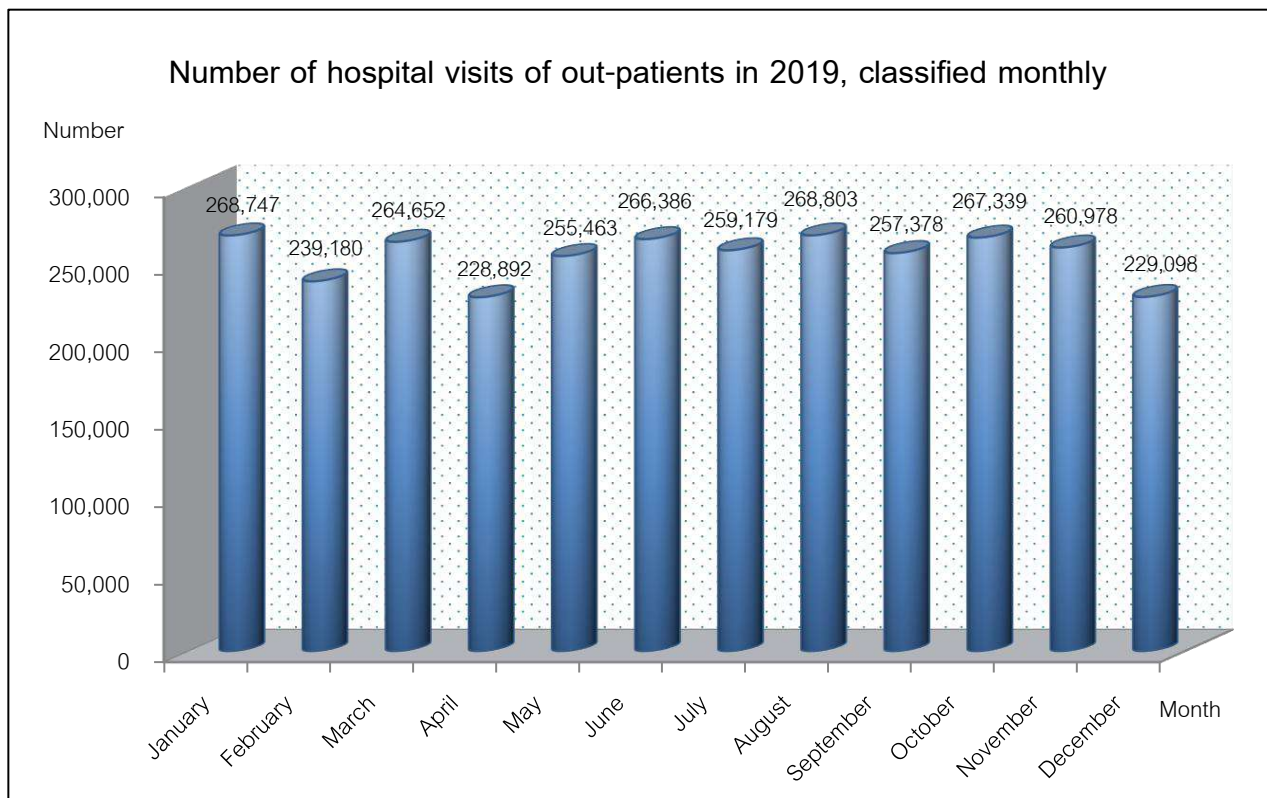
Ø Clinical services is the number of service the patients received : Counted by services

Number of hospital visits of out-patients in 2019, classified monthly

Month	Number of visit
January	268,747
February	239,180
March	264,652
April	228,892
May	255,463
June	266,386
July	259,179
August	268,803
September	257,378
October	267,339
November	260,978
December	229,098
Total	3,066,095

Data source: Siriraj information technology department

Date: 14 July 2020

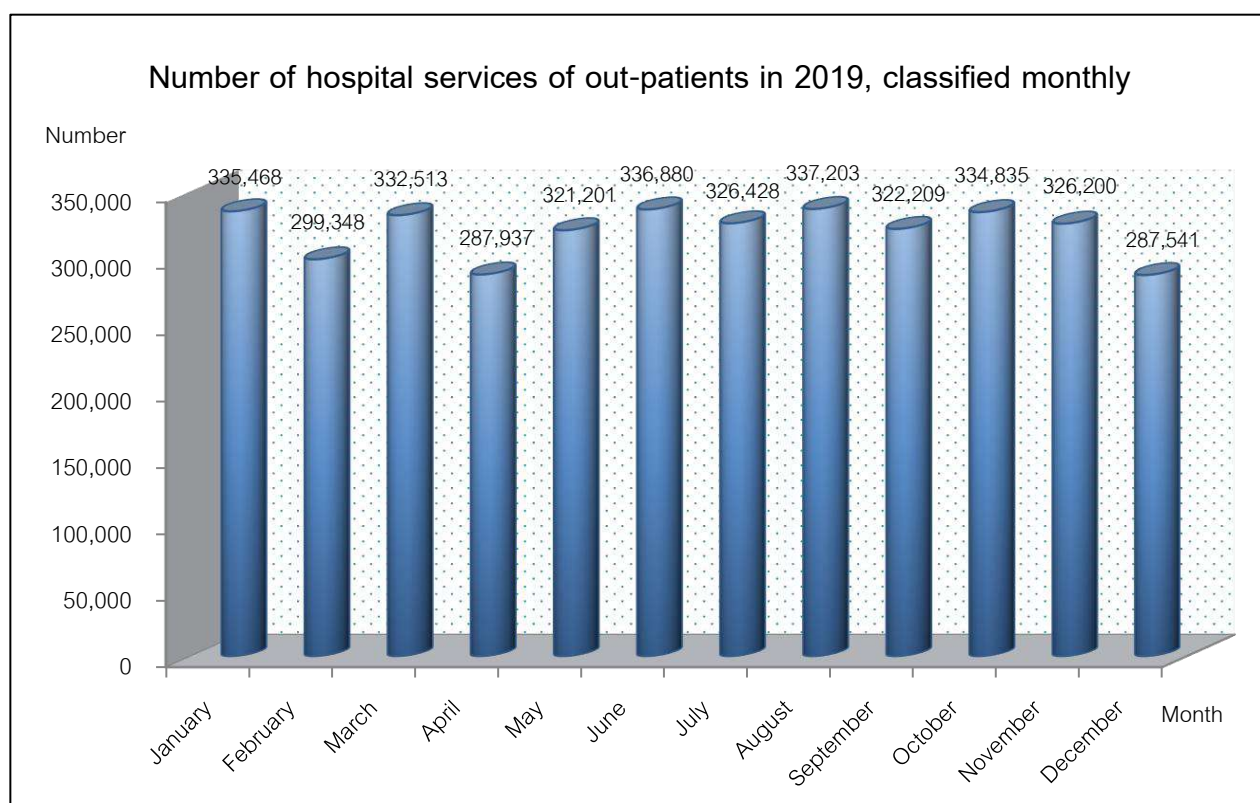


Number of clinical services of out-patients in 2019, classified monthly

Month	Number of services
January	335,468
February	299,348
March	332,513
April	287,937
May	321,201
June	336,880
July	326,428
August	337,203
September	322,209
October	334,835
November	326,200
December	287,541
Total	3,847,763

Data source: Siriraj information technology department

Date: 14 July 2020



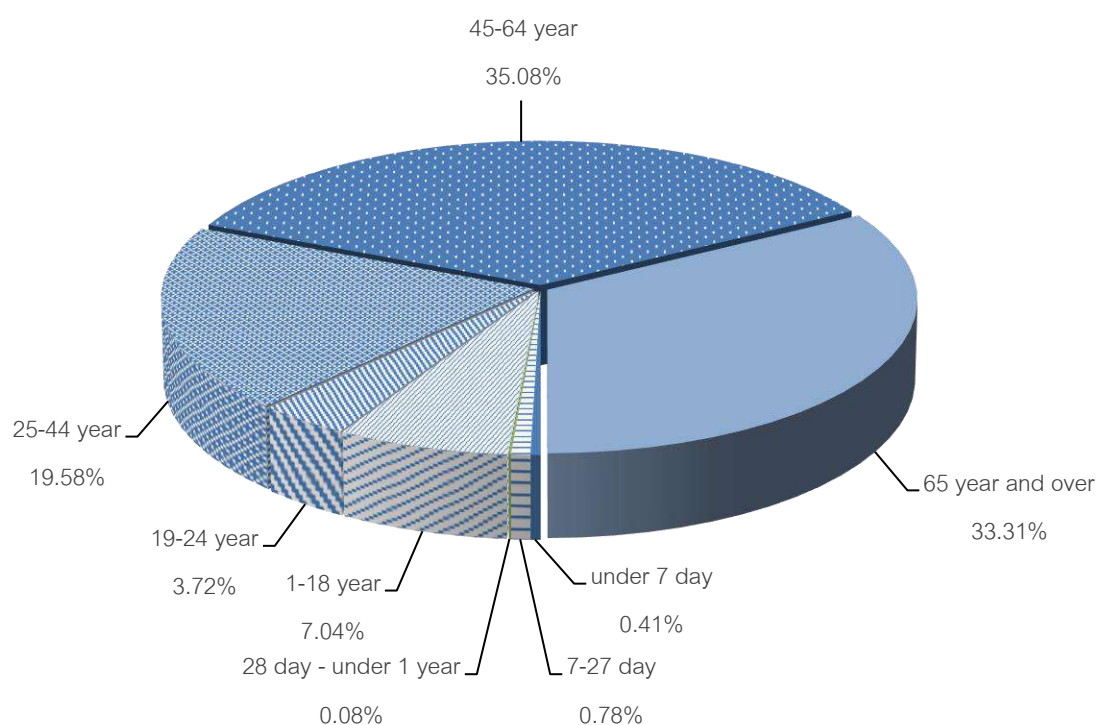
Number of hospital visits of out-patients in 2019, classified by age and gender

Age	Gender		Total
	Male	Female	
under 7 day	6,754	5,815	12,569
7-27 day	13,245	10,579	23,824
28 day - under 1 year	1,360	1,106	2,466
1-18 year	116,651	99,109	215,760
19-24 year	37,870	76,220	114,090
25-44 year	155,090	445,358	600,448
45-64 year	354,364	721,173	1,075,537
65 year and over	417,321	604,080	1,021,401
Total	1,102,655	1,963,440	3,066,095

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of hospital visits of out-patients in 2019, classified by age



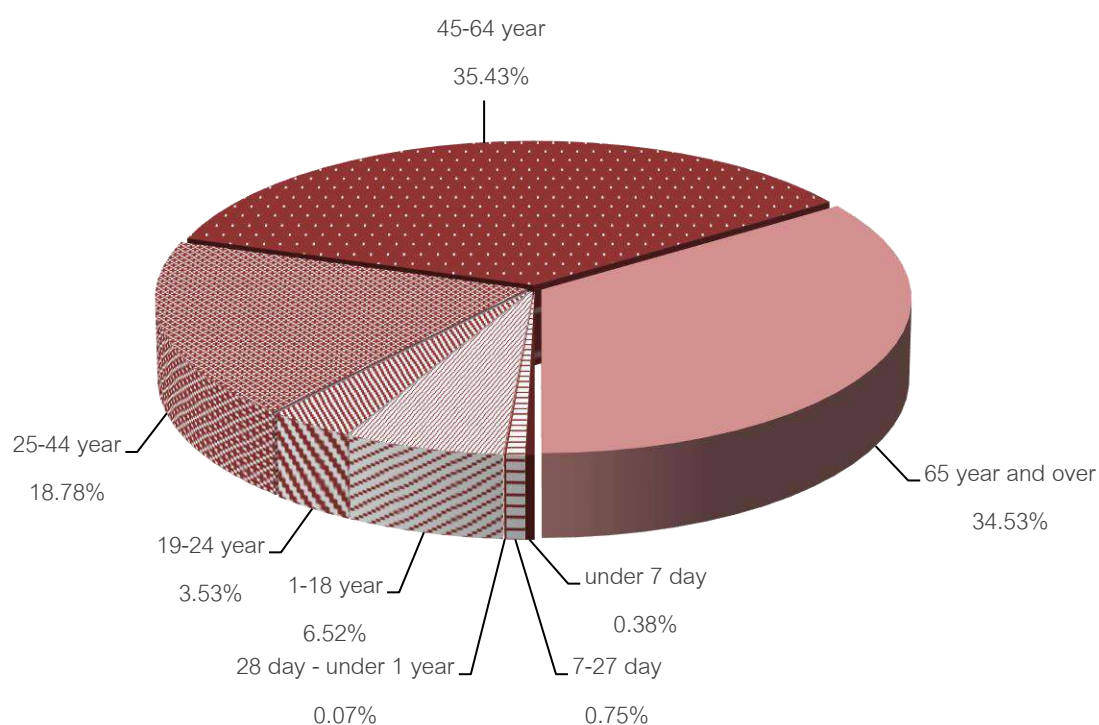
Number of clinical services of out-patients in 2019, classified by age and gender

Age	Gender		Total
	Male	Female	
under 7 day	7,772	6,714	14,486
7-27 day	16,102	12,942	29,044
28 day - under 1 year	1,562	1,290	2,852
1-18 year	135,547	115,440	250,987
19-24 year	45,727	89,968	135,695
25-44 year	191,375	531,422	722,797
45-64 year	459,398	903,707	1,363,105
65 year and over	543,819	784,978	1,328,797
Total	1,401,302	2,446,461	3,847,763

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of clinical services of out-patients in 2019, classified by age



Number of clinical services of out-patients in 2019, classified by clinic codes including subclinic codes

Clinic	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Office hours													
Medicine	39,432	34,086	37,329	34,999	38,554	34,078	37,616	38,259	36,794	40,220	37,439	34,120	442,926
Surgery	24,557	22,091	24,357	21,524	24,372	22,505	23,512	24,718	23,592	24,851	24,683	21,274	282,036
Ophthalmology	12,730	12,104	11,762	10,093	13,178	11,886	11,403	11,305	11,603	12,768	10,091	11,648	140,571
Orthopaedic Surgery	11,955	10,741	11,807	11,336	12,197	11,346	11,931	12,505	11,440	13,281	12,302	11,146	141,987
Radiology	12,215	10,349	11,372	10,530	11,318	10,634	11,584	11,979	12,159	13,255	12,565	11,242	139,202
Rehabilitation Medicine	9,119	8,198	9,665	8,879	10,366	9,449	10,185	10,030	9,953	9,468	8,986	8,004	112,302
Pediatrics	9,128	7,709	8,640	8,213	8,613	8,336	8,998	9,324	9,091	10,154	8,466	7,597	104,269
Gynecology	8,934	7,950	7,878	8,062	8,677	7,863	8,726	8,752	8,456	8,406	8,159	7,521	99,384
Otorhinolaryngology	7,953	7,270	7,910	7,284	7,655	7,795	7,386	7,654	7,911	7,766	7,594	6,964	91,142
Preventive and Social Medicine	5,426	4,858	5,403	6,308	9,055	19,843	11,369	7,543	5,409	6,086	6,097	4,502	91,899
Dermatology	7,170	6,430	7,169	6,793	7,547	7,014	7,855	7,485	7,525	8,067	7,296	6,892	87,243
Obstetrics	5,600	5,008	5,048	4,944	5,573	4,754	5,307	5,399	5,097	5,239	5,031	4,362	61,362
Psychiatry	5,113	4,125	4,906	4,814	4,590	5,011	4,141	5,204	4,878	5,652	5,081	4,639	58,154
Social security	4,549	4,067	4,380	3,791	4,205	4,068	4,387	4,339	4,541	4,613	4,261	4,250	51,451
Applied Thai Traditional Medicine	3,037	2,994	3,563	2,526	2,846	3,700	3,315	3,779	3,860	3,344	3,742	2,834	39,540
Her Majesty Cardiac Center	2,575	2,221	2,323	2,321	2,333	2,149	2,351	2,525	2,338	2,611	2,476	2,128	28,351
Dental	2,097	1,773	2,051	1,817	2,185	1,967	2,024	2,169	2,155	2,249	2,136	1,690	24,313
Anesthesiology	1,075	946	1,091	964	1,018	1,088	1,144	1,205	1,201	1,114	1,096	1,017	12,959
Other	386	356	425	281	440	481	375	913	327	379	423	422	5,208
Total in office hours	173,051	153,276	167,079	155,479	174,722	173,967	173,609	175,087	168,330	179,523	167,924	152,252	2,014,299

Number of clinical services of out-patients in 2019, classified by clinic codes including subclinic codes (cont.)

Clinic	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
24 hours													
Trauma	5,878	5,099	4,988	4,872	5,002	4,855	5,391	5,304	5,104	5,361	4,863	4,877	61,594
Emergency Room (clinic 1201)	1,738	1,480	1,533	1,482	1,553	1,551	1,653	1,644	1,750	1,627	1,513	1,574	19,098
Observation Room (clinic 12)	17	15	21	12	17	5	9	1	35	9	4	5	150
Out of Services Room (clinic 14, 1401, 1402)	8,615	7,677	8,005	7,483	7,670	7,333	7,814	7,873	8,026	7,640	6,810	6,994	91,940
Lab Clinic (clinic 90)	42,631	37,221	41,825	39,104	43,865	38,686	40,202	40,769	39,631	42,766	40,438	36,816	483,954
Refill (clinic 93)	918	873	938	967	849	826	892	948	943	1,053	972	1,030	11,209
Unclassified (clinic 91)	1,511	1,298	1,225	1,320	1,301	1,221	1,282	1,353	1,343	1,507	1,303	1,379	16,043
Total in 24 hours	61,308	53,663	58,535	55,240	60,257	54,477	57,243	57,892	56,832	59,963	55,903	52,675	683,988

Number of clinical services of out-patients in 2019, classified by clinic codes including subclinic codes (cont.)

Clinic	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Special clinic (Out of office hours)													
Medicine	27,948	25,701	29,391	21,433	24,029	29,678	25,856	28,554	26,612	26,832	28,445	23,199	317,678
Surgery	8,482	7,476	8,865	6,708	7,416	8,888	7,941	8,838	7,658	8,343	8,636	6,787	96,038
Obstetrics	7,936	7,027	7,946	6,511	6,871	8,200	7,425	8,233	7,677	6,990	7,763	6,181	88,760
Radiology	7,386	6,507	7,781	5,645	6,632	7,901	7,076	7,405	6,941	6,819	7,208	6,151	83,452
Orthopaedic Surgery	6,804	6,508	7,551	4,993	5,325	7,644	6,716	7,319	6,783	6,352	7,184	5,785	78,964
Ophthalmology	5,257	5,231	5,830	4,305	4,642	5,965	5,560	5,821	5,023	5,181	5,666	4,370	62,851
Bank of Thailand (BOT)	3,847	3,154	3,151	3,015	3,346	3,031	3,307	3,294	3,403	3,402	3,238	3,219	39,407
Dermatology	3,901	3,191	3,698	2,728	2,874	3,771	3,492	3,726	3,505	3,273	3,669	2,733	40,561
Pediatrics	3,601	3,160	3,648	2,915	3,412	4,062	3,680	3,805	3,627	3,427	3,630	2,695	41,662
Preventive and Social Medicine	2,924	2,682	3,275	2,197	3,065	3,348	3,025	3,186	2,825	2,971	3,017	2,553	35,068
Otorhinolaryngology	2,682	2,412	2,445	1,929	2,002	2,527	2,354	2,427	2,453	2,280	2,254	2,028	27,793
Rehabilitation Medicine	2,182	1,962	2,396	1,470	1,557	2,399	1,988	1,978	2,263	1,955	2,319	1,724	24,193
Psychiatry	1,510	1,289	1,657	1,283	1,362	1,639	1,335	1,713	1,548	1,646	1,786	1,352	18,120
Gynecology	1,271	1,680	1,746	1,348	1,628	1,618	1,992	1,710	1,660	1,646	1,720	1,157	19,176
Her Majesty Cardiac Center	1,174	1,528	1,886	1,292	1,415	1,983	1,519	1,769	1,680	1,731	1,705	1,433	19,115
Dental	1,225	1,008	1,180	868	963	1,175	1,164	1,280	1,151	1,154	1,142	950	13,260
Lab Clinic (clinic 4790)	12,926	11,845	14,395	8,538	9,640	14,565	11,093	13,111	12,178	11,306	12,955	10,250	142,802
Unclassified (clinic 4791)	53	48	58	40	43	42	53	55	60	41	36	47	576
Total in Special clinic													
	101,109	92,409	106,899	77,218	86,222	108,436	95,576	104,224	97,047	95,349	102,373	82,614	1,149,476
Grand Total													
	335,468	299,348	332,513	287,937	321,201	336,880	326,428	337,203	322,209	334,835	326,200	287,541	3,847,763

Data source: Siriraj information technology department

Date: 14 July 2020

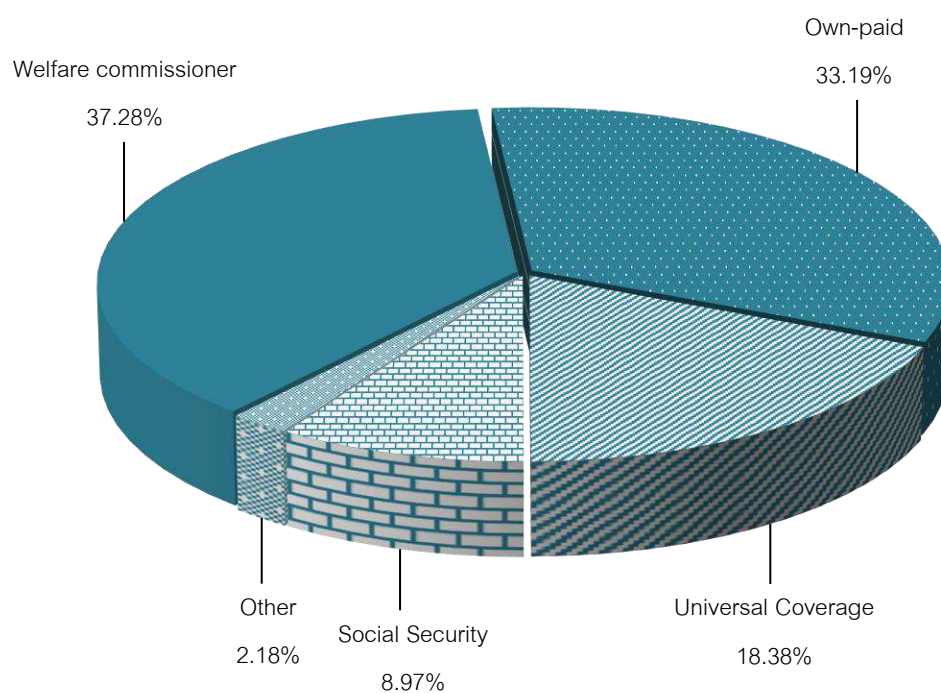
Number of hospital visits of out-patients in 2019, classified by Health insurance

Health insurance	Number of visit
Welfare commissioner	1,143,022
Own-paid	1,017,660
Universal Coverage	563,464
Social Security	275,095
Other	66,854
Total	3,066,095

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of hospital visits of out-patients in 2019, classified by Health insurance



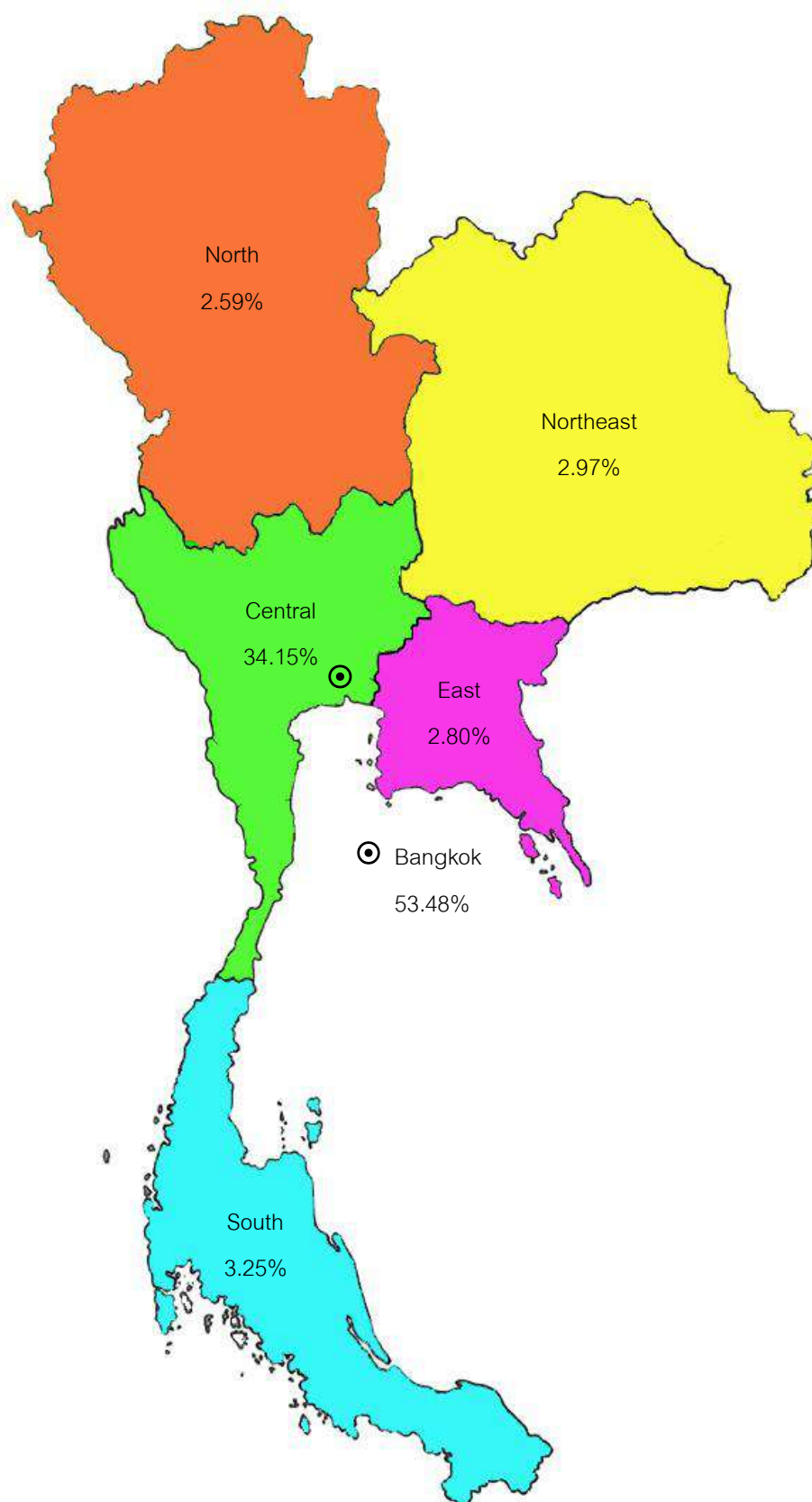
Number of hospital visits of out-patients in 2019, classified by regions and gender

Regions	Gender		Total
	Male	Female	
Bangkok	586,100	1,053,755	1,639,855
Central	373,305	673,852	1,047,157
South	38,972	60,570	99,542
Northeast	32,871	58,326	91,197
East	32,670	53,059	85,729
North	29,807	49,690	79,497
Unknow	8,930	14,188	23,118
Total	1,102,655	1,963,440	3,066,095

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of hospital visits of out-patients in 2019, classified by regions



Number of hospital visits of out-patients residing in Bangkok in 2019

Classified by districts

Districts	Number			Percentage (%)		
	Male	Female	Total	Male	Female	Total
Bang Bon	13,038	23,758	36,796	0.80	1.45	2.24
Bang Kapi	4,922	8,630	13,552	0.30	0.53	0.83
Bang Khae	42,306	76,651	118,957	2.58	4.67	7.25
Bang Khen	5,574	9,672	15,246	0.34	0.59	0.93
Bang Kho Laem	4,515	8,063	12,578	0.28	0.49	0.77
Bang Khun Thian	15,022	27,273	42,295	0.92	1.66	2.58
Bang Na	3,841	5,632	9,473	0.23	0.34	0.58
Bang Phlat	35,001	64,889	99,890	2.13	3.96	6.09
Bang Rak	2,803	3,911	6,714	0.17	0.24	0.41
Bang Sue	9,170	18,301	27,471	0.56	1.12	1.68
Bangkok Noi	86,804	158,197	245,001	5.29	9.65	14.94
Bangkok Yai	34,342	62,050	96,392	2.09	3.78	5.88
Bueng Kum	4,676	7,361	12,037	0.29	0.45	0.73
Chatuchak	10,418	17,041	27,459	0.64	1.04	1.67
Chom Thong	19,678	37,928	57,606	1.20	2.31	3.51
Din Daeng	3,363	6,747	10,110	0.21	0.41	0.62
Don Mueang	3,415	5,513	8,928	0.21	0.34	0.54
Dusit	5,511	9,923	15,434	0.34	0.61	0.94
Huai Khwang	3,226	6,561	9,787	0.20	0.40	0.60
Khan Na Yao	3,434	5,745	9,179	0.21	0.35	0.56
Khlong Sam Wa	1,034	1,887	2,921	0.06	0.12	0.18
Khlong San	13,773	25,707	39,480	0.84	1.57	2.41
Khlong Toei	3,030	4,336	7,366	0.18	0.26	0.45
Lak Si	3,439	6,177	9,616	0.21	0.38	0.59
Lat Krabang	2,268	4,109	6,377	0.14	0.25	0.39
Lat Phrao	5,190	8,261	13,451	0.32	0.50	0.82
Min Buri	2,332	3,956	6,288	0.14	0.24	0.38
Nong Chok	1,023	1,761	2,784	0.06	0.11	0.17

Number of hospital visits of out-patients residing in Bangkok in 2019

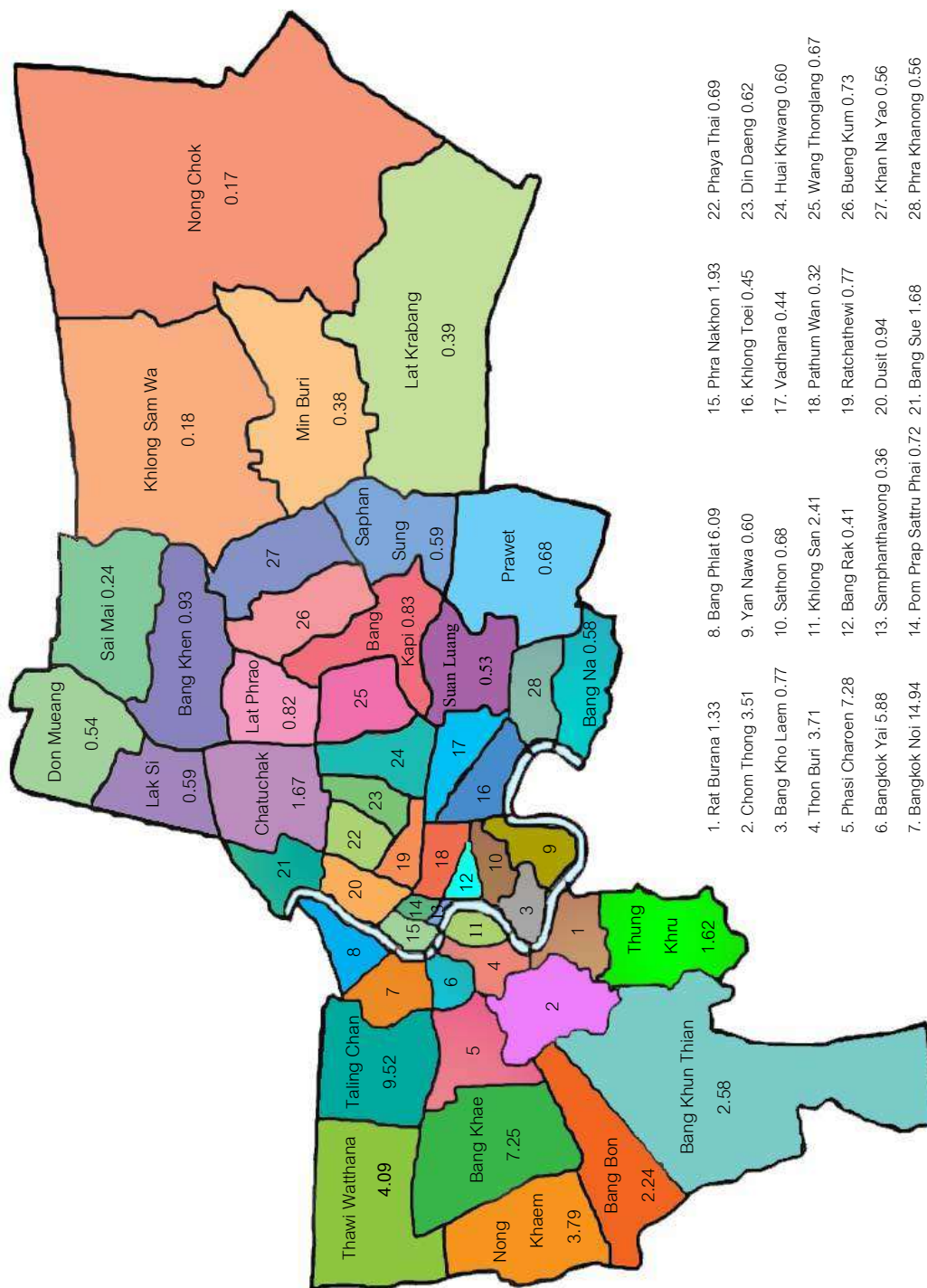
Classified by districts (cont.)

Districts	Number			Percentage (%)		
	Male	Female	Total	Male	Female	Total
Nong Khaem	21,359	40,830	62,189	1.30	2.49	3.79
Pathum Wan	2,256	2,934	5,190	0.14	0.18	0.32
Phasi Charoen	41,101	78,289	119,390	2.51	4.77	7.28
Phaya Thai	3,822	7,443	11,265	0.23	0.45	0.69
Phra Khanong	3,146	5,980	9,126	0.19	0.36	0.56
Phra Nakhon	11,932	19,709	31,641	0.73	1.20	1.93
Pom Prap Sattru Phai	4,408	7,396	11,804	0.27	0.45	0.72
Prawet	4,313	6,909	11,222	0.26	0.42	0.68
Rat Burana	7,324	14,527	21,851	0.45	0.89	1.33
Ratchathewi	4,718	7,872	12,590	0.29	0.48	0.77
Sai Mai	1,283	2,610	3,893	0.08	0.16	0.24
Samphanthawong	2,282	3,569	5,851	0.14	0.22	0.36
Saphan Sung	3,522	6,225	9,747	0.21	0.38	0.59
Sathon	3,949	7,187	11,136	0.24	0.44	0.68
Suan Luang	3,459	5,314	8,773	0.21	0.32	0.53
Taling Chan	57,624	98,425	156,049	3.51	6.00	9.52
Thawi Watthana	24,077	43,000	67,077	1.47	2.62	4.09
Thon Buri	22,023	38,849	60,872	1.34	2.37	3.71
Thung Khru	9,349	17,204	26,553	0.57	1.05	1.62
Vadhana	2,616	4,552	7,168	0.16	0.28	0.44
Wang Thonglang	3,891	7,016	10,907	0.24	0.43	0.67
Yan Nawa	3,558	6,246	9,804	0.22	0.38	0.60
Unclassified	940	1,629	2,569	0.06	0.10	0.16
Total	586,100	1,053,755	1,639,855	35.74	64.26	100.00

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of hospital visits of out-patients residing in Bangkok in 2019, classified by districts



Number of hospital visits of out-patients residing in central Thailand in 2019

Classified by provinces

Provinces	Number			Percentage (%)		
	Male	Female	Total	Male	Female	Total
Ang Thong	2,893	4,368	7,261	0.28	0.42	0.69
Chai Nat	3,726	6,484	10,210	0.36	0.62	0.98
Kanchanaburi	18,296	30,658	48,954	1.75	2.93	4.67
Lop Buri	4,208	7,440	11,648	0.40	0.71	1.11
Nakhon Nayok	1,535	2,031	3,566	0.15	0.19	0.34
Nakhon Pathom	58,299	105,650	163,949	5.57	10.09	15.66
Nonthaburi	127,739	246,398	374,137	12.20	23.53	35.73
Pathum Thani	15,486	26,827	42,313	1.48	2.56	4.04
Phetchaburi	13,284	22,972	36,256	1.27	2.19	3.46
Phra Nakhon Si Ayutthaya	7,484	12,126	19,610	0.71	1.16	1.87
Prachuap Khiri Khan	9,810	16,143	25,953	0.94	1.54	2.48
Ratchaburi	23,027	36,516	59,543	2.20	3.49	5.69
Samut Prakan	26,246	47,800	74,046	2.51	4.56	7.07
Samut Sakhon	25,776	46,902	72,678	2.46	4.48	6.94
Samut Songkhram	8,764	14,689	23,453	0.84	1.40	2.24
Saraburi	3,509	6,009	9,518	0.34	0.57	0.91
Sing Buri	2,815	5,256	8,071	0.27	0.50	0.77
Suphan Buri	20,408	35,583	55,991	1.95	3.40	5.35
Total	373,305	673,852	1,047,157	35.65	64.35	100.00

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of hospital visits of out-patients residing in central Thailand in 2019
Classified by provinces



Number of hospital visits of out-patients residing in northern Thailand in 2019

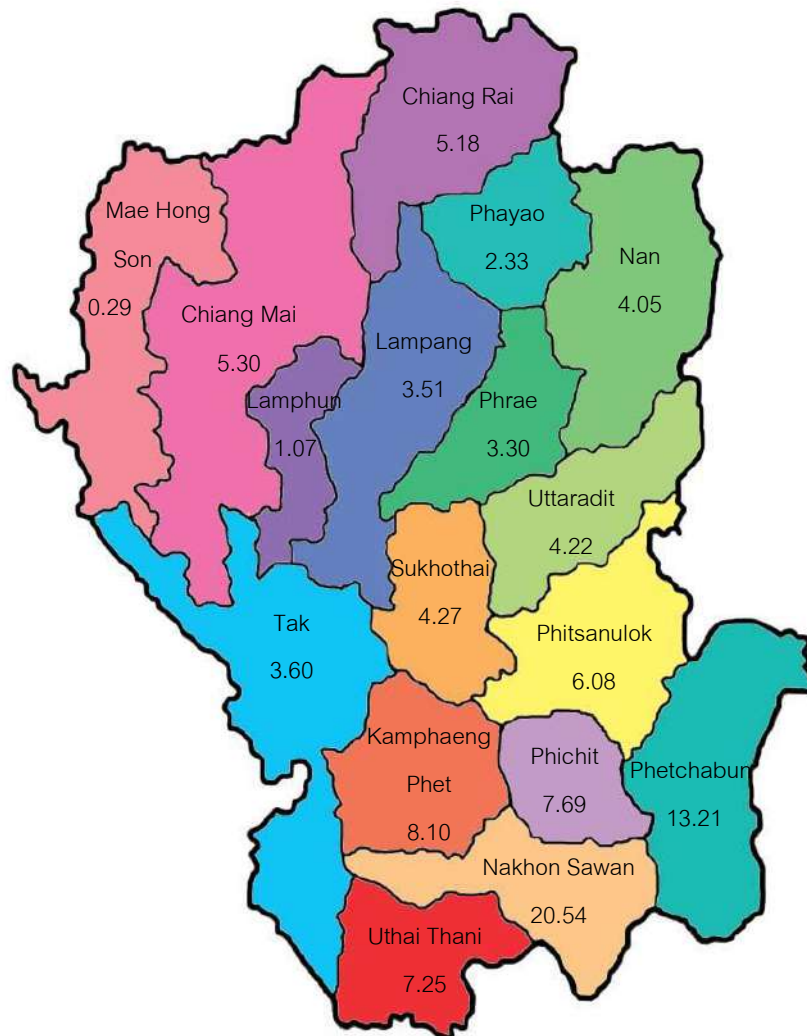
Classified by provinces

Provinces	Number			Percentage (%)		
	Male	Female	Total	Male	Female	Total
Chiang Mai	1,783	2,431	4,214	2.24	3.06	5.30
Chiang Rai	1,542	2,576	4,118	1.94	3.24	5.18
Kamphaeng Phet	2,336	4,106	6,442	2.94	5.16	8.10
Lampang	778	2,011	2,789	0.98	2.53	3.51
Lamphun	204	646	850	0.26	0.81	1.07
Mae Hong Son	95	134	229	0.12	0.17	0.29
Nakhon Sawan	6,379	9,952	16,331	8.02	12.52	20.54
Nan	1,065	2,155	3,220	1.34	2.71	4.05
Phayao	666	1,190	1,856	0.84	1.50	2.33
Phetchabun	3,871	6,630	10,501	4.87	8.34	13.21
Phichit	2,443	3,672	6,115	3.07	4.62	7.69
Phitsanulok	1,816	3,017	4,833	2.28	3.80	6.08
Phrae	818	1,803	2,621	1.03	2.27	3.30
Sukhothai	1,457	1,940	3,397	1.83	2.44	4.27
Tak	1,222	1,641	2,863	1.54	2.06	3.60
Uthai Thani	2,115	3,650	5,765	2.66	4.59	7.25
Uttaradit	1,217	2,136	3,353	1.53	2.69	4.22
Total	29,807	49,690	79,497	37.49	62.51	100.00

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of hospital visits of out-patients residing in northern Thailand in 2019
Classified by provinces



Number of hospital visits of out-patients residing in northeastern Thailand in 2019
Classified by provinces

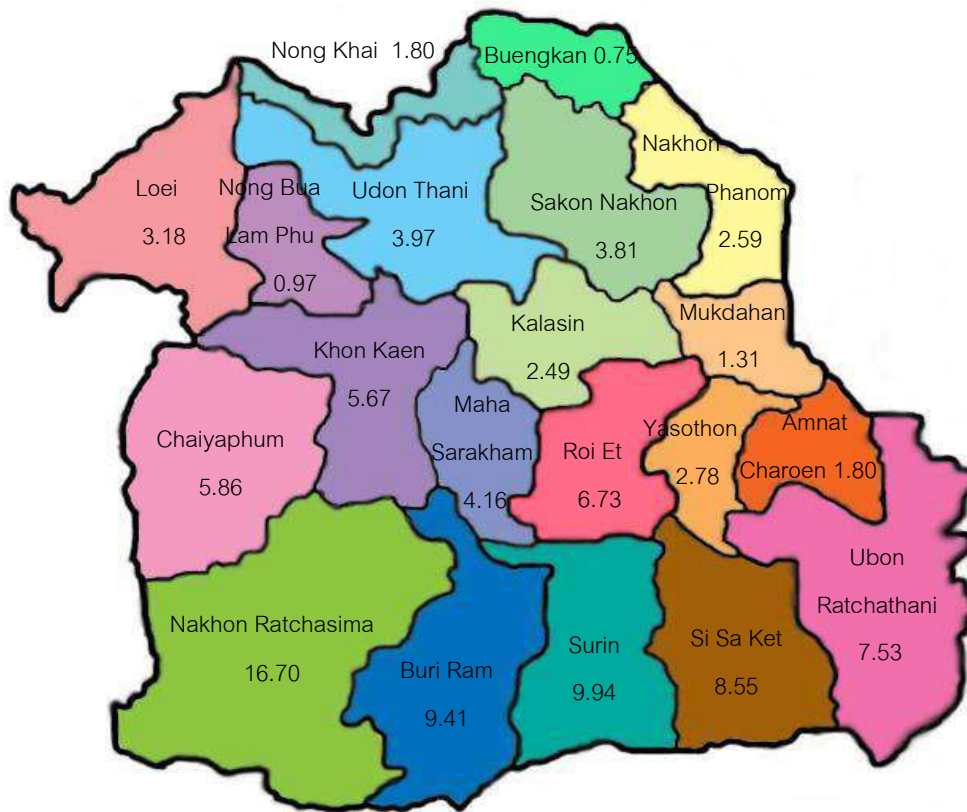
Provinces	Number			Percentage (%)		
	Male	Female	Total	Male	Female	Total
Amnat Charoen	557	1,085	1,642	0.61	1.19	1.80
Buengkan	249	432	681	0.27	0.47	0.75
Buri Ram	2,927	5,651	8,578	3.21	6.20	9.41
Chaiyaphum	1,914	3,430	5,344	2.10	3.76	5.86
Kalasin	741	1,533	2,274	0.81	1.68	2.49
Khon Kaen	1,777	3,397	5,174	1.95	3.72	5.67
Loei	1,092	1,812	2,904	1.20	1.99	3.18
Maha Sarakham	1,148	2,647	3,795	1.26	2.90	4.16
Mukdahan	384	814	1,198	0.42	0.89	1.31
Nakhon Phanom	994	1,369	2,363	1.09	1.50	2.59
Nakhon Ratchasima	6,077	9,150	15,227	6.66	10.03	16.70
Nong Bua Lam Phu	365	521	886	0.40	0.57	0.97
Nong Khai	626	1,016	1,642	0.69	1.11	1.80
Roi Et	2,004	4,132	6,136	2.20	4.53	6.73
Sakon Nakhon	1,369	2,107	3,476	1.50	2.31	3.81
Si Sa Ket	2,766	5,030	7,796	3.03	5.52	8.55
Surin	3,325	5,740	9,065	3.65	6.29	9.94
Ubon Ratchathani	2,266	4,601	6,867	2.48	5.05	7.53
Udon Thani	1,400	2,218	3,618	1.54	2.43	3.97
Yasothon	890	1,641	2,531	0.98	1.80	2.78
Total	32,871	58,326	91,197	36.04	63.96	100.00

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of hospital visits of out-patients residing in northeastern Thailand in 2019

Classified by provinces



Number of hospital visits of out-patients residing in eastern Thailand in 2019

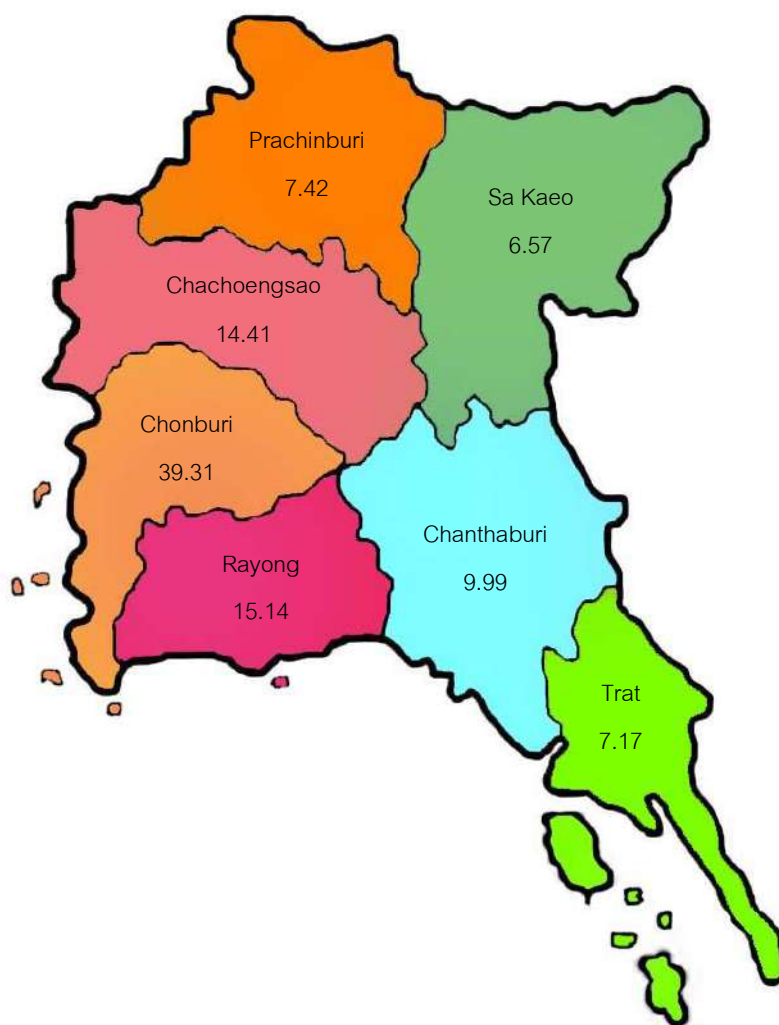
Classified by provinces

Provinces	Number			Percentage (%)		
	Male	Female	Total	Male	Female	Total
Chachoengsao	4,627	7,725	12,352	5.40	9.01	14.41
Chanthaburi	3,453	5,112	8,565	4.03	5.96	9.99
Chon Buri	12,466	21,234	33,700	14.54	24.77	39.31
Prachin Buri	2,595	3,764	6,359	3.03	4.39	7.42
Rayong	4,983	7,995	12,978	5.81	9.33	15.14
Sa Kaeo	2,103	3,526	5,629	2.45	4.11	6.57
Trat	2,443	3,703	6,146	2.85	4.32	7.17
Total	32,670	53,059	85,729	38.11	61.89	100.00

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of hospital visits of out-patients residing in eastern Thailand in 2019
Classified by provinces



Number of hospital visits of out-patients residing in southern Thailand in 2019

Classified by provinces

Provinces	Number			Percentage		
	Male	Female	Total	Male	Female	Total
Chumphon	11,437	18,402	29,839	11.49	18.49	29.98
Krabi	1,557	2,168	3,725	1.56	2.18	3.74
Nakhon Si Thammarat	6,457	9,951	16,408	6.49	10.00	16.48
Narathiwat	570	862	1,432	0.57	0.87	1.44
Pattani	412	456	868	0.41	0.46	0.87
Phangnga	1,278	1,873	3,151	1.28	1.88	3.17
Phatthalung	993	1,451	2,444	1.00	1.46	2.46
Phuket	1,979	3,197	5,176	1.99	3.21	5.20
Ranong	2,366	3,888	6,254	2.38	3.91	6.28
Satun	287	456	743	0.29	0.46	0.75
Songkhla	1,944	3,084	5,028	1.95	3.10	5.05
Surat Thani	7,127	11,175	18,302	7.16	11.23	18.39
Trang	2,143	2,863	5,006	2.15	2.88	5.03
Yala	422	744	1,166	0.42	0.75	1.17
Total	38,972	60,570	99,542	39.15	60.85	100.00

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of hospital visits of out-patients residing in southern Thailand in 2019
Classified by provinces



Number of hospital visits of out-patients in 2019, classified by nationality

Nationality	Number of visit	Percentage (%)
Thai	3,004,609	97.99
Cambodian	16,585	0.54
Burmese	9,473	0.31
Chinese	8,678	0.28
Laotian	5,160	0.17
Indian	1,528	0.05
American	816	0.03
Filipino	522	0.02
Pakistani	521	0.02
British	475	0.02
Bangladesh	387	0.01
Vietnamese	356	0.01
German	316	0.01
Japanese	247	0.01
French	180	0.01
Australian	169	0.01
Other	7,613	0.25
Unknow	8,460	0.28
Total	3,066,095	100.00

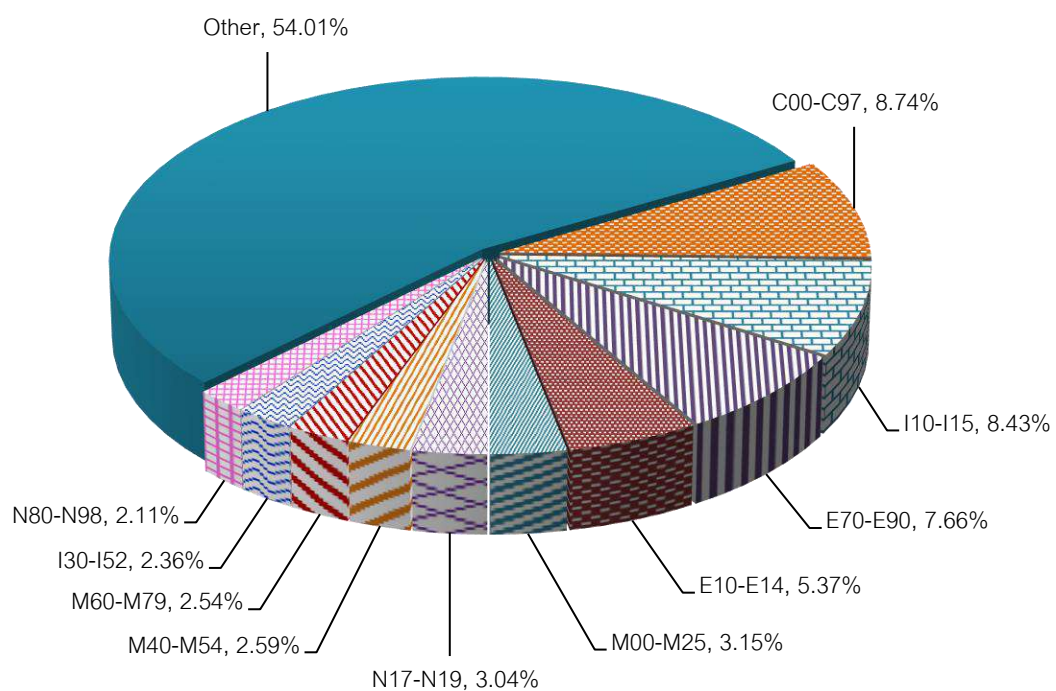
Data source: Siriraj information technology department

Date: 14 July 2020

Top ten diagnoses of out-patients in 2019

ICD-10	Description	Number
C00-C97	Malignant neoplasms	442,919
I10-I15	Hypertensive diseases	427,136
E70-E90	Metabolic disorders	388,179
E10-E14	Diabetes mellitus	272,245
M00-M25	Arthropathies	159,492
N17-N19	Renal failure	154,143
M40-M54	Dorsopathies	131,249
M60-M79	Soft tissue disorders	128,848
I30-I52	Other forms of heart disease	119,523
N80-N98	Noninflammatory disorders of female genital tract	106,777

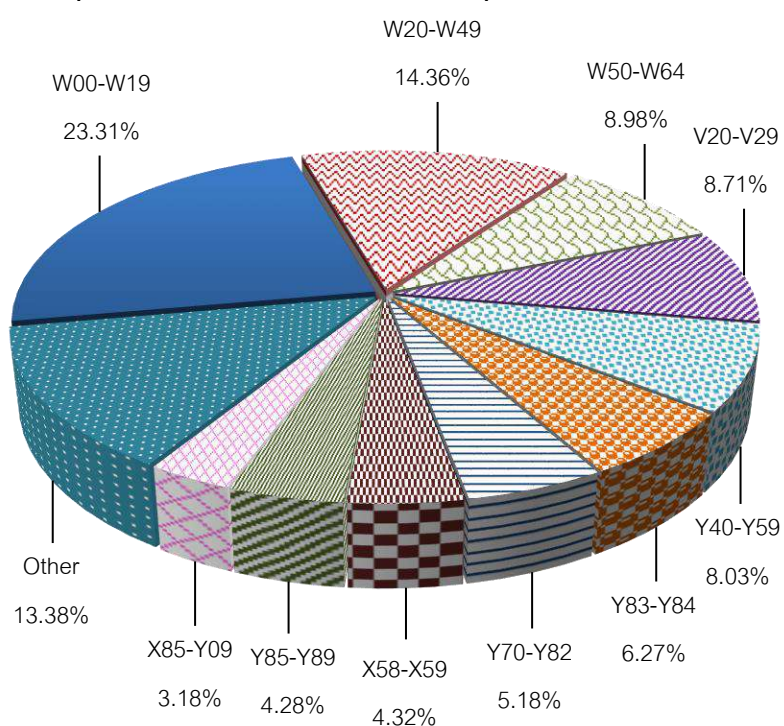
Top ten diagnoses of out-patients in 2019



Top ten external causes of out-patients in 2019

ICD-10	Description	Number
W00-W19	Falls	11,839
W20-W49	Exposure to inanimate mechanical forces	7,295
W50-W64	Exposure to animate mechanical forces	4,561
V20-V29	Motorcycle rider injured in transport accident	4,425
Y40-Y59	Drugs, medicaments and biological substances causing adverse effects in therapeutic use	4,080
Y83-Y84	Surgical and other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	3,187
Y70-Y82	Medical devices associated with adverse incidents in diagnostic and therapeutic use	2,631
X58-X59	Accidental exposure to other and unspecified factors	2,192
Y85-Y89	Sequelae of external causes of morbidity and mortality	2,173
X85-Y09	Assault	1,615

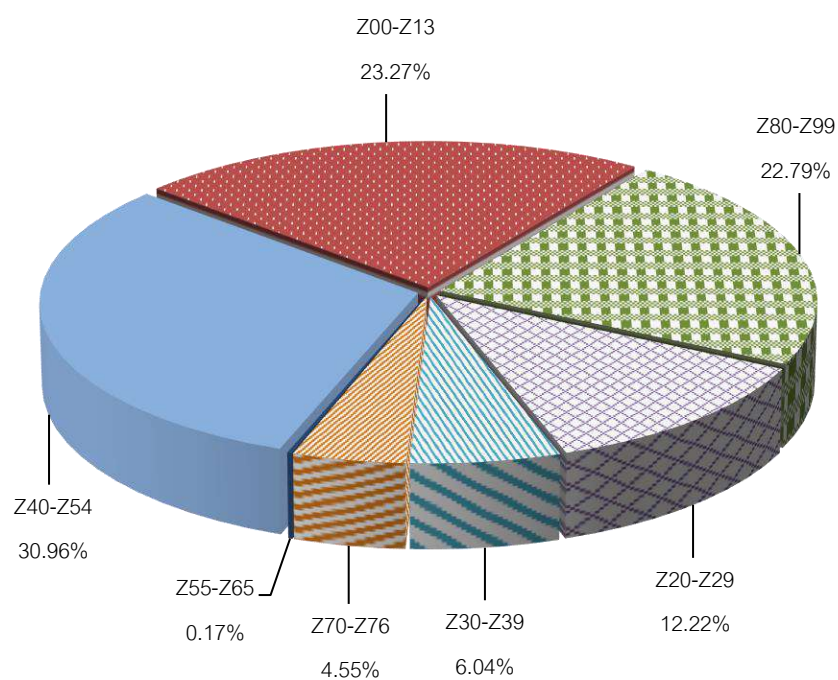
Top ten external causes of out-patients in 2019



Health problems of out-patients in 2019

ICD-10	Description	Number
Z40-Z54	Persons encountering health services for specific procedures and health care	357,132
Z00-Z13	Persons encountering health services for examination and investigation	268,470
Z80-Z99	Persons with potential health hazards related to family and personal history and certain conditions influencing health status	262,885
Z20-Z29	Persons with potential health hazards related to communicable diseases	140,954
Z30-Z39	Persons encountering health services in circumstances related to reproduction	69,663
Z70-Z76	Persons encountering health services in other circumstances	52,505
Z55-Z65	Persons with potential health hazards related to socioeconomic and psychosocial circumstances	2,016

Health problems of out-patients in 2019



IN-PATIENTS

IN 2019

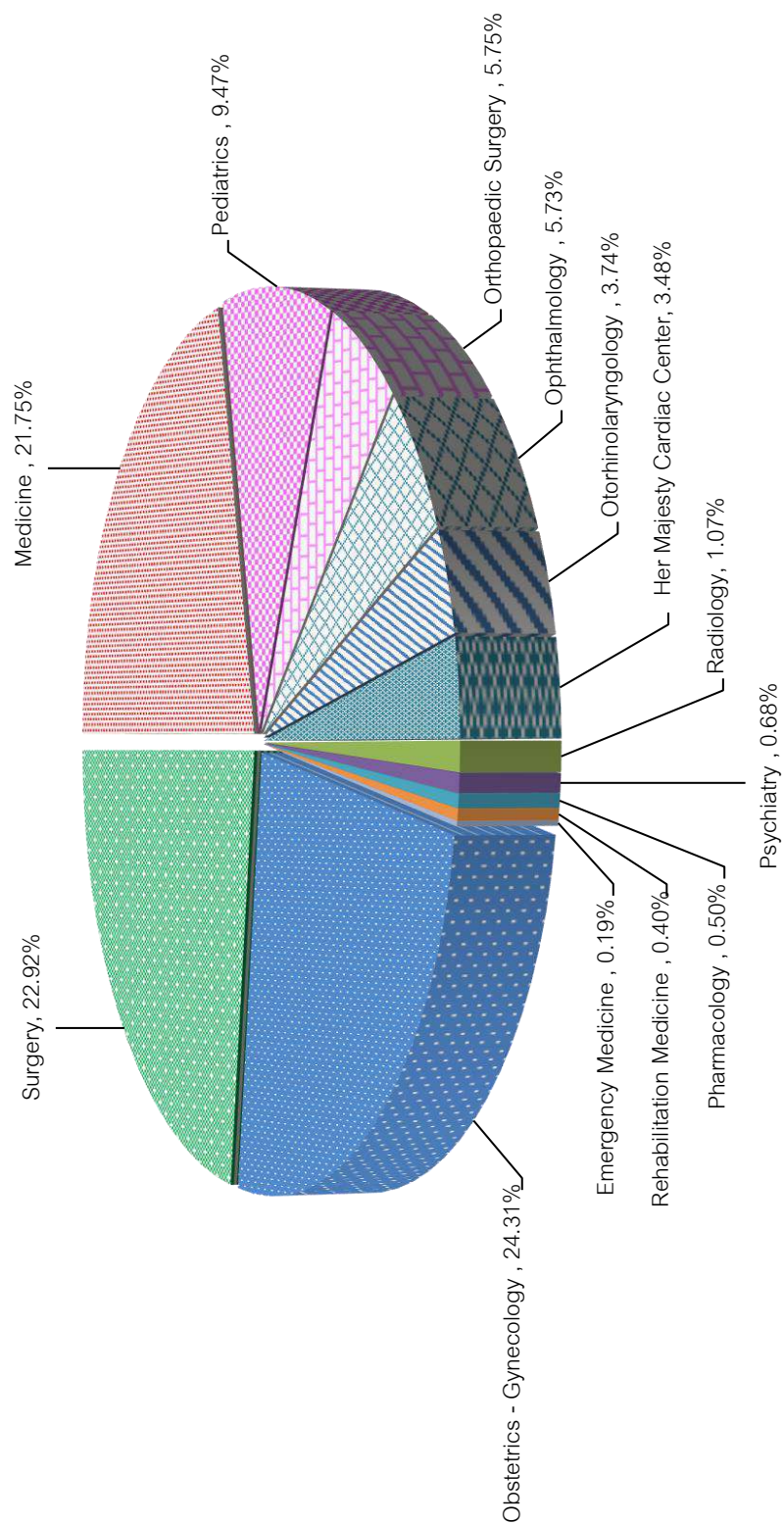
Number of in-patients in each department in 2019, classified monthly

Department	Month												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
Obstetrics - Gynecology	1,840	1,622	1,795	1,597	1,816	1,765	1,762	1,830	1,810	1,769	1,733	1,595	20,934
Surgery	1,537	1,443	1,821	1,561	1,708	1,649	1,627	1,792	1,651	1,637	1,743	1,572	19,741
Medicine	1,500	1,413	1,557	1,443	1,568	1,481	1,601	1,638	1,633	1,622	1,707	1,570	18,733
Pediatrics	681	643	692	617	628	645	685	760	759	758	678	612	8,158
Orthopaedic Surgery	373	357	474	356	395	452	412	471	416	387	431	429	4,953
Ophthalmology	376	411	405	382	443	438	389	423	422	469	396	381	4,935
Otorhinolaryngology	271	254	349	267	241	273	263	295	241	251	270	247	3,222
Her Majesty Cardiac Center	253	231	287	222	240	262	270	270	244	228	261	230	2,998
Radiology	83	82	105	65	73	66	46	80	83	74	86	81	924
Psychiatry	43	41	46	39	54	50	47	50	55	48	58	52	583
Pharmacology	28	32	2	2	30	88	76	29	28	28	82	8	433
Rehabilitation Medicine	16	33	29	25	26	34	30	30	31	26	33	35	348
Emergency Medicine	15	10	9	12	17	14	15	14	15	18	10	11	160
Total	7,016	6,572	7,571	6,588	7,239	7,217	7,223	7,682	7,388	7,315	7,488	6,823	86,122

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of in-patients in each department in 2019



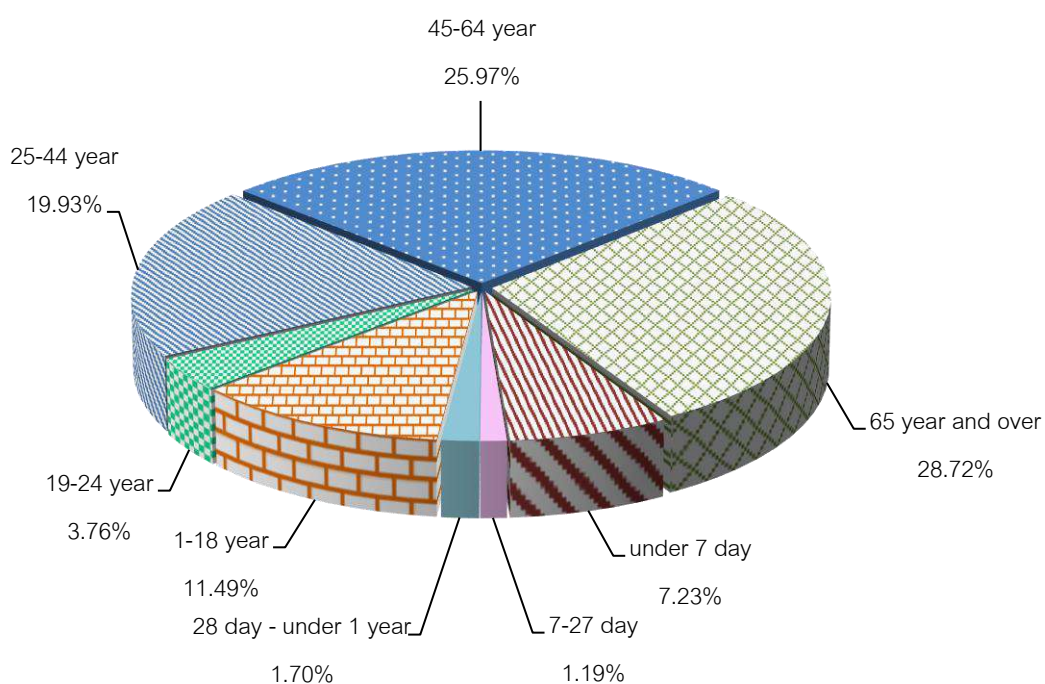
Number of in-patients in 2019, classified by age and gender

Age	Gender		Total
	Male	Female	
under 7 day	3,196	3,033	6,229
7-27 day	609	419	1,028
28 day - under 1 year	842	622	1,464
1-18 year	5,458	4,438	9,896
19-24 year	889	2,352	3,241
25-44 year	3,816	13,349	17,165
45-64 year	10,101	12,268	22,369
65 year and over	11,808	12,922	24,730
Total	36,719	49,403	86,122

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of in-patients in 2019, classified by age



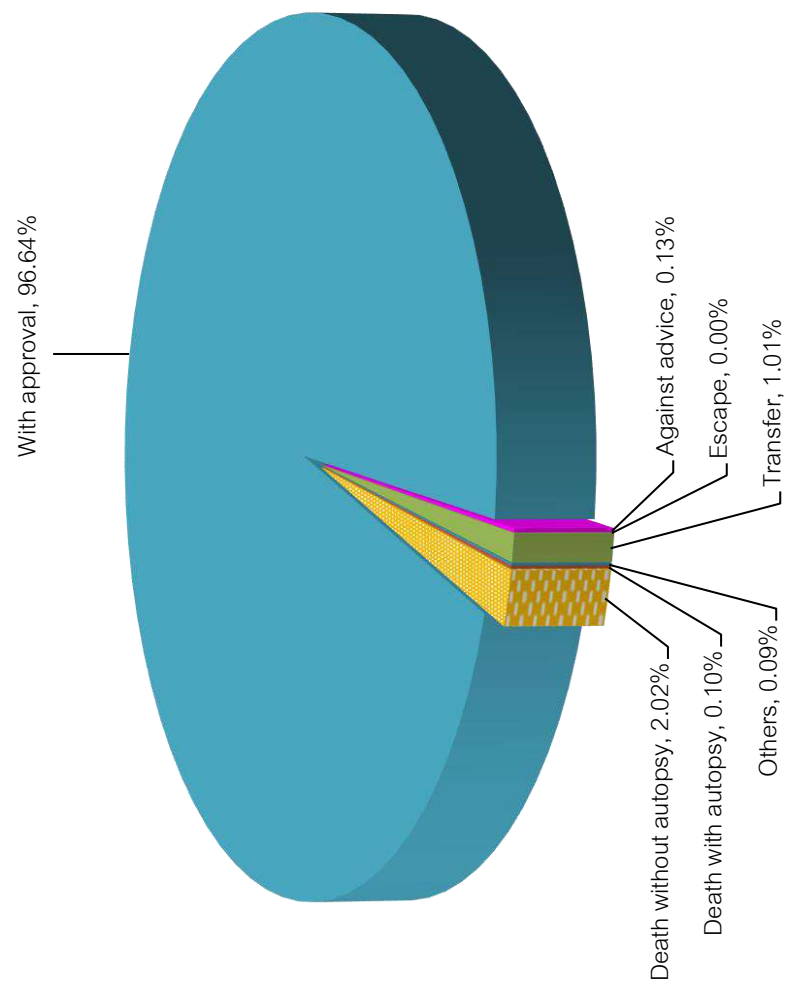
Number of in-patients in each department in 2019, classified by discharge types

Department	Discharge types						Total
	With approval	Against advice	Escape	Transfer	Others	Death with autopsy	Death without autopsy
Obstetrics - Gynecology	20,796	25	0	55	5	3	50
Surgery	19,066	6	0	379	19	50	221
Medicine	17,051	67	1	312	33	27	1,242
Pediatrics	7,986	7	1	62	13	6	83
Orthopaedic Surgery	4,907	0	0	33	3	0	10
Ophthalmology	4,927	5	0	2	1	0	0
Otorhinolaryngology	3,203	1	0	10	0	0	8
Her Majesty Cardiac Center	2,981	0	0	13	0	0	4
Radiology	895	2	0	6	0	1	20
Psychiatry	579	2	0	2	0	0	0
Pharmacology	432	1	0	0	0	0	0
Rehabilitation Medicine	348	0	0	0	0	0	0
Emergency Medicine	56	0	0	0	2	1	101
Total	83,227	116	2	874	76	88	1,739
							86,122

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of in-patients in 2019, classified by discharge types



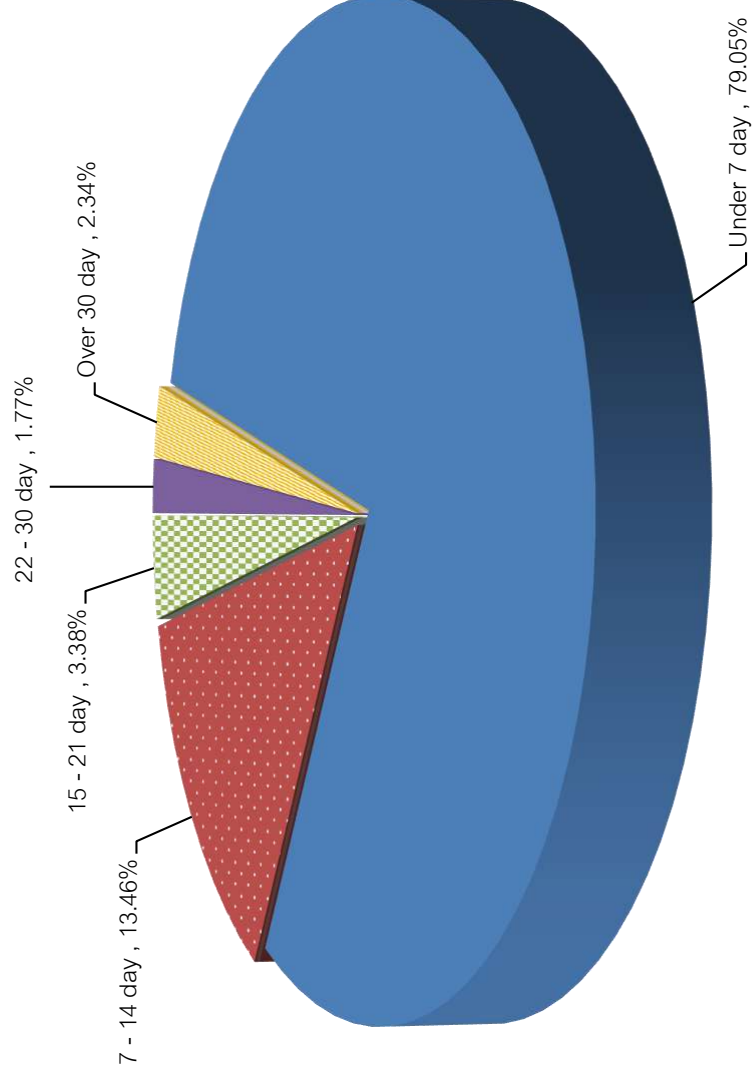
Number of in-patients in each department in 2019, classified by length of stay

Department	Length of stay (days)				Total
	Under 7	7-14	15-21	22 - 30	Over 30
Obstetrics - Gynecology	19,105	1,573	127	69	60
Surgery	14,480	3,694	721	368	478
Medicine	13,014	3,237	1,083	605	794
Pediatrics	5,946	1,263	366	176	407
Orthopaedic Surgery	3,500	1,012	209	117	115
Ophthalmology	4,544	220	82	38	51
Otorhinolaryngology	2,882	260	58	12	10
Her Majesty Cardiac Center	2,961	23	5	5	4
Radiology	728	80	50	34	32
Psychiatry	381	100	47	26	29
Pharmacology	433	0	0	0	0
Rehabilitation Medicine	6	78	163	70	31
Emergency Medicine	99	55	4	1	1
Total	68,079	11,595	2,915	1,521	2,012
					86,122

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of in-patients in 2019, classified by length of stay

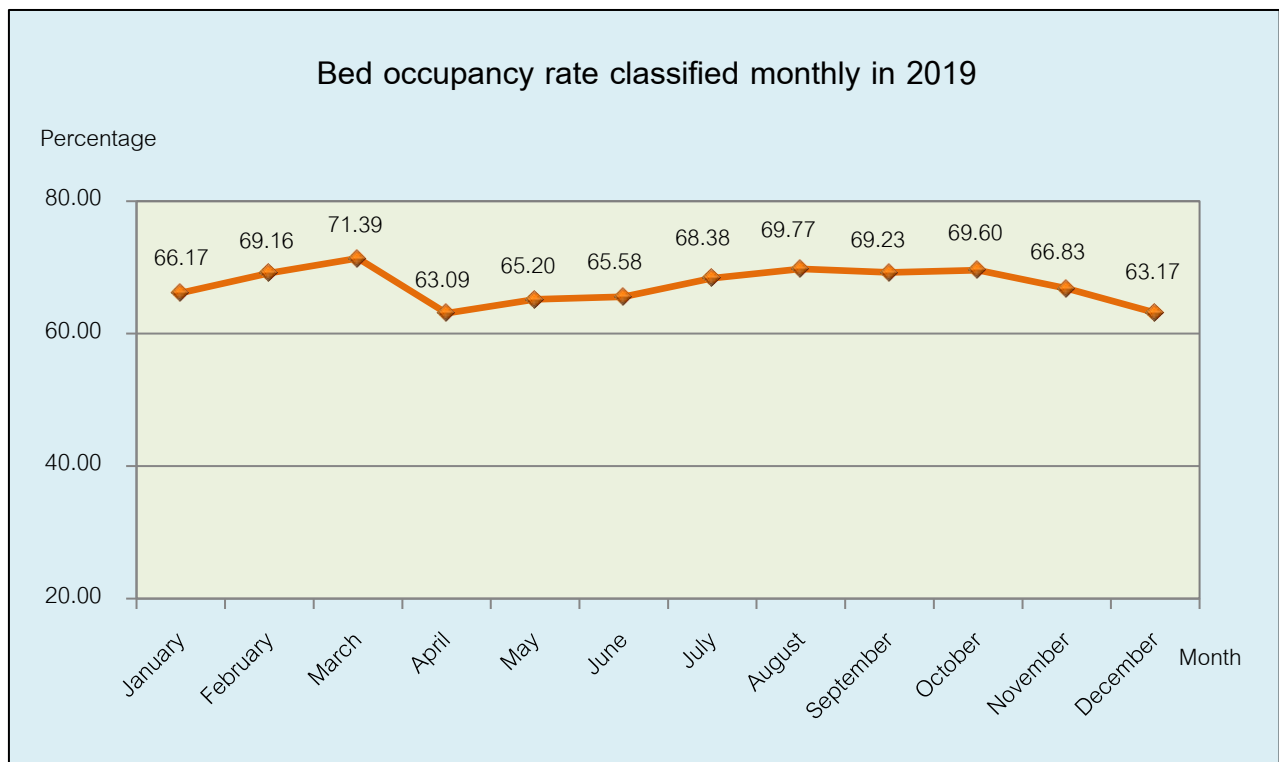


Bed occupancy rate classified monthly in 2019

Month	Bed occupancy rate
January	66.17
February	69.16
March	71.39
April	63.09
May	65.20
June	65.58
July	68.38
August	69.77
September	69.23
October	69.60
November	66.83
December	63.17
Average	63.91

Data source: Nursing department

Date: 20 April 2020



Number of births and deliveries of in-patients in 2019, classified monthly

Types	Month												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
Births	636	533	602	591	631	599	623	631	633	615	563	529	7,186
- Neonate	632	531	599	587	627	596	622	628	632	614	563	529	7,160
- Stillbirth	4	2	3	4	4	3	1	3	1	1	0	0	26
Deliveries	620	521	587	569	611	584	606	613	620	596	548	521	6,996

Data source: Obstetrics and Gynecology department

Date: 14 July 2020

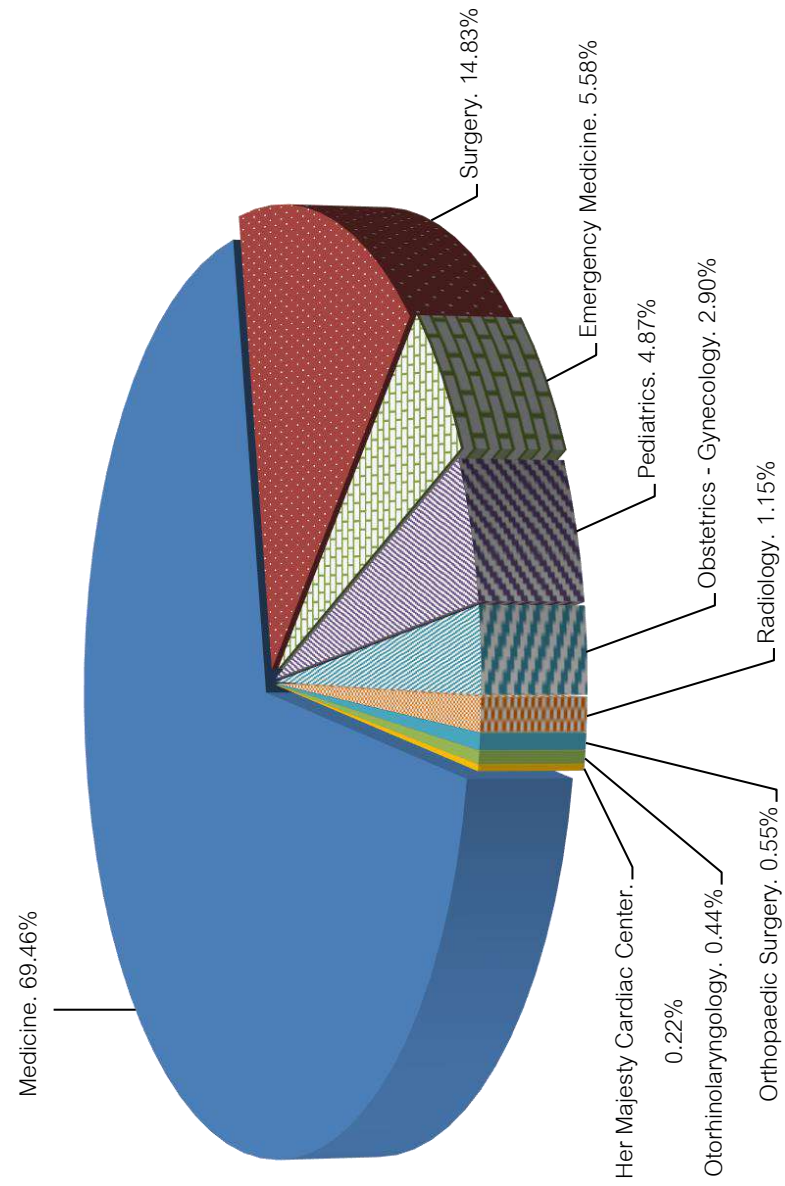
Number of death of in-patients in each department in 2019, classified by month

Department	Month												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
Medicine	121	105	107	127	112	102	103	71	102	108	111	100	1,269
Surgery	16	14	19	31	22	23	23	20	18	32	26	27	271
Emergency Medicine	11	6	5	9	9	6	13	7	9	14	5	8	102
Pediatrics	2	6	7	12	8	9	9	7	5	9	12	3	89
Obstetrics - Gynecology	6	2	3	5	9	4	7	2	3	2	5	5	53
Radiology	3	1	1	3	2	3	1	2	3	0	1	1	21
Orthopaedic Surgery	3	0	3	1	0	0	1	0	2	0	0	0	10
Otorhinolaryngology	0	0	2	1	2	0	1	2	0	0	0	0	8
Her Majesty Cardiac Center	0	0	0	0	1	1	0	0	0	1	1	0	4
Total	162	134	147	189	165	148	158	111	142	166	161	144	1,827

Data source: Siriraj information technology department

Date: 14 July 2020

Percentage of death of in-patients in each department in 2019



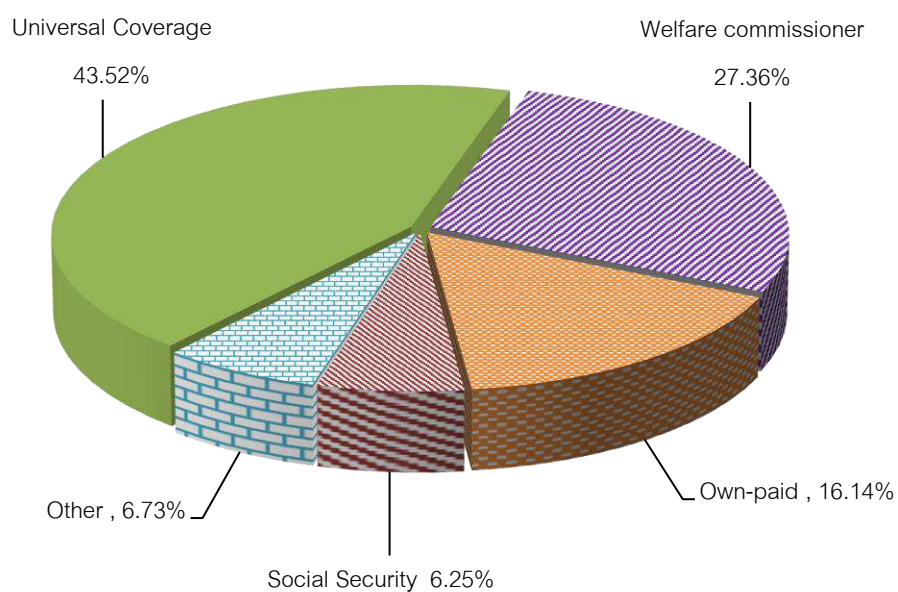
Number of in-patients in 2019, classified by Health insurance

Health insurance	Number
Universal Coverage	37,478
Welfare commissioner	23,562
Own-paid	13,901
Social Security	5,381
Other	5,800
Total	86,122

Data source : Siriraj information technology department

Date: 14 July 2020

Percentage of in-patients in 2019, classified by Health insurance



Number of in-patients in 2019, classified by nationality

Nationalities	Number	Percentage (%)
Thai	83,159	96.56
Burmese	1029	1.19
Laotian	423	0.49
Cambodian	496	0.58
Chinese	243	0.28
Indian	31	0.04
Pakistani	17	0.02
Vietnamese	25	0.03
American	31	0.04
Filipino	20	0.02
British	12	0.01
German	14	0.02
Bangladeshi	15	0.02
Japanese	12	0.01
Irish	7	0.01
Other	63	0.07
Unknow	525	0.61
Total	86,122	100.00

Data source: Siriraj information technology department

Date: 14 July 2020

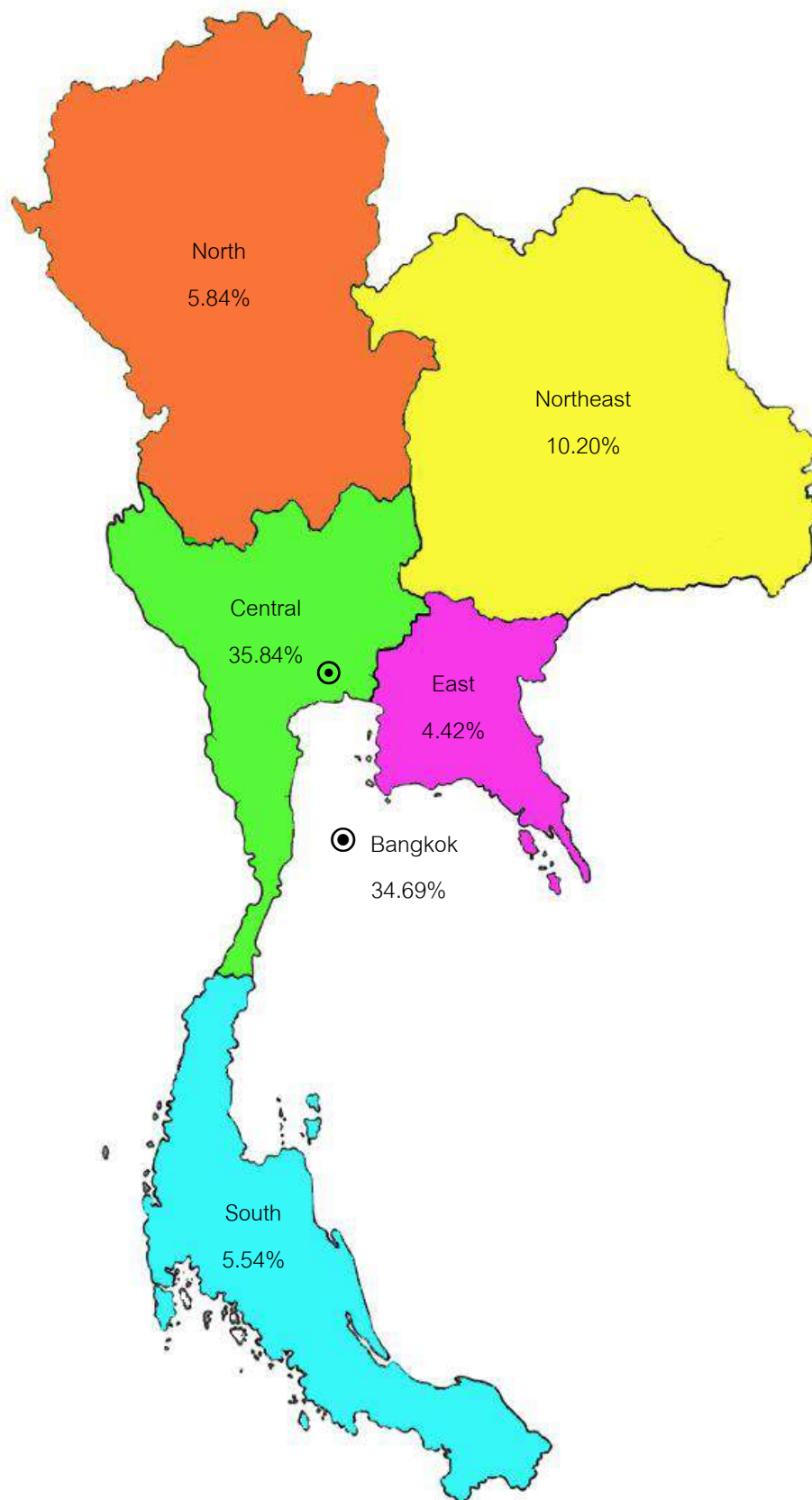
Number of in-patients in 2019, classified by regions and gender

Regions	Gender		Total
	Male	Female	
Central	13,433	17,437	30,870
Bangkok	12,986	16,894	29,880
Northeast	3,301	5,487	8,788
North	2,022	3,011	5,033
South	2,125	2,647	4,772
East	1,686	2,120	3,806
Unknow	1,166	1,807	2,973
Total	36,719	49,403	86,122

Data source: Siriraj information technology department

Date: 14 July 2020

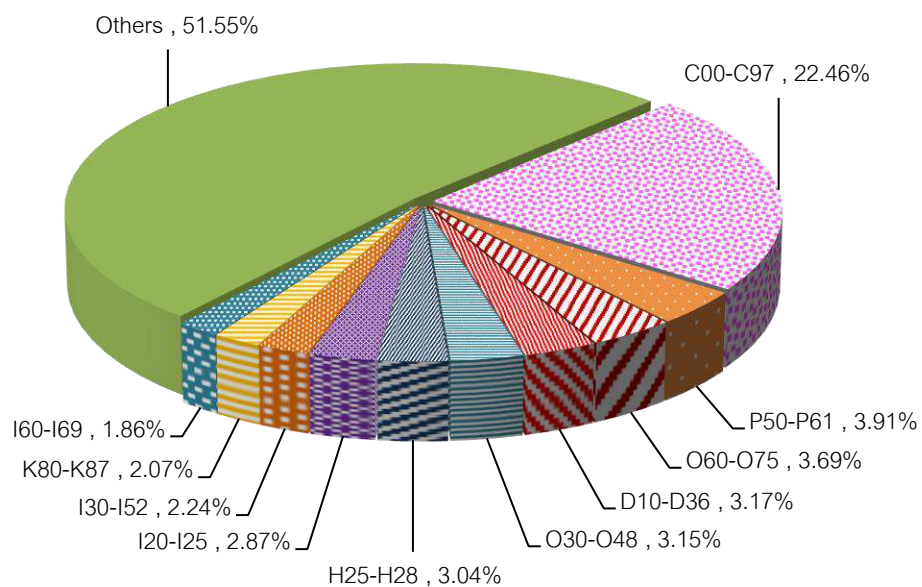
Percentage of in-patients in 2019, classified by regions



Top ten principal diagnoses of in-patients in 2019

ICD-10	Description	Number of visits	Average length of stay
C00-C97	Malignant neoplasms	19,343	5.62
P50-P61	Haemorrhagic and haematological disorders of fetus and newborn	3,371	3.88
O60-O75	Complications of labour and delivery	3,177	4.70
D10-D36	Benign neoplasms	2,726	4.88
O30-O48	Maternal care related to the fetus and amniotic cavity and possible delivery problems	2,714	4.83
H25-H28	Disorders of lens	2,614	1.17
I20-I25	Ischaemic heart diseases	2,469	4.29
I30-I52	Other forms of heart disease	1,930	6.99
K80-K87	Disorders of gallbladder, biliary tract and pancreas	1,782	4.93
I60-I69	Cerebrovascular diseases	1,600	8.66

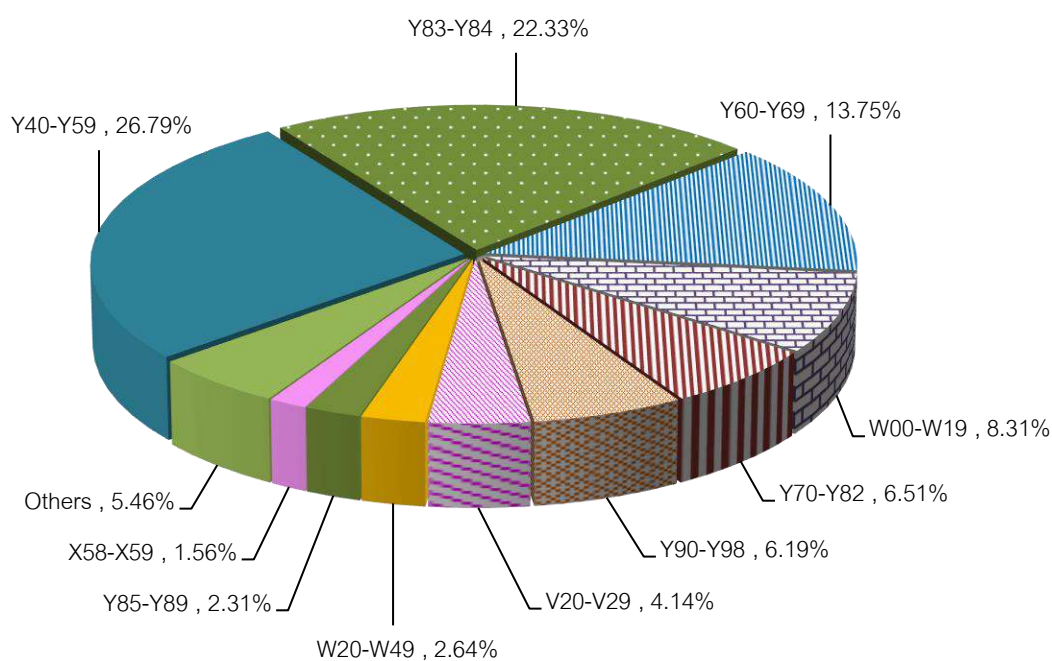
Top ten principal diagnoses of in-patients in 2019



Top ten external causes of in-patients in 2019

ICD-10	Description	Number of visits
Y40-Y59	Drugs, medicaments and biological substances causing adverse effects in therapeutic use	3,157
Y83-Y84	Surgical and other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	2,632
Y60-Y69	Misadventures to patients during surgical and medical care	1,621
W00-W19	Falls	979
Y70-Y82	Medical devices associated with adverse incidents in diagnostic and therapeutic use	767
Y90-Y98	Supplementary factors related to causes of morbidity and mortality classified elsewhere	730
V20-V29	Motorcycle rider injured in transport accident	488
W20-W49	Exposure to inanimate mechanical forces	311
Y85-Y89	Sequelae of external causes of morbidity and mortality	272
X58-X59	Accidental exposure to other and unspecified factors	184

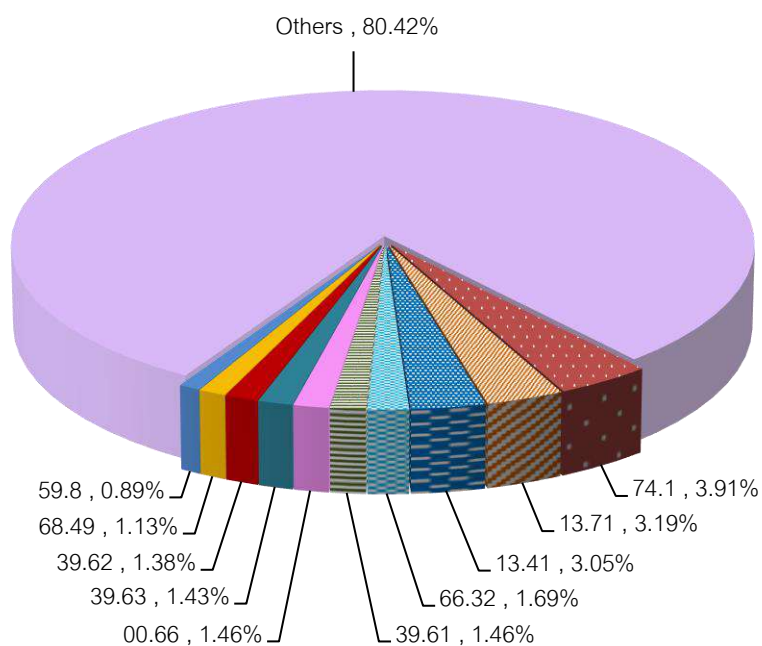
Top ten external causes of in-patients in 2019



Top ten operations of in-patients in 2019

ICD-9-CM	Description	Number of operations
74.1	Low cervical cesarean section	3,364
13.71	Insertion of intraocular lens prosthesis at time of cataract extraction, one-stage	2,741
13.41	Phacoemulsification and aspiration of cataract	2,622
66.32	Other bilateral ligation and division of fallopian tubes	1,457
39.61	Extracorporeal circulation auxiliary to open heart surgery	1,259
00.66	Percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy	1,254
39.63	Cardioplegia	1,230
39.62	Hypothermia (systemic) incidental to open heart surgery	1,191
68.49	Other and unspecified total abdominal hysterectomy	972
59.8	Ureteral catheterization	763

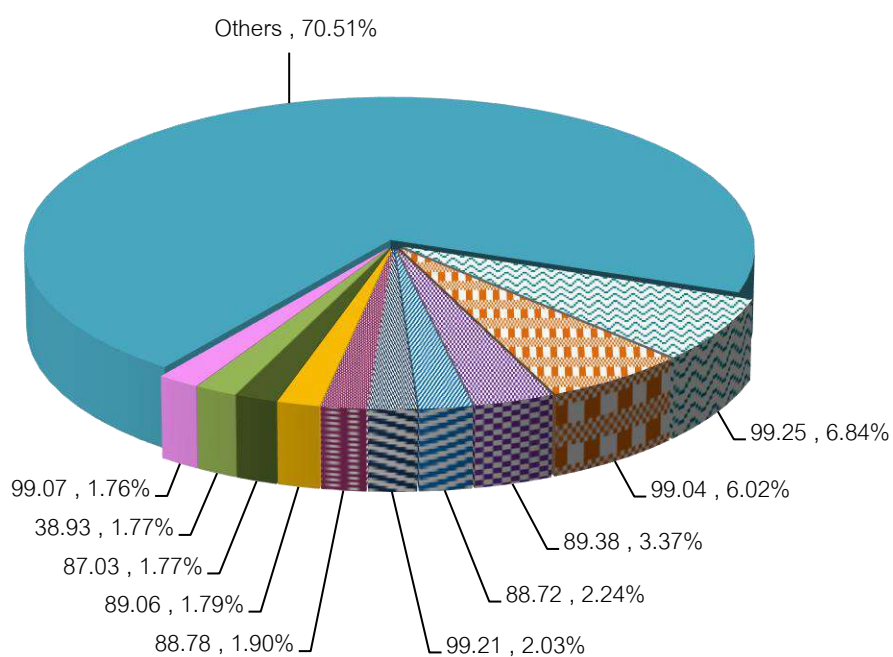
Top ten operations of in-patients in 2019



Top ten procedures of in-patients in 2019

ICD-9-CM	Description	Number of procedures
99.25	Injection or infusion of cancer chemotherapeutic substance	10,597
99.04	Transfusion of packed cells	9,325
89.38	Other nonoperative respiratory measurements	5,230
88.72	Diagnostic ultrasound of heart	3,473
99.21	Injection of antibiotic	3,154
88.78	Diagnostic ultrasound of gravid uterus	2,950
89.06	Consultation, described as limited	2,774
87.03	Computerized axial tomography of head	2,742
38.93	Venous catheterization, not elsewhere classified	2,739
99.07	Transfusion of other serum	2,735

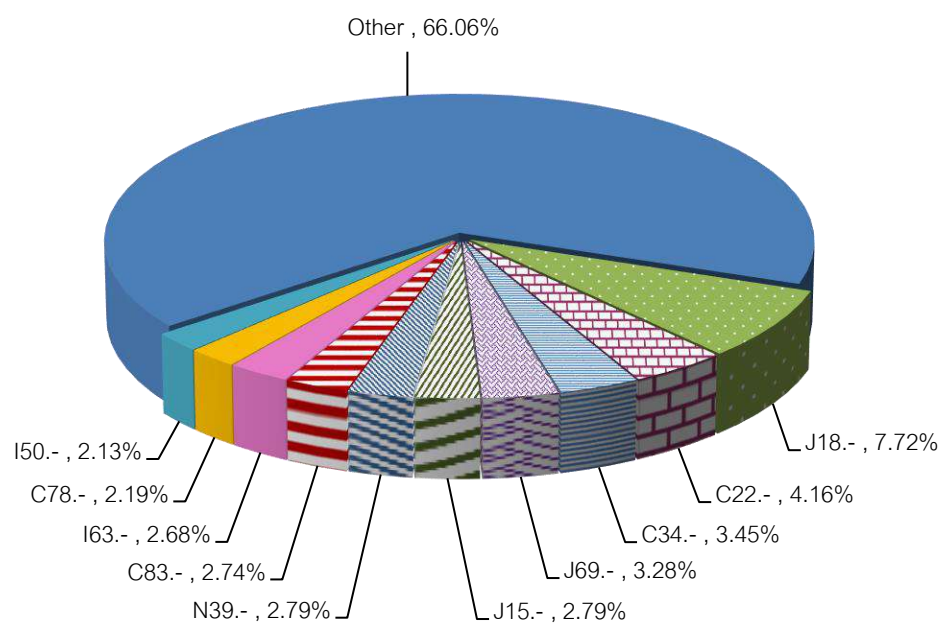
Top ten procedures of in-patients in 2019



Top ten causes of death of in-patients in 2019

ICD-10	Description	Number of visit
J18.-	Pneumonia, organism unspecified	141
C22.-	Malignant neoplasm of liver and intrahepatic bile ducts	76
C34.-	Malignant neoplasm of bronchus and lung	63
J69.-	Pneumonitis due to solids and liquids	60
J15.-	Bacterial pneumonia, not elsewhere classified	51
N39.-	Other disorders of urinary system	51
C83.-	Non-follicular lymphoma	50
I63.-	Cerebral infarction	49
C78.-	Secondary malignant neoplasm of respiratory and digestive organs	40
I50.-	Heart failure	39

Top ten causes of death of in-patients in 2019



Top ten principal diagnoses of in-patients in 2019

Department of Medicine

ICD-10	Description	Number of visits	Average Length of stay
C78.-	Secondary malignant neoplasm of respiratory and digestive organs	1,070	3.55
C22.-	Malignant neoplasm of liver and intrahepatic bile ducts	983	3.22
C83.-	Non-follicular lymphoma	901	8.25
I63.-	Cerebral infarction	815	8.07
C18.-	Malignant neoplasm of colon	765	2.80
C20.-	Malignant neoplasm of rectum	506	2.47
C34.-	Malignant neoplasm of bronchus and lung	481	5.17
I50.-	Heart failure	481	10.67
C25.-	Malignant neoplasm of pancreas	382	3.08
I21.-	Acute myocardial infarction	370	8.25

Top ten external causes of in-patients in 2019

Department of Medicine

ICD-10	Description	Number of visits
Y43.-	Primarily systemic agents	745
Y95.-	Nosocomial condition	499
Y71.-	Cardiovascular devices associated with adverse incidents	302
Y44.-	Agents primarily affecting blood constituents	300
Y40.-	Systemic antibiotics	268
Y42.-	Hormones and their synthetic substitutes and antagonists, not elsewhere classified	231
Y84.-	Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	177
Y73.-	Gastroenterology and urology devices associated with adverse incidents	171
Y83.-	Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	153
Y60.-	Unintentional cut, puncture, perforation or haemorrhage during surgical and medical care	131

Top ten operations of in-patients in 2019
Department of Medicine

ICD-9-CM	Description	Number of operations
00.40	Procedure on single vessel	338
37.22	Left heart cardiac catheterization	249
88.56	Coronary arteriography using two catheters	243
00.66	Percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy	242
36.07	Insertion of drug-eluting coronary artery stent(s)	213
50.24	Percutaneous ablation of liver lesion or tissue	199
00.45	Insertion of one vascular stent	185
45.13	Other endoscopy of small intestine	171
88.74	Diagnostic ultrasound of digestive system	169
00.24	Intravascular imaging of coronary vessels	157

Top ten procedures of in-patients in 2019
Department of Medicine

ICD-9-CM	Description	Number of procedures
99.25	Injection or infusion of cancer chemotherapeutic substance	6,258
99.04	Transfusion of packed cells	3,349
88.72	Diagnostic ultrasound of heart	1,527
57.94	Insertion of indwelling urinary catheter	1,370
99.28	Injection or infusion of biological response modifier [BRM] as an antineoplastic agent	1,304
99.05	Transfusion of platelets	1,267
87.03	Computerized axial tomography of head	1,245
93.94	Respiratory medication administered by nebulizer	1,164
96.04	Insertion of endotracheal tube	1,088
99.07	Transfusion of other serum	1,015

Top ten principal diagnoses of in-patients in 2019

Department of Surgery

ICD-10	Description	Number of visits	Average Length of stay
C22.-	Malignant neoplasm of liver and intrahepatic bile ducts	933	3.82
K80.-	Cholelithiasis	807	3.46
C50.-	Malignant neoplasm of breast	793	3.83
C61.-	Malignant neoplasm of prostate	610	4.02
N40.-	Hyperplasia of prostate	479	2.97
I25.-	Chronic ischaemic heart disease	436	10.08
K40.-	Inguinal hernia	408	2.37
T82.-	Complications of cardiac and vascular prosthetic devices, implants and grafts	406	5.92
C18.-	Malignant neoplasm of colon	396	7.81
I70.-	Atherosclerosis	390	12.72

Top ten external causes of in-patients in 2019

Department of Surgery

ICD-10	Description	Number of visits
Y83.-	Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	1,306
Y60.-	Unintentional cut, puncture, perforation or haemorrhage during surgical and medical care	855
W18.-	Other fall on same level	152
Y95.-	Nosocomial condition	106
Y44.-	Agents primarily affecting blood constituents	102
V28.-	Motorcycle rider injured in noncollision transport accident	96
V23.-	Motorcycle rider injured in collision with car, pick-up truck or van	95
Y84.-	Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	79
Y62.-	Failure of sterile precautions during surgical and medical care	51
W01.-	Fall on same level from slipping, tripping and stumbling	48

Top ten operations of in-patients in 2019

Department of Surgery

ICD-9-CM	Description	Number of operations
39.61	Extracorporeal circulation auxiliary to open heart surgery	937
39.62	Hypothermia (systemic) incidental to open heart surgery	934
39.63	Cardioplegia	931
51.23	Laparoscopic cholecystectomy	715
40.23	Excision of axillary lymph node	681
59.8	Ureteral catheterization	680
90.79	Microscopic examination of specimen from lymph node and of lymph , other microscopic examination	675
57.32	Other cystoscopy	573
02.05	Insertion of skull plate	511
60.11	Closed [percutaneous] [needle] biopsy of prostate	510

Top ten procedures of in-patients in 2019

Department of Surgery

ICD-9-CM	Description	Number of procedures
99.04	Transfusion of packed cells	2,788
99.07	Transfusion of other serum	1,209
38.93	Venous catheterization, not elsewhere classified	1,195
93.39	Other physical therapy	1,036
87.03	Computerized axial tomography of head	972
89.62	Central venous pressure monitoring	924
88.72	Diagnostic ultrasound of heart	826
88.01	Computerized axial tomography of abdomen	824
99.05	Transfusion of platelets	785
88.41	Arteriography of cerebral arteries	564

Top ten principal diagnoses of in-patients in 2019

Department of Obstetrics and Gynecology

ICD-10	Description	Number of visits	Average Length of stay
P59.-	Neonatal jaundice from other and unspecified causes	3,006	3.83
C56.-	Malignant neoplasm of ovary	1,305	2.40
O34.-	Maternal care for known or suspected abnormality of pelvic organs	1,303	4.83
O68.-	Labour and delivery complicated by fetal stress [distress]	1,134	4.37
D25.-	Leiomyoma of uterus	810	3.48
O60.-	Preterm labour and delivery	795	5.18
C54.-	Malignant neoplasm of corpus uteri	711	2.95
O99.-	Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium	682	4.02
O80.-	Single spontaneous delivery	674	3.58
O65.-	Obstructed labour due to maternal pelvic abnormality	618	4.85

Top ten external causes of in-patients in 2019

Department of Obstetrics and Gynecology

ICD-10	Description	Number of visits
Y60.-	Unintentional cut, puncture, perforation or haemorrhage during surgical and medical care	267
Y83.-	Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	63
Y43.-	Primarily systemic agents	57
Y84.-	Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	15
Y55.-	Agents primarily acting on smooth and skeletal muscles and the respiratory system	13
Y40.-	Systemic antibiotics	12
Y45.-	Analgesics, antipyretics and anti-inflammatory drugs	12
Y44.-	Agents primarily affecting blood constituents	11
X58.-	Exposure to other specified factors	8
Y62.-	Failure of sterile precautions during surgical and medical care	8

Top ten operations of in-patients in 2019
Department of Obstetrics and Gynecology

ICD-9-CM	Description	Number of operations
74.1	Low cervical cesarean section	3,361
66.32	Other bilateral ligation and division of fallopian tubes	1,456
68.49	Other and unspecified total abdominal hysterectomy	943
65.61	Other removal of both ovaries and tubes at same operative episode	654
68.29	Other excision or destruction of lesion of uterus	569
66.51	Removal of both fallopian tubes at same operative episode	559
54.59	Other lysis of peritoneal adhesions	553
54.4	Excision or destruction of peritoneal tissue	424
68.41	Laparoscopic total abdominal hysterectomy	366
65.25	Other laparoscopic local excision or destruction of ovary	336

Top ten procedures of in-patients in 2019
Department of Obstetrics and Gynecology

ICD-9-CM	Description	Number of procedures
88.78	Diagnostic ultrasound of gravid uterus	2,935
89.06	Consultation, described as limited	2,774
99.25	Injection or infusion of cancer chemotherapeutic substance	2,319
25.91	Lingual frenotomy	1,990
99.23	Injection of steroid	1,129
75.34	Other fetal monitoring	944
99.04	Transfusion of packed cells	831
99.83	Other phototherapy	828
99.24	Injection of other hormone	807
88.76	Diagnostic ultrasound of abdomen and retroperitoneum	577

Top ten principal diagnoses of in-patients in 2019

Department of Obstetrics and Gynecology : Obstetric unit (Newborn)

ICD-10	Description	Number of visits	Average Length of stay
P59.-	Neonatal jaundice from other and unspecified causes	3,002	3.83
P07.-	Disorders related to short gestation and low birth weight, not elsewhere classified	564	5.21
P05.-	Slow fetal growth and fetal malnutrition	319	4.17
P12.-	Birth injury to scalp	233	3.30
Q38.-	Other congenital malformations of tongue, mouth and pharynx	232	2.88
P22.-	Respiratory distress of newborn	207	4.16
P70.-	Transitory disorders of carbohydrate metabolism specific to fetus and newborn	207	3.44
P21.-	Birth asphyxia	195	3.88
P20.-	Intrauterine hypoxia	121	2.61
P92.-	Feeding problems of newborn	79	3.23

External causes of in-patients in 2019

Department of Obstetrics and Gynecology : Obstetric unit (Newborn)

ICD-10	Description	Number of operations
Y56.-	Topical agents primarily affecting skin and mucous membrane and ophthalmological, otorhinolaryngological and dental drugs	1

Operations of in-patients in 2019

Department of Obstetrics and Gynecology : Obstetric unit (Newborn)

ICD-9-CM	Description	Number of operations
64.0	Circumcision	2
70.31	Hymenectomy	1

Top ten procedures of in-patients in 2019

Department of Obstetrics and Gynecology : Obstetric unit (Newborn)

ICD-9-CM	Description	Number of procedures
25.91	Lingual frenotomy	1,987
89.06	Consultation, described as limited	1,669
99.83	Other phototherapy	827
93.96	Other oxygen enrichment	273
87.49	Other chest x-ray	148
93.90	Non-invasive mechanical ventilation	147
99.14	Injection or infusion of gamma globulin	54
89.52	Electrocardiogram	53
99.21	Injection of antibiotic	16
38.92	Umbilical vein catheterization	15
88.72	Diagnostic ultrasound of heart	15

Top ten principal diagnoses of in-patients in 2019

Department of Pediatrics

ICD-10	Description	Number of visits	Average Length of stay
P07.-	Disorders related to short gestation and low birth weight, not elsewhere classified	447	30.61
C91.-	Lymphoid leukaemia	350	11.07
Q21.-	Congenital malformations of cardiac septa	318	6.55
A09.-	Other gastroenteritis and colitis of infectious and unspecified origin	231	2.88
P59.-	Neonatal jaundice from other and unspecified causes	222	3.39
J18.-	Pneumonia, organism unspecified	191	6.57
J10.-	Influenza due to identified seasonal influenza virus	146	4.16
P22.-	Respiratory distress of newborn	146	5.29
J12.-	Viral pneumonia, not elsewhere classified	144	6.06
Q20.-	Congenital malformations of cardiac chambers and connections	135	9.50

Top ten external causes of in-patients in 2019

Department of Pediatrics

ICD-10	Description	Number of visits
Y43.-	Primarily systemic agents	255
Y83.-	Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	101
Y42.-	Hormones and their synthetic substitutes and antagonists, not elsewhere classified	90
Y95.-	Nosocomial condition	73
X58.-	Exposure to other specified factors	54
Y62.-	Failure of sterile precautions during surgical and medical care	49
Y40.-	Systemic antibiotics	48
Y84.-	Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	40
Y71.-	Cardiovascular devices associated with adverse incidents	26
Y07.-	Other maltreatment syndromes	18

Top ten operations of in-patients in 2019
Department of Pediatrics

ICD-9-CM	Description	Number of operations
89.65	Measurement of systemic arterial blood gases	301
37.23	Combined right and left heart cardiac catheterization	291
89.66	Measurement of mixed venous blood gases	290
25.91	Lingual frenotomy	270
39.61	Extracorporeal circulation auxiliary to open heart surgery	264
88.54	Combined right and left heart angiocardiology	252
39.63	Cardioplegia	244
39.62	Hypothermia (systemic) incidental to open heart surgery	199
97.23	Replacement of tracheostomy tube	113
38.93	Venous catheterization, not elsewhere classified	107

Top ten procedures of in-patients in 2019
Department of Pediatrics

ICD-9-CM	Description	Number of procedures
89.38	Other nonoperative respiratory measurements	5,128
99.21	Injection of antibiotic	2,443
87.44	Routine chest x-ray, so described	2,439
93.96	Other oxygen enrichment	1,489
99.25	Injection or infusion of cancer chemotherapeutic substance	1,208
89.52	Electrocardiogram	1,143
99.04	Transfusion of packed cells	1,085
93.94	Respiratory medication administered by nebulizer	1,067
90.39	Microscopic examination of specimen from ear, nose, throat, and larynx ,other microscopic examination	940
96.6	Enteral infusion of concentrated nutritional substances	789

Top ten principal diagnoses of in-patients in 2019
Department of Otorhinolaryngology

ICD-10	Description	Number of visits	Average Length of stay
J35.-	Chronic diseases of tonsils and adenoids	405	2.12
J38.-	Diseases of vocal cords and larynx, not elsewhere classified	241	2.19
C73.-	Malignant neoplasm of thyroid gland	159	4.57
C32.-	Malignant neoplasm of larynx	157	5.77
J39.-	Other diseases of upper respiratory tract	151	5.83
D14.-	Benign neoplasm of middle ear and respiratory system	138	2.20
E04.-	Other nontoxic goitre	129	3.12
J95.-	Postprocedural respiratory disorders, not elsewhere classified	109	2.28
H65.-	Nonsuppurative otitis media	82	1.83
K11.-	Diseases of salivary glands	82	3.04

Top ten external causes of in-patients in 2019
Department of Otorhinolaryngology

ICD-10	Description	Number of visits
Y83.-	Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	216
Y88.-	Sequelae with surgical and medical care as external cause	36
W44.-	Foreign body entering into or through eye or natural orifice	24
Y85.-	Sequelae of transport accidents	12
X59.-	Exposure to unspecified factor	9
Y40.-	Systemic antibiotics	6
Y95.-	Nosocomial condition	6
Y44.-	Agents primarily affecting blood constituents	4
Y72.-	Otorhinolaryngological devices associated with adverse incidents	4
Y84.-	Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	4
Y87.-	Sequelae of intentional self-harm, assault and events of undetermined intent	4

Top ten operations of in-patients in 2019
Department of Otorhinolaryngology

ICD-9-CM	Description	Number of operations
31.42	Laryngoscopy and other tracheoscopy	326
97.23	Replacement of tracheostomy tube	252
31.92	Lysis of adhesions of trachea or larynx	240
28.3	Tonsillectomy with adenoidectomy	238
06.2	Unilateral thyroid lobectomy	202
00.94	Intra-operative neurophysiologic monitoring	171
22.2	Intranasal antrotomy	161
28.2	Tonsillectomy without adenoidectomy	148
22.63	Ethmoidectomy	140
42.23	Other esophagoscopy	138

Top ten procedures of in-patients in 2019
Department of Otorhinolaryngology

ICD-9-CM	Description	Number of procedures
96.6	Enteral infusion of concentrated nutritional substances	100
99.04	Transfusion of packed cells	91
87.03	Computerized axial tomography of head	48
95.41	Audiometry	43
88.41	Arteriography of cerebral arteries	27
99.03	Other transfusion of whole blood	26
99.23	Injection of steroid	23
20.94	Injection of tympanum	22
31.42	Laryngoscopy and other tracheoscopy	22
42.29	Other diagnostic procedures on esophagus	22
88.38	Other computerized axial tomography	22

Top ten principal diagnoses of in-patients in 2019

Department of Ophthalmology

ICD-10	Description	Number of visits	Average Length of stay
H25.-	Senile cataract	2,435	1.14
H33.-	Retinal detachments and breaks	307	1.99
H40.-	Glaucoma	275	2.25
H16.-	Keratitis	198	16.84
H50.-	Other strabismus	191	1.52
H35.-	Other retinal disorders	183	1.36
H59.-	Postprocedural disorders of eye and adnexa, not elsewhere classified	126	1.72
H18.-	Other disorders of cornea	120	11.95
H04.-	Disorders of lacrimal system	118	2.13
H26.-	Other cataract	106	1.65

Top ten external causes of in-patients in 2019

Department of Ophthalmology

ICD-10	Description	Number of visits
Y83.-	Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	122
Y77.-	Ophthalmic devices associated with adverse incidents	105
Y60.-	Unintentional cut, puncture, perforation or haemorrhage during surgical and medical care	100
W20.-	Struck by thrown, projected or falling object	30
W01.-	Fall on same level from slipping, tripping and stumbling	8
W44.-	Foreign body entering into or through eye or natural orifice	7
W24.-	Contact with lifting and transmission devices, not elsewhere classified	6
V29.-	Motorcycle rider injured in other and unspecified transport accidents	5
X49.-	Accidental poisoning by and exposure to other and unspecified chemicals and noxious substances	4
W27.-	Contact with nonpowered hand tool	3
W40.-	Explosion of other materials	3
Y04.-	Assault by bodily force	3

Top ten operations of in-patients in 2019
Department of Ophthalmology

ICD-9-CM	Description	Number of operations
13.71	Insertion of intraocular lens prosthesis at time of cataract extraction, one-stage	2,740
13.41	Phacoemulsification and aspiration of cataract	2,621
14.74	Other mechanical vitrectomy	666
14.9	Other operations on retina, choroid, and posterior chamber	470
14.75	Injection of vitreous substitute	452
14.79	Other operations on vitreous	291
14.54	Repair of retinal detachment with laser photocoagulation	240
14.24	Destruction of chorioretinal lesion by laser photocoagulation	173
12.64	Trabeculectomy ab externo	161
13.2	Extracapsular extraction of lens by linear extraction technique	158

Top ten procedures of in-patients in 2019
Department of Ophthalmology

ICD-9-CM	Description	Number of procedures
14.54	Repair of retinal detachment with laser photocoagulation	50
99.23	Injection of steroid	34
88.91	Magnetic resonance imaging of brain and brain stem	22
88.97	Magnetic resonance imaging of other and unspecified sites	22
12.12	Other iridotomy	16
87.03	Computerized axial tomography of head	16
14.24	Destruction of chorioretinal lesion by laser photocoagulation	13
12.79	Other glaucoma procedures	8
99.25	Injection or infusion of cancer chemotherapeutic substance	8
14.79	Other operations on vitreous	6
99.21	Injection of antibiotic	6

Top ten principal diagnoses of in-patients in 2019

Department of Orthopaedic surgery

ICD-10	Description	Number of visits	Average Length of stay
M17.-	Gonarthrosis [arthrosis of knee]	756	5.53
S72.-	Fracture of femur	300	12.35
M48.-	Other spondylopathies	263	7.97
M23.-	Internal derangement of knee	230	2.76
T84.-	Complications of internal orthopaedic prosthetic devices, implants and grafts	176	12.31
M47.-	Spondylosis	143	6.05
C79.-	Secondary malignant neoplasm of other and unspecified sites	138	12.20
S82.-	Fracture of lower leg, including ankle	125	6.90
M43.-	Other deforming dorsopathies	122	7.07
S52.-	Fracture of forearm	113	3.34

Top ten external causes of in-patients in 2019

Department of Orthopaedic surgery

ICD-10	Description	Number of visits
W01.-	Fall on same level from slipping, tripping and stumbling	402
Y83.-	Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	270
Y60.-	Unintentional cut, puncture, perforation or haemorrhage during surgical and medical care	94
V28.-	Motorcycle rider injured in noncollision transport accident	83
X59.-	Exposure to unspecified factors	74
Y79.-	Orthopaedic devices associated with adverse incidents	71
Y85.-	Sequelae of transport accidents	63
V23.-	Motorcycle rider injured in collision with car, pick-up truck or van	60
W10.-	Fall on and from stairs and steps	38
Y42.-	Hormones and their synthetic substitutes and antagonists, not elsewhere classified	36

Top ten operations of in-patients in 2019

Department of Orthopaedic surgery

ICD-9-CM	Description	Number of operations
81.54	Total knee replacement	740
03.09	Other exploration and decompression of spinal canal	479
81.08	Lumbar and lumbosacral fusion, posterior technique	347
80.26	Arthroscopy, knee	254
80.51	Excision of intervertebral disc	223
78.59	Internal fixation of bone without fracture reduction , other	213
83.41	Excision of tendon for graft	197
77.79	Excision of bone for graft, other	193
77.49	Biopsy of bone, other site	187
81.45	Other repair of the cruciate ligaments	180

Top ten procedures of in-patients in 2019

Department of Orthopaedic surgery

ICD-9-CM	Description	Number of procedures
99.04	Transfusion of packed cells	975
84.55	Insertion of bone void filler	843
84.51	Insertion of interbody spinal fusion device	724
81.62	Fusion or refusion of 2-3 vertebrae	510
57.94	Insertion of indwelling urinary catheter	307
88.38	Other computerized axial tomography	131
88.79	Other diagnostic ultrasound	123
93.53	Application of other cast	115
84.52	Insertion of recombinant bone morphogenetic protein	114
88.98	Bone mineral density studies	100

Top ten principal diagnoses of in-patients in 2019

Department of Rehabilitation medicine

ICD-10	Description	Number of visits	Average Length of stay
G81.-	Hemiplegia	193	18.98
G82.-	Paraplegia and tetraplegia	56	20.30
M62.-	Other disorders of muscle	30	17.73
I63.-	Cerebral infarction	13	31.38
G95.-	Other diseases of spinal cord	4	16.50
I61.-	Intracerebral haemorrhage	4	28.75
S72.-	Fracture of femur	4	40.75
G20.-	Parkinson 's disease	3	19.33
G80.-	Cerebral palsy	3	13.00
G83.-	Other paralytic syndromes	3	18.00
M17.-	Gonarthrosis [arthrosis of knee]	3	16.67

Top five external causes of in-patients in 2019

Department of Rehabilitation medicine

ICD-10	Description	Number of visits
Y89.-	Sequelae of other external causes	21
Y86.-	Sequelae of other accidents	10
Y85.-	Sequelae of transport accidents	8
X59.-	Exposure to unspecified factor	4
Y42.-	Hormones and their synthetic substitutes and antagonists, not elsewhere classified	4

Top five operations of in-patients in 2019

Department of Rehabilitation medicine

ICD-9-CM	Description	Number of operations
81.62	Fusion or refusion of 2-3 vertebrae	3
03.09	Other exploration and decompression of spinal canal	2
03.4	Excision or destruction of lesion of spinal cord or spinal meninges	2
31.42	Laryngoscopy and other tracheoscopy	2
80.51	Excision of intervertebral disc	2
81.08	Lumbar and lumbosacral fusion, posterior technique	2
81.91	Arthrocentesis	2

Top ten procedures of in-patients in 2019

Department of Rehabilitation medicine

ICD-9-CM	Description	Number of procedures
93.22	Ambulation and gait training	342
93.12	Other active musculoskeletal exercise	320
93.83	Occupational therapy	273
94.49	Other counselling	254
93.81	Recreation therapy	245
93.34	Diathermy	212
93.17	Other passive musculoskeletal exercise	199
93.27	Stretching of muscle or tendon	194
93.89	Rehabilitation, not elsewhere classified	162
93.39	Other physical therapy	136

Top ten principal diagnoses of in-patients in 2019

Department of Radiology

ICD-10	Description	Number of visits	Average Length of stay
C77.-	Secondary and unspecified malignant neoplasm of lymph nodes	160	3.36
C11.-	Malignant neoplasm of nasopharynx	142	2.54
C79.-	Secondary malignant neoplasm of other and unspecified sites	125	16.34
C73.-	Malignant neoplasm of thyroid gland	74	3.69
C02.-	Malignant neoplasm of other and unspecified parts of tongue	45	3.27
C32.-	Malignant neoplasm of larynx	42	2.45
C15.-	Malignant neoplasm of oesophagus	30	7.63
C78.-	Secondary malignant neoplasm of respiratory and digestive organs	27	5.78
C53.-	Malignant neoplasm of cervix uteri	26	10.35
C01.-	Malignant neoplasm of base of tongue	25	3.28

Top five external causes of in-patients in 2019

Department of Radiology

ICD-10	Description	Number of visits
Y83.-	Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	5
Y84.-	Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	5
Y40.-	Systemic antibiotics	2
Y43.-	Primarily systemic agents	2
Y46.-	Antiepileptics and antiparkinsonism drugs	2

Top five operations of in-patients in 2019
Department of Radiology

ICD-9-CM	Description	Number of operations
92.27	Implantation or insertion of radioactive elements	17
03.4	Excision or destruction of lesion of spinal cord or spinal meninges	8
81.63	Fusion or refusion of 4- 8 vertebrae	6
39.92	Injection of sclerosing agent into vein	5
81.05	Dorsal and dorsolumbar fusion, posterior technique	5

Top ten procedures of in-patients in 2019
Department of Radiology

ICD-9-CM	Description	Number of procedures
92.24	Teleradiotherapy using photons	601
99.25	Injection or infusion of cancer chemotherapeutic substance	418
92.28	Injection or instillation of radioisotopes	250
92.18	Total body scan	248
99.04	Transfusion of packed cells	116
93.39	Other physical therapy	80
87.03	Computerized axial tomography of head	63
57.94	Insertion of indwelling urinary catheter	56
96.6	Enteral infusion of concentrated nutritional substances	49
87.41	Computerized axial tomography of thorax	30

Top ten principal diagnoses of in-patients in 2019

Department of Psychiatry

ICD-10	Description	Number of visits	Average Length of stay
F31.-	Bipolar affective disorder	117	6.20
F20.-	Schizophrenia	105	8.58
F25.-	Schizoaffective disorders	83	5.18
F32.-	Depressive episode	63	9.48
F06.-	Other mental disorders due to brain damage and dysfunction and to physical disease	49	6.47
F33.-	Recurrent depressive disorder	49	7.45
F03.-	Unspecified dementia	29	2.97
F29.-	Unspecified nonorganic psychosis	16	4.06
F43.-	Reaction to severe stress, and adjustment disorders	12	6.67
F10.-	Mental and behavioural disorders due to use of alcohol	11	11.73

Top five external causes of in-patients in 2019

Department of Psychiatry

ICD-10	Description	Number of visits
Y49.-	Psychotropic drugs, not elsewhere classified	36
X61.-	Intentional self-poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	8
Y51.-	Drugs primarily affecting the autonomic nervous system	5
X70.-	Intentional self-harm by hanging, strangulation and suffocation	4
Y46.-	Antiepileptics and antiparkinsonism drugs	4
Y84.-	Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	4

Operations of in-patients in 2019

Department of Psychiatry

ICD-9-CM	Description	Number of procedures
51.23	Laparoscopic cholecystectomy	1
54.51	Laparoscopic lysis of peritoneal adhesions	1
66.62	Salpingectomy with removal of tubal pregnancy	1
74.1	Low cervical cesarean section	1

Top ten procedures of in-patients in 2019

Department of Psychiatry

ICD-9-CM	Description	Number of procedures
94.44	Other group therapy	455
94.27	Other electroshock therapy	371
93.83	Occupational therapy	144
94.35	Crisis intervention	37
94.03	Character analysis	29
89.14	Electroencephalogram	18
94.33	Behavior therapy	15
93.57	Application of other wound dressing	10
94.02	Administration of psychologic test	10
94.39	Other individual psychotherapy	10

Top ten principal diagnoses of in-patients in 2019

Department of Emergency Medicine

ICD-10	Description	Number of visits	Average Length of stay
J18.-	Pneumonia, organism unspecified	21	4.52
C34.-	Malignant neoplasm of bronchus and lung	20	4.75
C22.-	Malignant neoplasm of liver and intrahepatic bile ducts	14	4.64
N39.-	Other disorders of urinary system	14	7.29
C18.-	Malignant neoplasm of colon	11	5.73
C50.-	Malignant neoplasm of breast	11	6.64
J69.-	Pneumonitis due to solids and liquids	10	4.10
C78.-	Secondary malignant neoplasm of respiratory and digestive organs	7	3.14
C79.-	Secondary malignant neoplasm of other and unspecified sites	5	11.80
F05.-	Delirium, not induced by alcohol and other psychoactive substances	4	5.00

External causes of in-patients in 2019

Department of Emergency Medicine

ICD-10	Description	Number of visits
Y95.-	Nosocomial condition	13
Y42.-	Hormones and their synthetic substitutes and antagonists, not elsewhere classified	1
Y44.-	Agents primarily affecting blood constituents	1
Y45.-	Analgesics, antipyretics and anti-inflammatory drugs	1
Y83.-	Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	1
Y84.-	Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	1

Top five procedures of in-patients in 2019
Department of Emergency Medicine

ICD-9-CM	Description	Number of procedures
93.94	Respiratory medication administered by nebulizer	52
99.04	Transfusion of packed cells	24
96.6	Enteral infusion of concentrated nutritional substances	18
99.21	Injection of antibiotic	11
57.94	Insertion of indwelling urinary catheter	8

Top ten principal diagnoses of in-patients in 2019

Department of Her Majesty Cardiac Center

ICD-10	Description	Number of visits	Average Length of stay
I25.-	Chronic ischaemic heart disease	1,470	1.18
I42.-	Cardiomyopathy	155	1.17
I47.-	Paroxysmal tachycardia	130	1.10
Q21.-	Congenital malformations of cardiac septa	112	1.07
I48.-	Atrial fibrillation and flutter	106	1.25
I49.-	Other cardiac arrhythmias	104	1.21
I35.-	Nonrheumatic aortic valve disorders	102	2.54
I34.-	Nonrheumatic mitral valve disorders	72	1.22
I21.-	Acute myocardial infarction	61	3.21
I44.-	Atrioventricular and left bundle-branch block	59	1.66

Top ten external causes of in-patients in 2019

Department of Her Majesty Cardiac Center

ICD-10	Description	Number of visits
Y84.-	Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	59
Y71.-	Cardiovascular devices associated with adverse incidents	17
Y52.-	Agents primarily affecting the cardiovascular system	8
Y43.-	Primarily systemic agents	7
Y57.-	Other and unspecified drugs and medicaments	7
Y95.-	Nosocomial condition	6
Y51.-	Drugs primarily affecting the autonomic nervous system	5
Y40.-	Systemic antibiotics	4
Y44.-	Agents primarily affecting blood constituents	4
Y60.-	Unintentional cut, puncture, perforation or haemorrhage during surgical and medical care	4

Top ten operations of in-patients in 2019
Department of Her Majesty Cardiac Center

ICD-9-CM	Description	Number of operations
00.66	Percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy	1,009
37.34	Excision or destruction of other lesion or tissue of heart, other approach	263
37.87	Replacement of any type pacemaker device with dual-chamber device	100
39.50	Angioplasty or atherectomy of other non-coronary vessel(s)	42
37.94	Implantation or replacement of automatic cardioverter/defibrillator, total system [AICD]	35
35.96	Percutaneous valvuloplasty	30
35.52	Repair of atrial septal defect with prosthesis, closed technique	26
00.51	Implantation of cardiac resynchronization defibrillator, total system [CRT-D]	18
37.98	Replacement of automatic cardioverter/defibrillator pulse generator only	17
35.21	Replacement of aortic valve with tissue graft	11
37.86	Replacement of any type of pacemaker device with single-chamber device, rate responsive	11

Top ten procedures of in-patients in 2019
Department of Her Majesty Cardiac Center

ICD-9-CM	Description	Number of procedures
37.22	Left heart cardiac catheterization	1,682
88.56	Coronary arteriography using two catheters	1,655
36.07	Insertion of drug-eluting coronary artery stent(s)	870
00.40	Procedure on single vessel	694
00.24	Intravascular imaging of coronary vessels	659
89.52	Electrocardiogram	614
00.45	Insertion of one vascular stent	429
89.66	Measurement of mixed venous blood gases	375
89.65	Measurement of systemic arterial blood gases	306
00.46	Insertion of two vascular stents	305

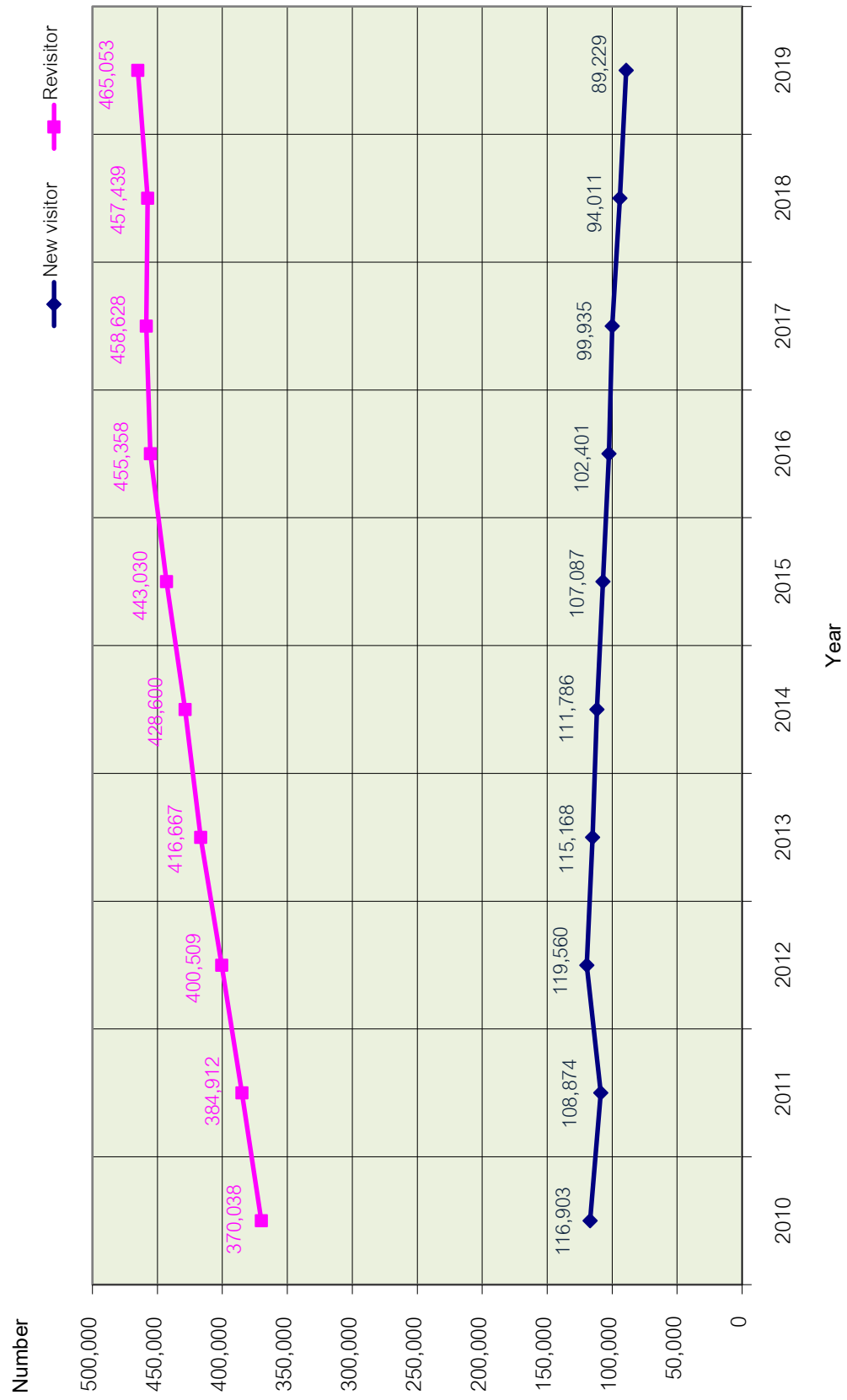
Diagnoses of in-patients in 2019
Department of Pharmacology

ICD-10	Description	Number of visits	Average Length of stay
Z00.-	General examination and investigation of persons without complaint or reported diagnosis	433	2.00

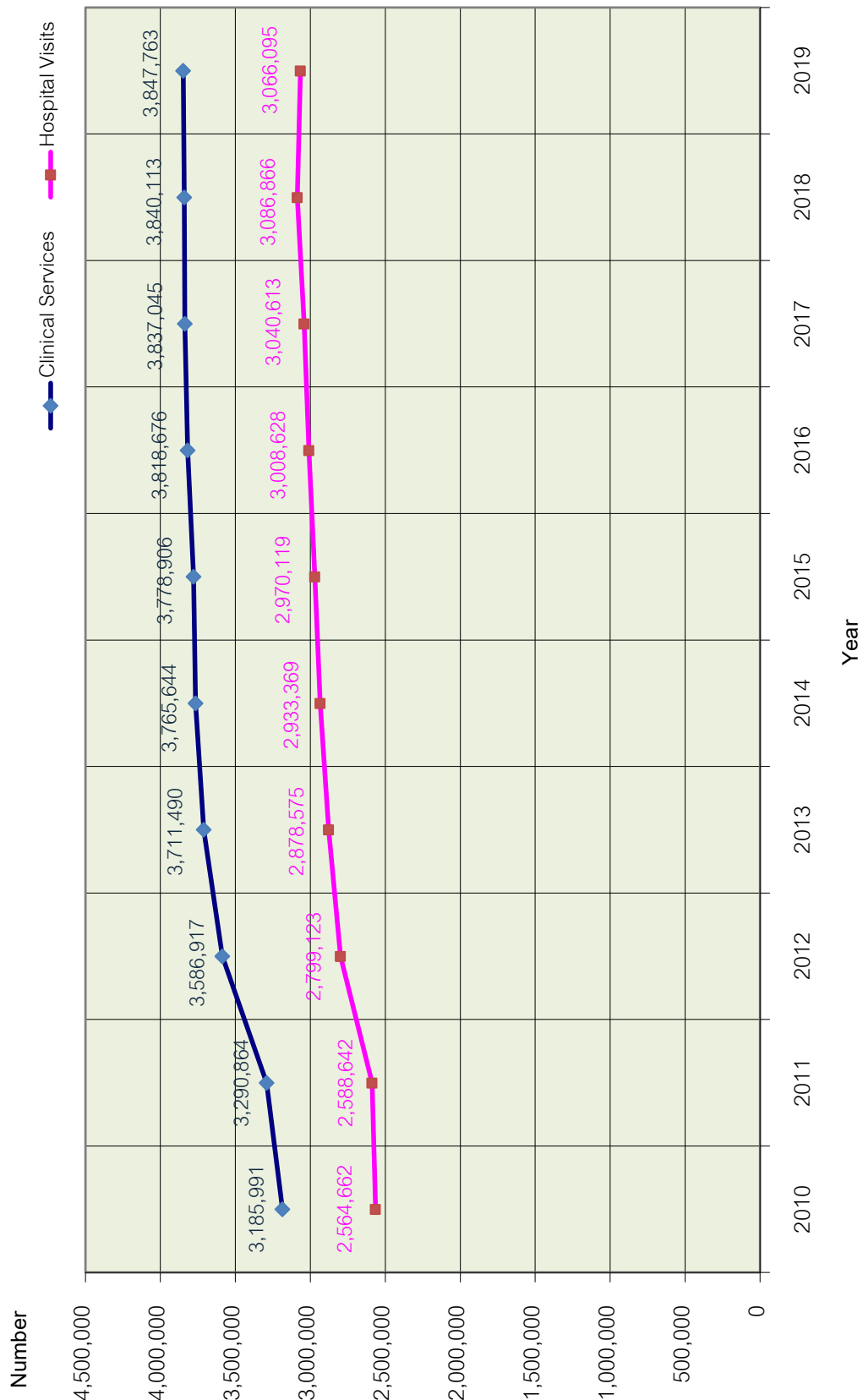
TRENDS

IN 2010 - 2019

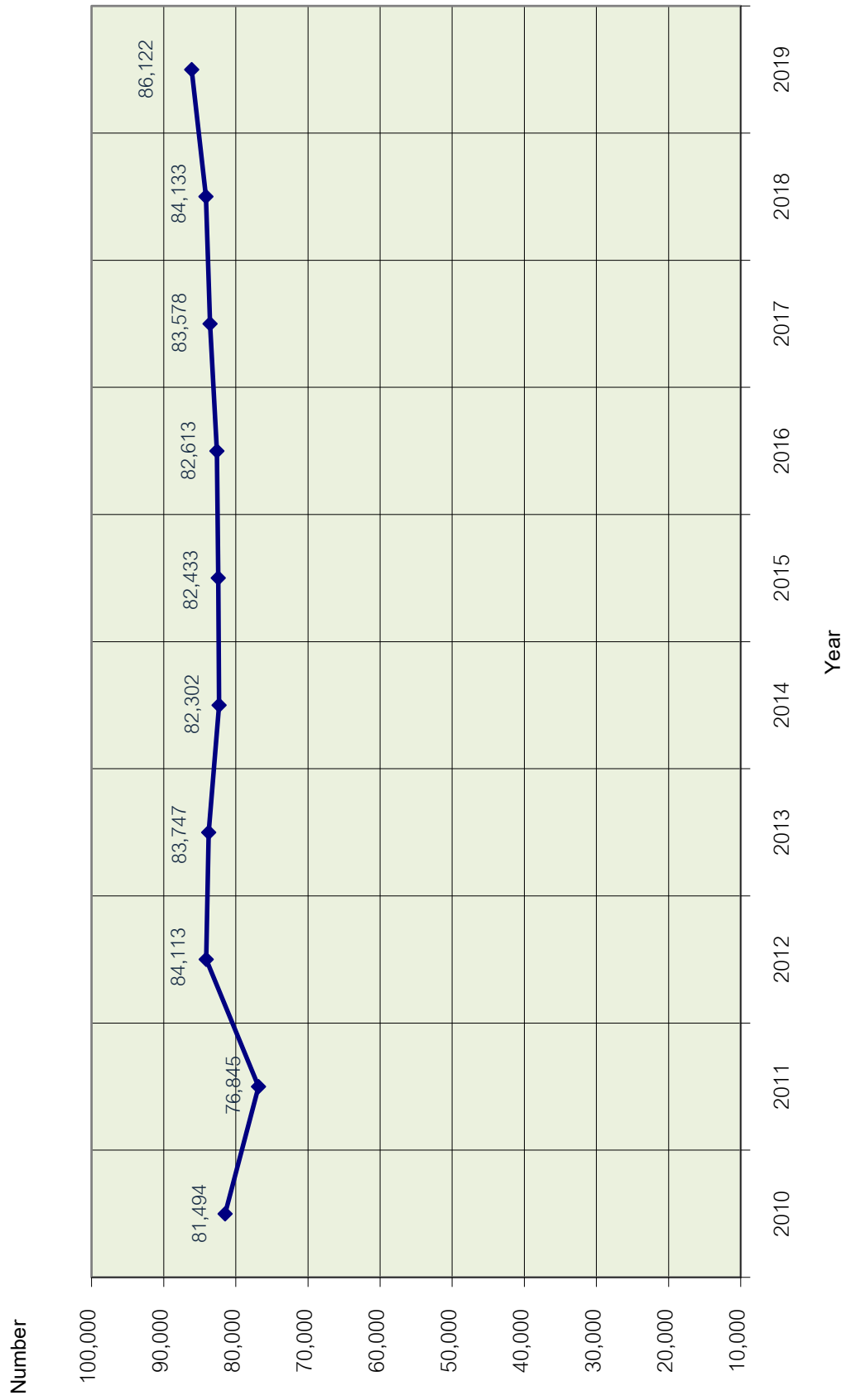
Trends in number of new visitor and revisitor of out-patients in 2010-2019



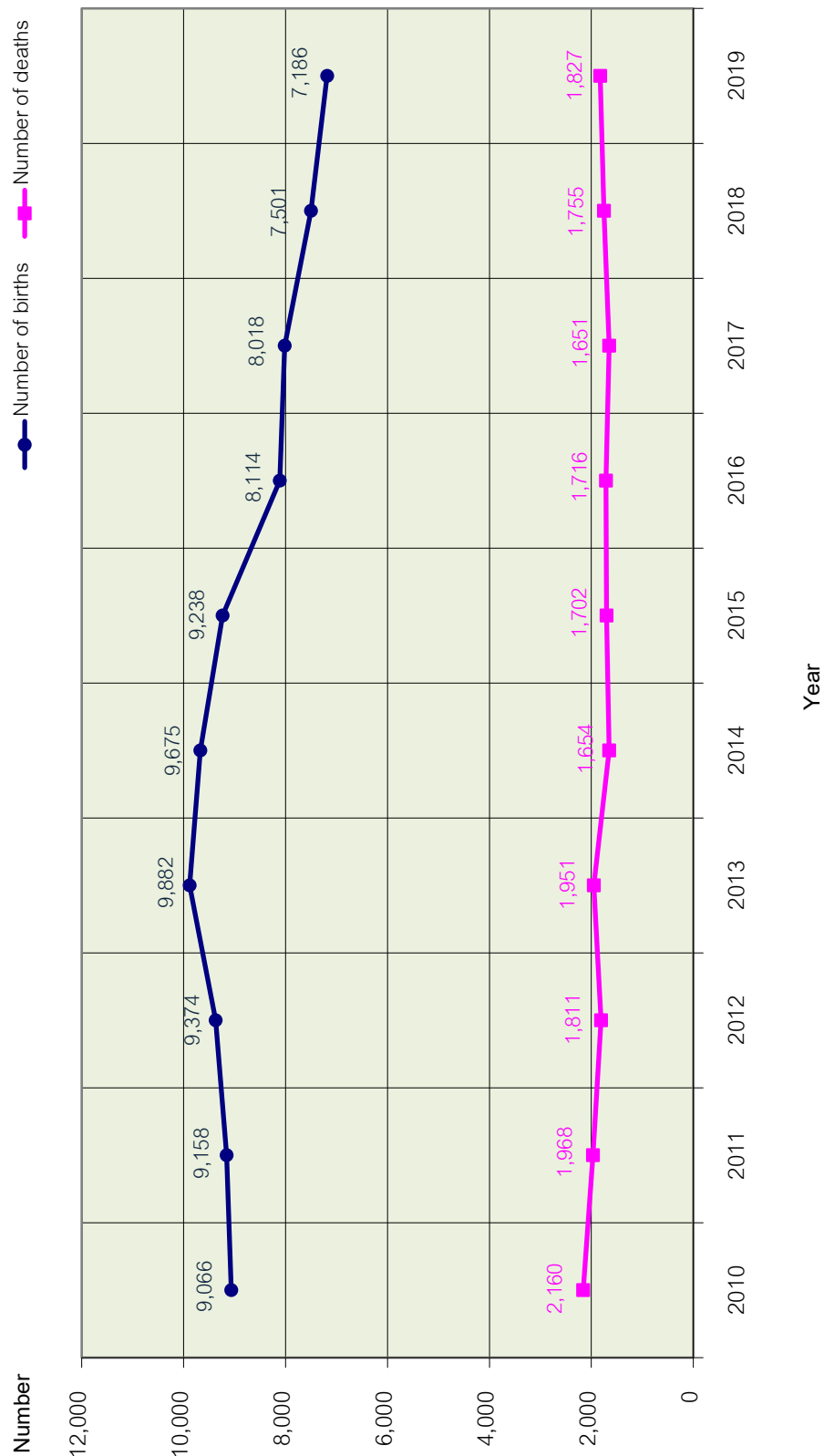
Trends in number of hospital visits and clinical services of out-patients in 2010-2019



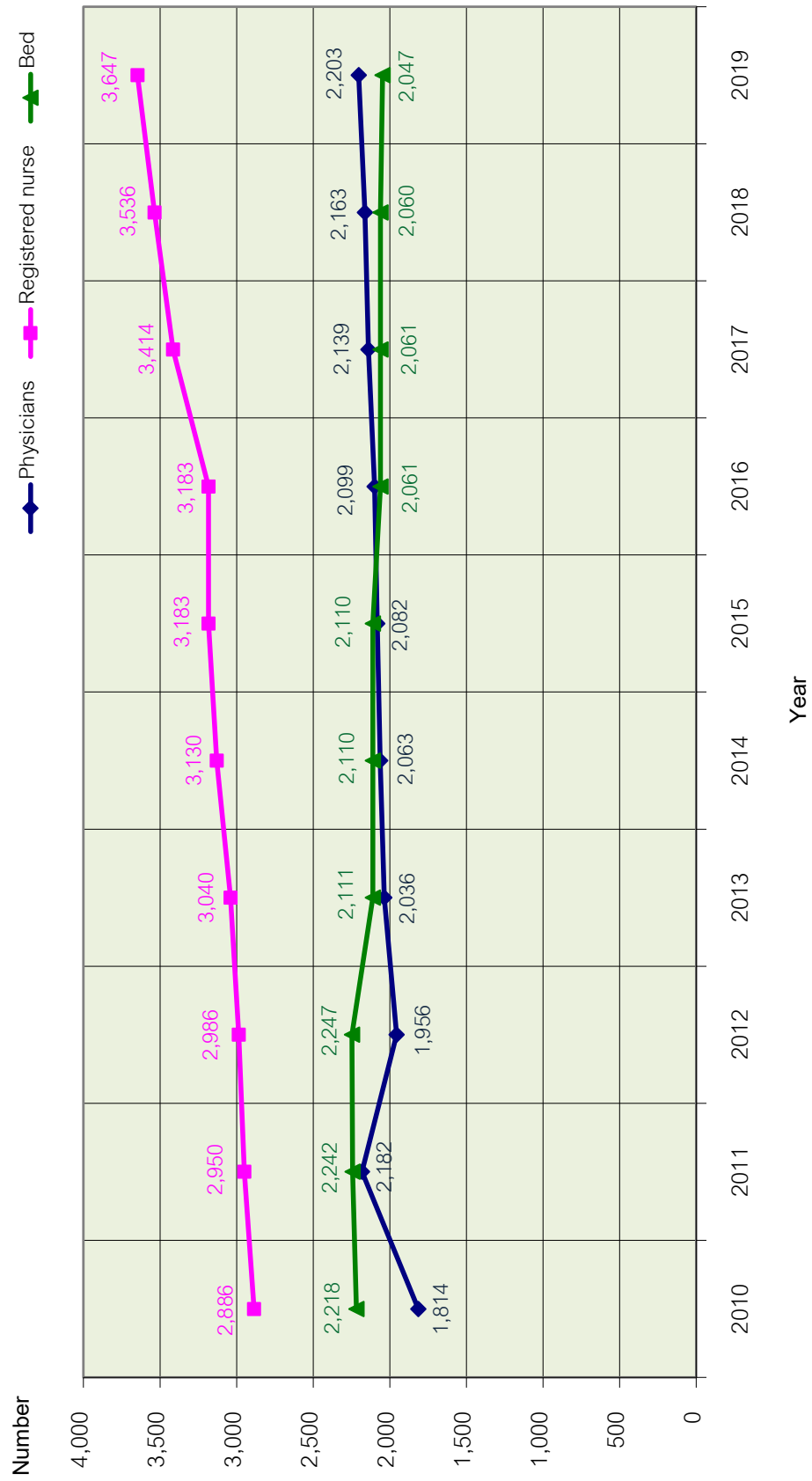
Trend in number of in-patients in 2010 - 2019



Trends in number of births and deaths of in-patients in 2010-2019



Trends in number of Physician, Registered nurse and Bed in 2010-2019



**OTHER MEDICAL
SERVICES
IN 2019**

Statistics of Department of Anatomy

Number of body donor in 2019, classified by gender, Siriraj Hospital

Month	Number of body donor		Total
	Male	Female	
January	340	659	999
February	341	608	949
March	352	628	980
April	262	522	784
May	311	562	873
June	311	599	910
July	516	441	957
August	331	631	962
September	335	664	999
October	334	585	919
November	259	470	729
December	276	465	741
Total	3,968	6,834	10,802

Department of Pediatrics

Number of out-patient in 2019, classified by division, Siriraj Hospital

Division / Clinic	Number of patients	Number of visit
1. General peditric clinic	19,961	37,463
2. Special clinic	13,558	30,895
3. Breastfeeding clinic	2,372	6,374
4. Well child clinic	2,478	2,482
5. Tonguetie (special clinic)	200	330
6. Child and Adolescent Psychiatry		
Psychiatry	1,680	4,930
7. Dermatology		
Dermatology	993	1,733
Skin and rheumatology	26	74
8. Pulmonology		
Respiratory Disease	798	1,566
9. Endocrinology & Metabolism		
Endocrinology	1,258	2,790
Diabetes mellitus	722	1,862
10. Nephrology		
Nephrology	989	2,496
Hemodialysis unit	4	186
One day service	413	651
11. Allergy & Clinical Immunology		
Allergy	2,518	5,128
Allergy (special clinic)	2,758	7,891
12. Neurology		
Neurology	1,231	2,376
13. Infectious Diseases		
Infectious Diseases	454	981
HIV	457	1,360

Number of out-patient in 2019, classified by division

Department of Pediatrics, Siriraj Hospital

Division / Clinic	Number of patients	Number of visit
14. Hematology & Oncology		
Hematology	2,151	6,892
Blood transfusion	264	1,629
Chemotherapy	268	2,349
Oncology	645	1,336
15. Cardiology		
Cardiology	2,300	3,437
16. Medical Genetics		
Genetics	809	1,072
Genetic bone diseases	25	26
Down syndrome	131	135
Birth defects	140	150
17. Newborn		
Newborn	493	1,126
Preterm	572	1,371
18. Gastroenterology and Hepatology		
Gastroenterology and Liver	363	1,003
19. Rheumatology		
Rheumatology	264	961
20. Nutrition		
Nutrition	409	558
21. Developmental and Behavioral Pediatrics		
Development	442	1,871
High risk	262	452
Development (follow-up)	645	1,186
Special needed child	42	50
22. Ambulatory Pediatrics		
Adolescent medicine	231	437
Teenage Mothers	264	592
Continuity of care	833	1,687
Total	64,423	139,888

Hospital length of stay by top 10 diagnosis in 2019

Department of Pediatrics, Sirirraj Hospital

ICD-10	Description	Number (%)*	Average Length of stay
L10.2	Pemphigus foliaceus	1 (0.01)	162.00
J84.0	Alveolar and parietoalveolar conditions	1 (0.01)	120.00
P77	Necrotizing enterocolitis of fetus and newborn	1 (0.01)	107.00
I62.0	Subdural haemorrhage (acute)(nontraumatic)	2 (0.02)	94.50
Q62.1	Atresia and stenosis of ureter	2 (0.02)	90.00
G06.2	Extradural and subdural abscess, unspecified	1 (0.01)	88.00
P07.0	Extremely low birth weight	35 (0.43)	83.51
M31.7	Microscopic polyangritis	1 (0.01)	80.00
J15.6	Pneumonia due to other aerobic Gram-negative bacteria	2 (0.02)	77.50
D43.9	Neoplasm of uncertain or unknown behaviour of central nervous system, unspecified	1 (0.01)	72.00

Note. * % of total discharges

Statistics of Department of Ophthalmology
Number of In-Patients 2019, classified by division, Siriraj Hospital

Division	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Division of Cornea and Refractive Surgery	24	35	36	38	47	35	35	32	37	33	22	32	406
Division of Glaucoma	25	33	22	34	31	21	24	23	22	24	26	17	302
Division of Neuro-Ophthalmology	1	1	3	1	3	1	0	1	0	1	0	1	13
Division of Orbit and Oculoplastic Surgery	23	22	19	16	18	26	23	19	16	23	30	20	255
Division of Pediatric Ophthalmology and Strabismus	27	17	28	31	25	25	21	22	28	33	15	13	285
Division of Refraction, Contact lens and Vision Rehabilitation	1	0	0	0	2	0	0	1	0	2	0	2	8
Division of Retina	53	61	65	59	85	71	58	64	84	65	56	54	775
Division of Uveitis	4	4	2	6	2	3	4	6	3	3	4	2	43
Complication infection	0	3	0	1	0	0	3	0	0	0	0	0	7
Complication re-procedure	12	11	6	7	6	8	4	11	10	12	7	11	105
Endophthalmitis	1	4	1	1	2	2	3	4	3	2	0	4	27
ENT	0	0	0	0	0	0	0	0	0	0	0	1	1
Lens	199	214	217	177	215	240	205	233	208	261	231	213	2,613
Post-operative care	0	0	0	0	0	0	0	1	0	0	0	0	1
Trauma	5	4	6	9	7	5	8	4	8	10	2	11	79
Other	1	2	0	2	0	1	1	2	3	0	3	0	15
Total	376	411	405	382	443	438	389	423	422	469	396	381	4,935

Statistics of Department of Psychiatry

Number of out-patients in 2019, classified by age and gender

Month	Number of patients								Total
	Male				Female				
	< 18 year	18 - 59 year	≥ 60 year	Total	< 18 year	18 - 59 year	≥ 60 year	Total	
January	563	747	282	1,592	217	1301	627	2,145	3,737
February	525	596	208	1,329	215	1038	483	1,736	3,065
March	520	765	277	1,562	207	1351	606	2,164	3,726
April	544	698	266	1,508	223	1243	599	2,065	3,573
May	589	651	243	1,483	225	1161	537	1,923	3,406
June	580	833	289	1,702	238	1314	630	2,182	3,884
July	479	576	243	1,298	197	1113	498	1,808	3,106
August	583	756	263	1,602	264	1305	568	2,137	3,739
September	459	714	245	1,418	208	1274	546	2,028	3,446
October	657	807	310	1,774	290	1362	649	2,301	4,075
November	511	752	276	1,539	245	1347	558	2,150	3,689
December	507	750	238	1,495	224	1286	577	2,087	3,582
Total (person)	1,613	2,454	1,009	5,076	671	4,062	2,154	6,887	11,963

Number of out-patients in 2019, classified by age and gender

General Psychiatry Unit, Siriraj Hospital

Month	Number of patients								Total
	Male				Female				
	< 18 year	18 - 59 year	≥ 60 year	Total	< 18 year	18 - 59 year	≥ 60 year	Total	
January	0	673	276	949	0	1,230	616	1,846	2,795
February	0	524	194	718	0	982	469	1,451	2,169
March	0	693	262	955	1	1,286	595	1,882	2,837
April	0	628	254	882	2	1,173	590	1,765	2,647
May	0	575	226	801	2	1,088	528	1,618	2,419
June	1	746	282	1,029	3	1,242	621	1,866	2,895
July	0	504	232	736	2	1,049	485	1,536	2,272
August	0	686	250	936	1	1,230	557	1,788	2,724
September	1	646	236	883	1	1,209	535	1,745	2,628
October	1	733	297	1,031	1	1,306	640	1,947	2,978
November	1	681	263	945	0	1,275	548	1,823	2,768
December	1	669	229	899	1	1,211	569	1,781	2,680
Total (person)	2	2,229	973	3,204	2	3,889	2,139	6,030	9,234

Number of out-patients in 2019, classified by patient's type
General Psychiatry Unit, Department of Psychiatry, Siriraj Hospital

Month	Number of visits								
	New visitor			Revistor			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	70	138	208	1,008	1,978	2,986	1,078	2,116	3,194
February	60	114	174	738	1,543	2,281	798	1,657	2,455
March	68	166	234	1,009	2,043	3,052	1,077	2,209	3,286
April	63	130	193	938	1,920	2,858	1,001	2,050	3,051
May	57	97	154	881	1,751	2,632	938	1,848	2,786
June	87	120	207	1,058	1,965	3,023	1,145	2,085	3,230
July	49	121	170	784	1,617	2,401	833	1,738	2,571
August	80	128	208	977	1,927	2,904	1,057	2,055	3,112
September	72	169	241	942	1,866	2,808	1,014	2,035	3,049
October	93	156	249	1,082	2,124	3,206	1,175	2,280	3,455
November	76	140	216	1,020	1,973	2,993	1,096	2,113	3,209
December	53	110	163	946	1,894	2,840	999	2,004	3,003
Total	828	1,589	2,417	11,383	22,601	33,984	12,211	24,190	36,401

Top five diagnoses of out-patients in 2019

General Psychiatry Unit, Department of Psychiatry, Siriraj Hospital

ICD10	Description	Number of visits
F32.-	Depressive episode	10,636
F31.-	Bipolar affective disorder	4,637
F20.-	Schizophrenia	4,529
F41.-	Other anxiety disorders	3,993
F34.-	Persistent mood (affective) disorders	2,417

Top five diagnoses of new patients in 2019

General Psychiatry Unit, Department of Psychiatry, Siriraj Hospital

ICD10	Description	Number of visits
F32.-	Depressive episode	758
F43.-	Reaction to severe stress, and adjustment disorder	267
F41.-	Other anxiety disorders	243
F51.-	Nonorganic sleep disorder	178
F34.-	Persistent mood (affective) disorders	174

Number of out-patients in 2019, classified by subservice
General Psychiatry Unit, Department of Psychiatry, Siriraj Hospital

Month	Number of services														
	General psychiatry			OPD Consultation			Geriatric psychiatry			Relaxation			Psychological test		
	Clinic						Clinic			Clinic			Clinic		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	638	1,181	1,819	4	11	15	281	614	895	24	92	116	5	10	15
February	492	914	1,406	4	14	18	191	448	639	19	85	104	11	18	29
March	657	1,281	1,938	4	12	16	260	600	860	24	88	112	13	13	26
April	608	1,139	1,747	3	12	15	258	599	857	12	77	89	12	10	22
May	559	1,032	1,591	4	10	14	224	530	754	14	79	93	15	16	31
June	716	1,188	1,904	2	5	7	279	608	887	30	87	117	16	21	37
July	465	987	1,452	2	9	11	223	482	705	21	76	97	13	9	22
August	654	1,236	1,890	6	8	14	257	533	790	18	91	109	10	15	25
September	615	1,219	1,834	8	12	20	230	539	769	22	91	113	14	19	33
October	719	1,290	2,009	4	10	14	298	637	935	20	100	120	15	13	28
November	649	1,245	1,894	5	8	13	263	547	810	13	83	96	26	8	34
December	612	1,152	1,764	1	5	6	229	567	796	24	73	97	7	9	16
Total	7,384	13,864	21,248	47	116	163	2,993	6,704	9,697	241	1,022	1,263	157	161	318

107

Number of out-patients in 2019, classified by patient's type

Division of Child and Adolescent Psychiatry, Department of Psychiatry, Siriraj Hospital

Month	Number of visits								
	New visitor			Revistor			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	60	19	79	701	383	1,084	761	402	1,163
February	40	20	60	643	351	994	683	371	1,054
March	37	16	53	631	340	971	668	356	1,024
April	41	21	62	720	381	1,101	761	402	1,163
May	40	17	57	755	384	1,139	795	401	1,196
June	29	15	44	750	376	1,126	779	391	1,170
July	45	20	65	609	310	919	654	330	984
August	40	37	77	747	418	1,165	787	455	1,242
September	27	24	51	572	335	907	599	359	958
October	53	29	82	807	486	1,293	860	515	1,375
November	40	20	60	657	390	1,047	697	410	1,107
December	31	28	59	640	352	992	671	380	1,051
Total	483	266	749	8,232	4,506	12,738	8,715	4,772	13,487

109

Top five diagnoses of out-patients in 2019

Division of Child and Adolescent Psychiatry, Department of Psychiatry, Siriraj Hospital

ICD10	Description	Number of visits
F90.-	Hyperkinetic Disorder	5,535
F81.-	Specific developmental disorders of scholastic skills	2,162
F32.-	Depressive episode	1,383
F98.-	Other behavioural and emotional disorders with onset usually occurring in childhood and adolescence	701
F79.-	Unspecified mental retardation	618

Top five diagnoses of New patients in 2019

Division of Child and Adolescent Psychiatry, Department of Psychiatry, Siriraj Hospital

ICD10	Description	Number of visits
F90.-	Hyperkinetic Disorder	287
F32.-	Depressive episode	97
Z03.-	Medical observation and evaluation for suspected diseases and	90
F98.-	Other behavioural and emotional disorders with onset usually occurring in childhood and adolescence	69
F81.-	Specific developmental disorders of scholastic skills	50

Number of out-patients in 2019, classified by gender

Psychiatric Rehabilitation and Community Unit, Department of Psychiatry, Siriraj Hospital

Month	Number of visits		Total
	Male	Female	
January	302	270	572
February	264	180	444
March	296	186	482
April	244	171	415
May	274	214	488
June	254	183	437
July	248	227	475
August	334	320	654
September	356	278	634
October	320	247	567
November	318	219	537
December	257	170	427
Total	3,467	2,665	6,132

Top five diagnoses in 2019

Psychiatric Rehabilitation and Community Unit, Department of Psychiatry, Siriraj Hospital

ICD10	Description	Number of visits
F20.-	Schizophrenia	3,046
F84.-	Unspeciied mental retardation	632
F32.-	Depressive episode	384
F79.-	Unspeciied mental retardation	370
F06.-	Bipolar affective disorder	326

Number of out-patients in 2019, classified by patient's type
Psychiatric Rehabilitation and Community Unit, Department of Psychiatry, Siriraj Hospital

Month	Number of services									Total
	Transcranial Magnetic Stimulation Patients			Nicotine Rehabilitation Patients			Alcoholic Rehabilitation Patients			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
January	0	1	1	12	1	13	0	0	0	14
February	0	0	0	19	2	21	3	0	3	24
March	9	6	15	26	1	27	3	0	3	45
April	0	0	0	15	1	16	4	0	4	20
May	0	0	0	26	4	30	3	0	3	33
June	0	0	0	13	3	16	8	0	8	24
July	10	23	33	17	3	20	1	0	1	54
August	9	37	46	18	4	22	3	0	3	71
September	15	6	21	18	5	23	5	0	5	49
October	12	7	19	16	2	18	2	0	2	39
November	10	14	24	21	3	24	5	0	5	53
December	7	11	18	15	2	17	4	0	4	39
Total	72	105	177	216	31	247	41	0	41	465

Statistics of Department of Microbiology
Number of Laboratory Test Services in 2019, Siriraj Hospital

Customers	Number of services												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Siriraj hospital	29,399	26,570	31,245	26,752	29,589	28,469	31,078	29,508	30,332	30,782	28,225	26,950	348,899
Other hospitals	1,029	909	1,058	812	958	909	1,321	974	1,148	1,089	1,048	781	12,036
Total	30,428	27,479	32,303	27,564	30,547	29,378	32,399	30,482	31,480	31,871	29,273	27,731	360,935

Number of services: Bacteriology Laboratory in 2019

Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Culture, identification (aerobe) & susceptibility test	11,132	10,455	11,951	10,963	11,510	11,013	11,749	11,461	12,056	12,264	11,291	10,905	136,750
2. Culture, identification (anaerobe)	105	82	98	79	75	112	136	114	84	83	68	76	1,112
3. Culture from colony/positive media susceptibility test	2	0	0	3	0	2	1	1	0	0	0	0	9
4. Culture from colony/positive media, identification	2	1	1	7	0	1	2	3	1	0	3	1	22
5. <i>Clostridioides</i> (formerly <i>Clostridium</i>) <i>difficile</i> : toxin gene	243	234	320	295	277	242	372	249	240	272	259	227	3,230
6. <i>Helicobacter pylori</i> : culture	1	0	0	0	0	2	1	0	1	0	0	0	5
7. <i>Neisseria meningitidis</i> group A: antigen in CSF	10	4	5	8	8	5	13	10	12	14	6	12	107
8. <i>Neisseria meningitidis</i> group B/ <i>Escherichia coli</i> K1: antigen in CSF	10	4	4	8	8	6	11	11	12	14	6	12	106
9. <i>Neisseria meningitidis</i> group C: antigen in CSF	10	4	4	8	8	5	9	9	12	14	6	11	100
10. <i>Neisseria meningitidis</i> group Y/W135: antigen in CSF	10	4	4	8	8	5	9	9	12	14	6	10	99
11. <i>Streptococcus agalactiae</i> : antigen in CSF	10	4	4	8	8	6	9	9	12	14	6	12	102
12. <i>Streptococcus pneumoniae</i> : antigen in CSF	10	4	4	8	8	6	9	11	12	14	6	12	104
13. Gram staining*	39	17	43	24	31	25	47	30	31	18	21	22	348
14. Modified acid fast staining*	93	93	117	73	106	85	138	77	78	88	86	101	1,135
Total	11,677	10,906	12,555	11,492	12,047	11,515	12,506	11,994	12,563	12,809	11,764	11,401	143,229

Note: *only that not included in bacterial culture

Number of services: Mycobacteriology & Mycology Laboratory in 2019

Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Acid fast staining	369	292	382	342	288	264	524	395	438	370	336	341	4,341
2. Mycobacteria: PROFILE 1*	540	451	534	407	494	465	478	454	449	509	446	401	5,628
3. Mycobacteria: PROFILE 2*	821	740	940	786	816	752	1,079	901	870	990	873	811	10,379
4. Mycobacteria: PROFILE 3*	47	33	52	33	32	43	48	40	57	38	42	46	511
5. Mycobacteria: molecular identification & conventional susceptibility test (from colony or positive media)	4	2	4	3	1	7	2	5	8	5	3	4	48
6. Mycobacteria: antimicrobial susceptibility test (2 nd line drugs)	0	0	0	0	0	0	0	0	1	0	0	0	1
7. Susceptibility for slow growing non-tuberculous mycobacteria**	8	7	3	3	4	5	4	3	8	6	13	5	69
8. Susceptibility for <i>Mycobacterium tuberculosis</i> (12 drugs)**	0	0	0	1	0	0	0	0	0	0	0	0	1
9. Susceptibility for rapid growing non-tuberculous mycobacteria**	7	4	6	7	8	6	8	6	9	12	8	7	88
10. Direct examination for fungi: Gram stain	0	2	3	2	1	0	1	0	3	5	0	0	17
11. Direct examination for fungi: India ink preparation	10	11	8	6	7	3	8	5	6	8	5	5	82
12. Direct examination for fungi: KOH preparation	86	77	105	71	60	75	103	54	77	79	71	56	914
13. Fungal culture and identification	1,060	931	1,208	1,026	947	1,009	1,340	1,127	1,150	1,177	1,026	974	12,975
14. Susceptibility test for fungi	19	15	14	23	12	15	13	13	21	22	25	18	210
15. <i>Aspergillus</i> : galactomannan antigen detection	124	124	235	156	222	183	259	140	141	151	185	172	2,092
16. <i>Cryptococcus</i> : antigen and titer	38	24	35	34	30	25	36	24	32	36	26	31	371
17. <i>Cryptococcus</i> : antigen	29	31	37	20	35	37	53	26	24	38	21	25	376
18. Fungal molecular identification	3	9	5	6	4	3	4	8	7	11	8	5	73
Total	3,165	2,753	3,571	2,926	2,961	2,892	3,960	3,201	3,301	3,457	3,088	2,901	38,176

Note: * Each profile consists of acid-fast stain, culture, identification and susceptibility test, but in PROFILE 2, the direct PCR test and automated susceptibility test are added. For PROFILE 3, the molecular susceptibility test for isoniazid and rifampicin is added.

** Additional tests that can be requested separately from PROFILES 1, 2 and 3

Number of services: Virology Laboratory in 2019
Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Adenovirus: antigen	0	0	0	0	1	1	1	2	2	1	0	1	9
2. <i>Chlamydia trachomatis</i> : antigen	0	0	2	1	0	0	0	1	0	0	0	0	4
3. <i>Chlamydia trachomatis</i> : isolation	1	1	2	1	0	0	4	1	0	0	0	0	10
4. Cytomegalovirus: antigen	4	0	0	2	5	3	4	3	1	3	7	2	34
5. Cytomegalovirus: isolation	40	24	43	31	36	38	41	26	35	49	32	43	438
6. Epstein-Barr virus: antibody IgA	1	0	0	4	0	0	2	1	2	1	1	1	13
7. Epstein-Barr virus: antibody IgG	51	44	51	46	51	41	53	44	42	60	27	26	536
8. Enterovirus 71: antigen	5	1	4	0	2	2	5	2	3	0	6	1	31
9. Enterovirus: antigen	5	2	3	0	2	2	9	2	2	1	6	1	35
10. Herpes simplex virus (HSV): antigen	89	71	84	63	79	59	87	64	64	72	77	63	872
11. Herpes simplex virus (HSV): Giemsa stain	53	45	47	27	33	30	46	42	45	42	38	26	474
12. Herpes simplex virus (HSV): isolation	10	0	0	5	2	3	1	1	8	5	3	3	41
13. Influenza A virus: antigen	16	16	26	17	16	10	17	18	19	26	18	18	217
14. Influenza A and B virus: antigen (rapid test)	307	312	550	304	186	204	360	326	526	482	296	261	4,114
15. Influenza B virus: antigen	15	15	22	18	15	10	18	19	17	27	17	14	207
16. Measles virus: antigen	2	1	3	1	0	2	4	4	3	1	1	1	23
17. Parainfluenza virus 2: antigen	1	0	0	0	0	0	0	0	1	0	0	0	2
18. Parainfluenza virus 3: antigen	1	0	0	1	0	0	0	0	0	0	0	0	2
19. Parainfluenza virus 1: antigen	1	0	0	0	0	0	0	0	1	0	0	0	2
20. Rotavirus: antigen	109	84	107	82	97	79	113	85	117	126	120	105	1,224
21. Respiratory syncytial virus (RSV): antigen	89	67	103	55	45	48	82	56	126	84	58	75	888
22. Respiratory viruses: antigen PROFILE*	88	97	103	69	64	72	168	139	154	115	110	78	1,257
23. Varicella zoster virus (VZV): antigen	31	13	35	17	20	13	33	25	22	28	40	20	297
24. Varicella zoster virus (VZV): Giemsa stain	0	0	3	1	3	1	7	2	3	2	4	1	27
25. Zika virus: isolation	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	920	793	1,188	745	657	618	1,055	863	1,193	1,125	861	740	10,758

Note: * Include of influenza A & B viruses, Parainfluenza 1-3 viruses, RSV, Adenovirus

Number of services: Serology Laboratory in 2019

Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Cytomegalovirus (CMV): antibody IgG	55	45	38	49	60	56	54	65	53	78	44	40	637
2. Cytomegalovirus (CMV): antibody IgM	13	6	8	12	12	22	20	15	21	25	16	17	187
3. Dengue virus: antibody IgG & IgM	103	97	79	78	54	87	166	200	191	206	220	140	1,621
4. Dengue virus: NS1 antigen	101	95	80	79	45	87	202	206	215	259	267	141	1,777
5. Epstein-Barr virus (EBV): antibody IgM	24	24	29	36	28	29	31	22	31	32	26	23	335
6. Hepatitis A virus (HAV): antibody IgG	83	89	107	85	102	92	93	87	113	116	99	61	1,127
7. Hepatitis A virus (HAV): antibody IgM	39	51	47	44	63	53	53	46	58	63	53	37	607
8. Hepatitis B virus (HBV): anti-HBc antibody	207	196	256	200	478	195	225	217	195	278	178	188	2,813
9. Hepatitis B virus (HBV): anti-HBc antibody IgM	12	20	19	14	25	25	24	28	32	23	20	25	267
10. Hepatitis B virus (HBV): anti-HBe antibody	36	34	45	23	36	39	34	41	36	45	29	33	431
11. Hepatitis B virus (HBV): anti-HBs antibody	1,087	922	1,154	869	1,383	1,320	1,055	1,046	1,141	1,004	985	1,132	13,098
12. Hepatitis B virus (HBV): antigen HBe	106	93	125	81	112	116	102	120	96	96	95	80	1,222
13. Hepatitis B virus (HBV): antigen HBs	3,613	3,228	3,480	2,906	3,659	3,653	3,332	3,456	3,319	3,295	3,088	3,041	40,070
14. Hepatitis B virus (HBV): antigen HBs quantitative	55	34	49	36	49	63	69	86	82	74	87	74	758
15. Hepatitis C virus (HCV): anti-HCV antibody	2,022	1,757	2,097	1,661	1,916	2,083	1,916	2,036	1,943	1,972	1,738	1,592	22,733
16. Hepatitis D virus (HDV): anti-HDV antibody	2	1	3	1	1	1	2	1	3	4	2	0	21
17. Hepatitis E virus (HEV): antibody IgG	17	25	17	26	32	29	27	23	31	34	23	14	298
18. Hepatitis E virus (HEV): antibody IgM	20	31	25	30	46	36	33	36	37	48	36	23	401
19. Herpes simplex virus (HSV): antibody IgG	41	34	20	31	34	37	29	50	37	54	27	31	425
20. Herpes simplex virus (HSV): antibody IgM	10	10	11	9	10	14	13	14	19	16	11	6	143

Number of services: Serology Laboratory in 2019 (cont.)

Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
21. Human immuno-deficiency virus 1 (HIV-1): anti-HIV (ELISA)	4,116	3,752	4,071	3,473	3,807	3,701	3,763	3,863	3,708	3,625	3,373	3,034	44,286
22. Human immuno-deficiency virus 1 (HIV-1): anti-HIV (rapid)	244	184	221	182	197	210	251	211	221	221	201	189	2,532
23. Human immuno-deficiency virus 1 (HIV-1): antigen p24	6	8	6	4	10	9	7	8	13	15	8	8	102
24. Human immuno-deficiency virus 1 (HIV-1): antigen p24 neutralization	0	0	0	0	0	0	0	0	0	0	0	1	1
25. Measles virus: antibody IgG	29	23	16	19	18	26	38	42	38	34	34	20	337
26. Measles virus: antibody IgM	29	21	14	13	8	12	38	40	37	32	32	17	293
27. Mumps virus: antibody IgG	5	6	3	10	10	16	11	10	11	16	11	8	117
28. Mumps virus: antibody IgM	3	1	2	4	1	2	5	3	5	8	4	2	40
29. <i>Mycoplasma pneumoniae</i> : antibody	22	13	28	21	17	9	28	16	17	25	30	30	256
30. Rubella virus: antibody IgG	54	49	35	31	33	48	46	49	52	44	43	30	514
31. Rubella virus: antibody IgM	21	17	7	8	8	6	28	24	28	24	19	15	205
32. TORCH: antibody IgG PROFILE*	35	18	30	35	40	29	30	37	34	48	22	38	396
33. TORCH: antibody IgM PROFILE*	35	19	30	35	39	31	28	36	34	48	22	38	395
34. <i>Toxoplasma</i> : antibody IgG	15	9	9	13	6	11	10	19	15	19	12	14	152
35. <i>Toxoplasma</i> : antibody IgM	9	4	6	6	3	5	8	7	11	10	9	13	91
36. Varicella zoster virus (VZV): antibody IgG	66	101	60	103	431	278	60	71	119	143	131	345	1,908
37. Varicella zoster virus (VZV): antibody IgM	9	18	10	13	9	7	8	11	11	14	2	6	118
38. Zika virus Antibody IgG	29	11	14	12	22	15	11	15	17	19	21	15	201
39. Zika virus Antibody IgM	29	11	15	15	22	15	14	17	17	19	22	15	211
Total	12,402	11,057	12,266	10,267	12,826	12,467	11,864	12,274	12,041	12,086	11,040	10,536	141,126

Note: * Include of Toxoplasma, Rubella virus, Cytomegalovirus, Herpes simplex virus

Number of services: Molecular Microbiology Laboratory in 2019

Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Adenovirus: DNA detection	0	4	6	3	3	3	3	0	1	0	0	2	25
2. Adenovirus: viral load	4	2	3	3	1	0	5	8	0	2	1	11	40
3. BK virus: DNA detection	0	0	7	1	3	4	5	2	4	4	0	0	30
4. BK virus: viral load	146	119	182	122	113	112	227	114	122	142	127	133	1,659
5. Chikungunya virus: RNA detection	3	2	2	1	3	4	12	37	68	133	190	101	556
6. Chikungunya virus:viral load	0	0	0	1	0	0	0	0	0	1	1	0	3
7. Chlamydia trachomatis: DNA detection	19	17	17	13	12	18	31	6	20	17	17	23	210
8. <i>Chlamydia pneumoniae</i> : DNA detection	1	0	0	0	0	0	0	0	1	1	0	0	3
9. Coxsackie virus: viral load	0	0	0	1	1	0	1	0	0	0	0	0	3
10. Cytomegalovirus (CMV): DNA detection	25	23	33	27	23	23	21	21	23	20	21	27	287
11. Cytomegalovirus (CMV): viral load	104	108	185	147	133	151	248	172	137	140	121	172	1,818
12. Dengue virus: RNA detection	10	3	7	8	9	2	10	9	13	14	7	7	99
13. Dengue virus: viral load	1	0	0	0	0	1	1	0	0	0	0	0	3
14. Enterohemorrhagic <i>E. coli</i> (EHEC): DNA detection	0	0	0	3	0	0	0	0	0	0	0	0	3
15. Enterovirus 71: RNA detection	13	4	10	9	2	7	9	5	7	2	7	6	81
16. Enterovirus: RNA detection	12	8	21	12	3	8	18	9	7	11	6	9	124
17. Epstein-Barr virus (EBV): DNA detection	14	12	21	13	12	14	10	7	13	12	11	16	155
18. Epstein-Barr virus (EBV): viral load	10	11	16	10	7	15	26	11	20	9	13	19	167
19. Gastroenteritis DNA/RNA detection panel	3	2	2	4	10	4	2	2	5	8	2	6	50
20. Herpes simplex virus (HSV): DNA detection	30	26	32	23	12	20	21	16	24	20	26	26	276

Number of services: Molecular Microbiology Laboratory in 2019 (cont.)

Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
21. Human herpes virus 6 (HHV-6): DNA detection	0	0	0	0	0	0	0	1	0	0	0	0	1
22. Human immunodeficiency virus 1 (HIV-1):	6	4	8	5	8	8	13	11	9	9	6	5	92
23. Human immunodeficiency virus 1 (HIV-1): RNA/DNA detection	7	13	14	10	9	5	23	24	12	12	22	8	159
24. Human immunodeficiency virus 1 (HIV-1): viral load	423	320	491	483	470	396	606	400	339	378	323	310	4,939
25. Human immunodeficiency virus 2 (HIV-2): RNA detection	0	0	0	1	0	0	0	1	1	0	0	0	3
26. Human metapneumovirus: RNA detection	0	0	0	0	0	0	0	0	0	1	1	0	2
27. Human papilloma virus (HPV): DNA detection	34	26	29	20	15	21	31	22	23	20	36	34	311
28. Human papilloma virus (HPV): genotype	16	18	22	12	11	12	13	7	19	5	10	14	159
29. Influenza A virus (H1, H3, pandemic 2009) /Influenza B/RSV: RNA detection	170	182	274	159	133	112	171	152	215	273	192	161	2,194
30. Influenza A virus: RNA detection	9	15	17	19	20	21	14	12	27	25	14	23	216
31. Influenza B virus: RNA detection	8	14	17	22	19	21	9	12	22	19	14	19	196
32. Japanese encephalitis virus (JEV): RNA detection	2	1	6	3	3	2	2	0	2	1	1	2	25
33. JC virus and BK virus: DNA detection	0	1	2	0	0	1	0	0	0	0	0	2	6
34. JC virus: DNA detection	0	2	2	2	3	0	1	1	0	0	0	1	12
35. JC virus: viral load	0	0	1	2	2	0	2	3	0	0	0	2	12
36. <i>Legionella pneumophila</i> : DNA detection	0	0	0	1	0	0	1	0	1	1	0	1	5
37. <i>Leptospira</i> : DNA detection	0	1	2	0	0	1	2	1	3	2	0	0	12
38. Measles virus: RNA detection	1	1	0	0	1	1	1	1	0	2	1	1	10

Number of services: Molecular Microbiology Laboratory in 2019 (cont.)

Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
39. Meningitis DNA/RNA detection panel	18	22	22	16	22	16	25	15	13	19	20	15	223
40. Mump: RNA detection	0	0	0	0	0	0	0	1	0	0	0	0	1
41. Mycobacteria: direct PCR for <i>M. tuberculosis</i> (no culture)	36	41	36	33	34	37	47	46	45	37	28	25	445
42. Mycobacteria: direct PCR for <i>M. tuberculosis</i> (no culture)	3	2	4	5	7	1	8	4	8	4	15	3	64
43. Mycobacteria: direct PCR for <i>M. tuberculosis</i> /non-tuberculous mycobacteria (NTM) (no culture)	3	0	6	1	0	4	4	1	0	0	0	2	21
44. <i>Mycoplasma pneumoniae</i> : quantitative DNA detection	1	2	1	0	0	1	0	0	1	0	0	0	6
45. <i>Neisseria gonorrhoeae</i> : DNA detection	14	16	14	10	12	13	25	8	17	11	16	23	179
46. Parvovirus B19: DNA detection	4	3	5	9	4	9	12	6	5	10	6	1	74
47. Parvovirus B19: viral load	2	1	5	0	1	2	8	2	2	1	0	1	25
48. Rabies virus: RNA detection	1	1	0	0	0	0	0	0	0	0	0	0	2
49. Respiratory pathogens: RNA/DNA detection	39	30	66	66	42	40	52	76	82	110	84	84	771
50. <i>Rickettsia</i> spp.: DNA detection	4	1	4	2	0	1	2	4	3	4	6	2	33
51. Rubella virus: RNA detection	0	2	3	1	1	1	2	0	1	0	0	4	15
52. Varicella zoster virus (VZV): DNA detection	16	19	19	12	10	13	8	10	13	12	11	14	157
53. Viruses: molecular epidemiology	6	1	5	2	0	2	5	1	1	0	1	1	25
54. Zika virus: RNA detection	68	36	45	34	50	38	73	60	52	60	76	44	636
Total	1,286	1,116	1,664	1,331	1,224	1,165	1,810	1,301	1,381	1,552	1,433	1,360	16,623

Number of services: Environmental Microbiology Laboratory in 2019

Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Air examination: total aerobic microbial count	0	4	0	0	9	0	48	16	0	12	6	0	95
2. Air examination: total fungal count	0	4	4	0	9	0	48	16	0	12	6	0	99
3. Bacteria: endotoxin test	4	4	10	6	0	0	3	0	0	0	0	3	30
4. Bacteria: molecular epidemiology	0	0	0	3	0	0	0	0	0	0	2	0	5
5. Bacteria: molecular identification	50	33	46	41	36	38	52	49	44	44	58	35	526
6. Bacteria: sterility test	344	313	292	300	331	288	361	331	419	442	351	290	4,062
7. Bacteria: sterility test (additional filtration)	12	13	15	14	15	12	22	21	13	13	19	14	183
8. Food examination: <i>Bacillus cereus</i> detection	15	13	28	15	11	21	18	13	24	19	21	21	219
9. Food examination: <i>Clostridium perfringens</i> detection	6	4	2	4	4	2	6	4	7	6	6	6	57
10. Food examination: coliform count	11	9	20	9	9	10	19	9	9	11	11	14	141
11. Food examination: <i>Escherichia coli</i> count	7	7	17	7	9	13	18	7	10	7	7	13	122
12. Food examination: <i>Salmonella</i> spp. detection	11	9	17	9	12	18	12	9	16	11	11	17	152
13. Food examination: <i>Staphylococcus aureus</i> detection	16	13	28	15	11	21	17	13	28	19	21	21	223
14. Food examination: total aerobic microbial count	19	17	39	21	13	29	16	17	40	27	35	25	298
15. Food examination: <i>Vibrio cholerae</i> detection	2	2	2	2	4	2	2	2	5	2	2	2	29
16. Herb examination: <i>Clostridium</i> spp. detection	26	26	18	18	16	9	18	15	15	0	15	18	194
17. Herb examination: Enterobacteria count	24	20	17	17	14	7	22	11	15	0	15	14	176
18. Herb examination: <i>Escherichia coli</i> detection	26	26	18	18	16	9	18	15	15	0	15	18	194

Number of services: Environmental Microbiology Laboratory in 2019 (cont.)

Department of Microbiology, Siriraj Hospital

Test item	Number of Test												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
19. Herb examination: <i>Pseudomonas aeruginosa</i> detection	9	8	2	4	13	8	14	8	11	3	11	7	98
20. Herb examination: <i>Salmonella</i> spp. detection	26	26	18	18	16	9	18	15	16	0	15	18	195
21. Herb examination: <i>Staphylococcus aureus</i> detection	9	8	2	4	13	8	21	8	10	3	11	7	104
22. Herb examination: total aerobic microbial count	35	34	20	22	29	17	30	23	26	3	26	25	290
23. Herb examination: total fungal count	35	34	37	22	29	17	42	23	26	3	26	25	319
24. Medical products examination: antimicrobial activity test	0	6	0	0	0	0	0	0	0	1	1	0	8
25. Medical products examination: endotoxin test	0	0	7	2	0	0	0	0	0	0	0	0	9
26. Medical products examination: sterility test	50	67	39	25	50	0	78	58	83	16	175	32	673
27. Water examination: coliform count	61	39	90	54	42	43	82	43	43	48	54	46	645
28. Water examination: endotoxin test	28	8	25	12	8	24	35	8	13	20	21	11	213
29. Water examination: <i>Escherichia coli</i> count	61	39	74	54	42	43	89	43	41	48	54	46	634
30. Water examination: specific pathogen detection	5	5	75	5	5	7	8	5	5	5	5	7	137
31. Water examination: total aerobic microbial count	86	63	97	82	66	66	87	67	67	67	87	58	893
Total	978	854	1,059	803	832	721	1,204	849	1,001	842	1,087	793	11,023

Statistics of Department of Biochemistry

Number of examination at Service Biochemistry Laboratory in 2019, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Vitamin A	7	11	13	15	10	6	8	7	9	6	10	3	105
2. Vitamin B1	3	4	1	3	2	3	3	5	1	7	8	21	61
3. Vitamin B2	0	1	0	0	0	0	1	0	0	1	1	0	4
4. Vitamin B6	0	2	0	0	0	0	0	1	0	1	1	2	7
5. Vitamin C	2	3	1	1	3	1	1	2	4	2	2	4	26
6. Vitamin D	7	3	6	4	9	7	4	5	2	1	5	2	55
7. Vitamin E	7	12	12	12	9	3	8	7	12	7	13	6	108
8. Porphyrins (Qualitative)	3	1	0	0	1	1	0	1	2	0	2	3	14
9. Porphyrins (Quantitative)	0	0	0	0	0	2	0	0	2	0	2	1	7
Total	29	37	33	35	34	23	25	28	32	25	44	42	387

Statistics of Department of Dermatology

Number of patient services in 2019, classified by clinic, Siriraj Hospital

Services	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
General Dermatology	3,779	3,260	3,739	3,672	4,076	3,691	4,111	4,003	3,701	4,240	3,802	3,687	45,761
Contact Dermatitis clinic	150	168	158	107	114	169	147	172	182	119	156	164	1,806
Clinic 407	82	67	65	63	79	73	58	55	66	85	53	80	826
Skin Biopsy Report Clinic	70	65	93	69	66	71	105	75	85	97	75	66	937
Hansen's clinic	13	5	5	11	15	8	6	11	3	13	7	8	105
Autoimmune clinic	87	70	69	77	78	75	70	101	60	101	87	73	948
Granuloma clinic	14	16	10	21	22	15	15	24	8	34	19	15	213
Phototherapy clinic	917	841	935	783	841	885	1,005	1,046	1,120	1,125	1,087	867	11,452
Siriraj Urticaria clinic	114	101	77	114	118	105	130	108	79	113	106	109	1,274
Melasma clinic	57	42	50	61	37	54	49	44	73	47	44	50	608
Hair clinic	159	152	137	159	115	146	158	142	200	166	135	156	1,825
Mohs Micrographic Surgery	4	17	10	9	14	12	9	8	14	7	8	10	122
Skin laser center	435	397	435	366	502	388	429	223	473	436	387	272	4,743
Vitiligo clinic	0	18	19	18	10	15	13	16	25	1	15	20	170
Hair transplantation clinic	4	8	4	6	8	11	16	14	14	22	15	15	137
Nail procedural clinic	35	16	32	28	39	36	49	33	44	54	32	48	446
Onychomycosis and nail clinic	20	32	19	13	23	19	23	22	17	22	14	18	242
Psoriasis clinic	91	101	124	93	126	93	120	101	98	120	99	119	1,285
Birthmark clinic	12	6	6	9	7	10	0	11	10	10	7	5	93
Birthmark laser clinic	6	11	6	4	5	10	9	9	10	5	12	9	96
Aesthetic clinic	15	12	20	16	13	11	6	5	16	16	17	10	157
410 Clinic	925	855	975	911	1,073	956	1,125	1,077	950	1,003	893	898	11,641
Infectious Control Clinic	144	126	120	118	101	88	113	111	159	154	150	110	1,494
DCP Clinic	15	32	48	46	45	58	75	57	97	63	53	67	656
Skin assessment clinic	1	0	0	0	0	0	0	0	0	0	0	0	1
Cutaneous lymphoma Clinic	8	2	2	7	11	6	3	9	7	7	15	2	79
Melanocyte-Keratinocyte	1	0	0	0	1	0	1	1	0	1	2	2	9
Transplantation Procedure Clinic													
Total	7,158	6,420	7,158	6,781	7,539	7,005	7,845	7,478	7,511	8,061	7,290	6,880	87,126

Number of patient services in 2019, classified by laboratory testing

Department of Dermatology, Siriraj Hospital

Services	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Immunofluorescence													
1.1 DIF	84	91	83	81	71	81	107	96	97	84	91	69	1,035
1.2 IIF	31	40	43	55	39	36	40	36	52	36	29	38	475
2. Fungus													
2.1 KOH	1,029	790	1,043	559	1,046	1,041	1,134	1,051	958	1,066	985	870	11,572
2.2 Culture	517	403	543	405	515	453	591	565	472	535	423	443	5,865
3. Staining													
3.1 Gram, Stain	15	13	19	21	38	18	22	26	33	26	32	24	287
3.2 Wright, stain	95	94	118	91	97	76	94	92	99	113	122	88	1,179
3.3 Acid fast stain	1	1	2	2	2	0	2	1	0	1	5	2	19
3.4 Modified AFB	1	0	0	1	1	0	0	1	0	2	1	3	10
3.5 Dark field examination	1	3	1	1	1	2	2	1	4	1	1	3	21
4. Specimens collection for Lab microbiology													
4.1 Bacteria	16	12	18	16	22	10	38	17	13	28	13	13	216
4.2 Fungi	3	5	6	10	10	4	17	6	4	8	5	4	82
4.3 Mycobacteria	2	2	3	2	5	2	8	6	3	1	4	1	39
4.4 Virus (HSV&VSV)	0	0	0	0	0	0	0	0	0	0	0	0	0
4.5 Antigen (HSV&VSV)	6	7	12	13	9	7	14	20	22	15	20	11	156
4.6 Mycobacterium PCR	4	6	5	11	10	4	19	10	6	12	4	3	94
4.7 Gonorrhea cocci (G.C.)	0	0	0	0	0	0	0	0	0	0	0	0	0
4.8 Genotype : HPV	3	0	3	3	0	0	0	0	0	0	0	2	11
5. Operation in STD Clinic													
5.1 Aceto white test	5	6	3	0	1	2	5	1	1	3	4	2	33
5.2 Podophyllin cautery	37	22	29	30	49	34	31	20	29	44	28	39	392
5.3 Liquid nitrogen	14	13	17	14	22	20	18	10	16	17	10	17	188
5.4 60%, 85% TCA	15	12	8	3	7	2	0	0	0	0	0	1	48

Number of patients in 2019, classified by operative at 410 Clinic

Department of Dermatology, Siriraj Hospital

Services	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Aspiration of skin	8	4	13	1	8	9	7	8	6	8	3	5	80
Abscess incision&drainage (Dermato)	5	1	6	4	3	3	3	4	4	4	3	5	45
Cryosurgery	114	107	100	85	97	114	136	121	100	121	87	107	1,289
Electrocautery	49	37	43	29	41	50	47	44	37	37	39	32	485
Extraction	49	36	38	44	58	64	65	44	44	65	39	77	623
Iontophoresis	0	7	17	6	15	12	3	0	2	2	0	0	64
Paring	42	35	45	34	38	34	43	39	27	35	32	47	451
Trichloroacetic acid cautery	44	37	29	23	38	45	33	40	34	42	39	38	442
Dressing	67	48	66	59	60	66	120	99	59	63	82	74	863
Stitches off suture (Dermato)	36	39	51	38	59	35	49	47	46	52	53	49	554
IV Injection (OPD/ER) (Service charge)	7	3	3	6	10	0	7	3	3	14	3	8	67
IM Injection (Dermato) (Service charge)	18	6	10	3	12	13	18	18	22	23	9	7	159
Subcutaneous injection (OPD/ER) (Service charge)	22	15	30	19	36	33	27	26	18	32	29	22	309
TA inj. (10 mg/ml)	299	269	296	300	329	280	307	310	301	297	248	255	3,491
TA inj. (40 mg/ml)	23	26	31	24	32	37	30	48	43	42	35	29	400
Sclerotherapy (T/P-Skin)	0	1	0	1	2	3	0	8	2	0	0	0	17
Shave Biopsy	17	26	29	28	29	25	29	28	22	30	33	17	313
Scissor	15	13	18	7	14	16	20	25	20	20	18	16	202

Statistics of Department of Forensic Medicine
Number of patients in 2019, classified by Indicators

Indicators	Unit	Number of Test												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Police station	Station	32	32	32	32	32	32	32	32	32	32	32	32	32
2. Autopsy and scene	case	492	453	477	587	505	453	452	433	552	484	479	478	5,845
2.1 Inside area of responsibility	case	451	395	445	535	468	407	405	392	514	455	435	419	5,321
2.2 Outside area of responsibility	case	41	58	32	52	37	46	47	41	38	29	44	59	524
3. Case of Clinical Forensic Medicine	case	699	586	588	557	547	544	609	618	592	564	543	563	7,010
4. The court witness	case	8	4	12	10	7	6	10	8	9	7	4	4	89
5. Case of Specimen	case	501	464	431	488	425	393	744	584	635	642	630	551	6,488
6. Slide of Histochemistry Laboratory	slide	4,256	2,965	4,198	4,928	3,627	3496	3108	2771	2759	3151	3228	2899	41,386
7. Sample of Forensic Toxicology Laboratory	sample	2,648	3,371	2,123	2,742	2,900	2038	2694	2116	2549	2249	2543	2251	30,224
8. Sample of Forensic Serology Laboratory	sample	251	223	180	236	183	172	189	175	211	208	200	167	2,395
9. Sample of Biological Trace Evidence Laboratory	sample	228	191	167	227	182	165	194	216	190	211	165	184	2,320

Number of patients in 2019, classified by patient categories

Department of Forensic Medicine, Siriraj Hospital

Patient Categories	Number of patients												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Out Patient department													
1.1 Traffic accident	194	175	160	166	159	145	187	163	168	156	152	150	1,975
1.2 Body Assault	52	36	36	47	48	27	40	43	22	32	23	32	438
1.3 Accident while working	8	4	8	2	12	7	7	7	2	3	4	5	69
1.4 Other injuries	212	181	179	148	158	171	199	197	189	174	157	182	2,147
1.5 Consciousness certification	21	16	17	11	21	20	10	21	14	16	11	13	191
1.6 Request other medical certification	2	8	4	0	0	4	1	3	2	5	3	1	33
2. In Patient department													
2.1 Trauma	145	113	123	122	104	132	134	135	140	155	134	131	1,568
2.2 Consciousness certification	9	11	10	20	17	11	9	7	7	9	13	9	132
2.3 Request other medical certification	0	5	3	0	0	1	0	0	0	0	0	0	9
2.4 Child abuse	4	3	2	4	5	2	4	4	4	0	1	5	38
2.5 Other	3	1	0	2	0	3	1	7	2	6	2	5	32
3. Rape													
3.1 Official working hours (08.30 a.m. - 15.30 p.m.)	8	6	10	10	4	5	4	3	8	4	5	4	71
3.2 After hours (15.31 p.m - 08.29 a.m.)	9	11	6	8	6	8	5	10	15	4	9	12	103
4. Alcohol Detection													
4.1 Official working hours (08.30 a.m. - 15.30 p.m.)	0	0	2	3	2	1	0	1	3	0	3	2	17
4.2 After hours (15.31 p.m - 08.29 a.m.)	3	6	3	6	3	1	3	2	5	0	7	3	42
5. Genetic Testing	29	10	25	8	8	6	5	15	11	0	19	3	139
6. Age assessment	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Document work	177	126	133	109	146	127	103	135	119	112	114	94	1,495

Statistics of Department of Parasitology

Number of examining at the central laboratory in 2019, classified by type of examining, Siriraj Hospital

List of examining	Number of examining												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Direct wet smear	1,300	1,167	1,222	1,008	1,181	1,062	1,039	1,293	1,110	1,085	1,008	920	13,395
2. Stool test to examine occult blood by Guaiac test	570	511	596	503	627	531	543	559	527	574	568	524	6,633
3. Stool test by modified formalin-ethyl acetate	437	394	433	371	428	395	375	419	375	423	407	296	4,753
4. Stool test to examine fat	42	27	46	35	41	39	39	39	43	30	28	24	433
5. Stool test by simple sedimentation	1	0	0	0	0	0	1	0	0	0	0	0	2
6. Stool test by scotch tape technique	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Stool test to examine occult blood by Immunochromatographic test	215	193	199	182	242	218	201	237	256	281	312	274	2,810
8. Blood test to examine Malaria by Giemsa (Thick film & Thin film)	9	3	3	2	2	2	2	6	6	4	3	0	42
9. Blood test to examine Filariasis by Giemsa	1	3	3	3	2	4	1	1	4	5	4	0	31
10. Test Malaria antigen by Rapid test	2	0	1	0	2	1	3	3	4	2	3	1	22
Total	2,577	2,298	2,503	2,104	2,525	2,252	2,204	2,557	2,325	2,404	2,333	2,039	28,121

Number of examining at the special laboratory in 2019, classified by type of examining

Department of Parasitology, Siriraj Hospital

List of examining	Number of examining												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Examine Ab to <i>Entamoeba histolytica</i> by ELISA	4	5	5	3	9	5	3	1	3	4	3	2	47
2. Examine Ab to <i>Cysticercus Cellulosae</i> by ELISA	5	6	2	5	1	1	1	3	3	2	3	0	32
3. Examine IgG Ab to <i>Toxoplasma gondii</i> by ELISA	7	7	1	2	1	2	0	0	0	1	2	1	24
4. Examine IgM Ab to <i>Toxoplasma gondii</i> by ELISA	0	0	1	1	1	1	0	0	0	0	2	0	6
5. Examine Ab to <i>Gnathostoma spinigerum</i> by western blot	7	11	14	12	10	11	0	1	8	3	10	4	91
6. Examine Ab to <i>Angiostrongylus contonensis</i> by ELISA	3	6	8	5	5	10	5	2	4	3	3	2	56
7. Examine IgG Ab to <i>Filaria</i> by ELISA	6	12	6	5	2	5	2	4	7	8	0	7	64
8. Examine fecal calprotectin	0	0	0	0	0	0	0	0	0	0	5	12	17
9. Examine Protozoa by Trichrome pigmentation	4	10	2	6	5	3	2	2	5	4	5	5	53
10. Examine the <i>Cryptosporidium</i> by modified acid-fast pigmentation	13	24	16	13	8	11	18	8	15	18	9	5	158
11. Examine the <i>Pneumocystis</i> by GMS pigmentation	28	40	29	13	19	25	16	21	15	13	23	17	259
12. Examine the <i>Pneumocystis</i> by Giemsa pigmentation	36	46	29	17	24	27	24	26	20	22	27	18	316
13. Examine the <i>Microsporidium</i> by modified trichrome pigmentation	11	26	8	10	8	7	9	2	7	9	8	4	109
14. Examine the <i>Pneumocystis</i> by IFA pigmentation	42	70	44	26	37	39	35	41	45	48	51	34	512
15. Examine the <i>Acanthamoeba</i> by culture	68	134	114	68	26	98	72	86	82	111	60	101	1,020
16. Examine the <i>Leishmania</i> by culture	0	0	0	0	0	0	0	0	0	0	0	0	0
17. Parasite identification	2	0	0	2	3	2	1	0	2	1	1	2	16
18. Arthropod identification	0	0	1	0	1	2	1	0	1	0	0	0	6
Total	236	397	280	188	160	249	189	197	217	247	212	214	2,786

Statistics of Department of Pathology

Number of services in 2019, classified by working type, Siriraj Hospital

Working type	Unit	Number of services												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Claim the body	case	212	190	214	260	238	216	214	172	197	234	210	213	2,570
Embaln	case	139	139	157	201	166	153	134	123	137	188	157	124	1,818
Autopsy	case	6	8	10	7	11	8	8	7	2	3	4	4	78
Autopsy	Slide	223	333	440	292	365	333	387	349	105	298	242	274	3,641
Autopsy	Block	232	285	381	307	401	343	418	361	70	244	215	246	3,503
2. Disposal of the dead body														
Given to relatives	case	188	164	188	236	204	194	178	148	179	218	190	177	2,264
Poh Teck Tung Foudation	case	0	0	0	0	73	0	0	0	0	0	0	0	73
Given to Department of Anatomy	case	13	4	11	4	6	7	11	7	8	5	5	9	90
Given to Siriraj Hospital	case	0	0	0	0	4	0	0	0	0	0	0	0	4
3. Biopsy														
Surgical	case	3,390	3,126	3,488	3,019	3,299	3,265	3,372	3,574	3,366	3,323	3,286	2,945	39,453
Surgical	Slide	20,289	19,077	21,491	18,007	19,424	18,834	18,795	16,678	16,198	14,614	15,488	14,412	213,307
Surgical	Block	15,322	15,271	17,095	14,230	17,090	16,436	16,075	15,790	15,175	13,741	14,741	13,702	184,668
X-Surgical	case	190	158	173	150	182	166	177	169	169	205	207	178	2,124
X-Surgical	Slide	636	464	426	438	539	442	389	242	244	296	365	357	4,838
X-Surgical	Block	262	382	332	294	331	369	371	352	343	357	396	414	4,203
SIPH-surgical	case	734	758	745	744	830	956	959	990	901	918	877	883	10,295
SIPH-surgical	Slide	4,217	3,588	3,987	4,043	4,162	4,784	4,950	4,237	4,069	3,966	3,905	4,041	49,949
SIPH-surgical	Block	3,422	2,976	3,146	3,218	3,304	3,893	4,068	4,071	3,997	3,934	3,891	3,799	43,719

Number of services in 2019, classified by working type (cont.)

Department of Pathology, Siriraj Hospital

Working type	Unit	Number of services												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
4. Histochemistry														
Histochemistry	Slide	3,162	2,872	3,409	2,817	3,185	2,993	3,568	3,168	3,124	2,953	3,103	2,742	37,096
Histochemistry	Type	40	40	42	40	45	41	40	39	42	38	38	41	486
5. Frozen section (Surgical)														
Frozen section (Surgical)	case	87	61	71	95	60	46	73	89	79	72	60	79	872
Frozen section (Surgical)	Slide	436	272	319	468	326	220	357	438	327	313	268	361	4,105
Frozen section (Surgical)	Block	268	161	192	260	184	124	202	229	181	166	161	188	2,316
6. Frozen section (SiPH-Surgical)														
Frozen section (SiPH-Surgical)	case	13	6	10	3	7	11	11	14	8	12	4	14	113
Frozen section (SiPH-Surgical)	Slide	60	31	38	26	23	69	53	69	39	39	15	73	535
Frozen section (SiPH-Surgical)	Block	36	19	22	15	12	32	31	14	8	12	4	35	240
7. Immunoperoxidase														
Immunoperoxidase	Slide	4,544	3,584	3,885	3,566	4,047	3,965	4,396	4,322	4,048	3,875	3,590	3,385	47,207
Immunoperoxidase	Type	221	200	203	217	199	198	205	222	195	194	202	189	2,445
8. Cytology														
Cytology	case	660	476	473	577	581	587	632	649	661	615	635	432	6,978
Cytology	Slide	2,714	2,218	2,165	2,341	2,224	2,260	2,368	2,487	2,607	2,471	2,213	1,958	28,026
Cytology	Block	270	213	228	216	215	234	262	259	291	274	248	204	2,914

Number of services in 2019, classified by working type (cont.)

Department of Pathology, Siriraj Hospital

Working type	Unit	Number of services												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
9. Cytogynae-SiPH														
Cytogynae-SiPH	case	739	642	652	585	702	786	882	553	0	0	0	0	5,541
Cytogynae-SiPH	Slide	739	642	652	585	702	786	882	553	0	0	0	0	5,541
10. Cytonongynae-SiPH														
Cytonongynae-SiPH	case	115	84	91	110	126	135	123	137	126	143	121	106	1,417
Cytonongynae-SiPH	Slide	507	406	497	516	536	607	620	617	570	630	551	514	6,571
Cytonongynae-SiPH	Block	35	40	44	32	42	58	53	53	52	61	49	44	563
11. Electron Microscope image test														
Transmission	case	55	56	65	41	65	48	56	43	56	55	55	44	639
Transmission	Slide	249	277	381	234	288	213	236	159	296	270	231	146	2,980
Transmission	Image	137	106	86	111	59	89	62	91	138	146	170	78	1,273

Statistics of Department of Clinical Pathology

Number of laboratory examination and services provision in 2019, classified by laboratory, Siriraj Hospital

Month	Number of examination										Total test	Number of patients (visits)
	Central laboratory				Special Laboratory							
	Chemical clinic	Hemostasis system	Hematology	Microscopy	Serology and Immunology	Hemostasis system	Down Syndrome	Molecular Biology	POCT			
January	535,974	18,381	47,786	19,411	7,060	206	167	125	347	629,457	106,897	
February	479,175	16,524	42,678	17,341	6,450	179	126	105	223	562,801	95,121	
March	551,233	19,888	49,118	19,304	7,115	193	176	85	348	647,460	108,252	
April	478,777	17,794	42,668	16,780	6,394	178	139	81	242	563,053	94,003	
May	524,209	18,063	46,406	18,471	6,931	241	152	129	277	614,879	103,388	
June	529,864	18,333	46,446	18,113	6,690	200	176	75	313	620,210	103,407	
July	508,320	18,473	47,432	18,147	6,995	262	128	84	399	600,240	103,306	
August	542,276	19,268	50,379	19,275	7,541	285	188	98	337	639,647	108,319	
September	522,283	18,828	47,978	18,379	6,981	193	143	117	310	615,212	104,569	
October	544,377	19,418	50,201	18,680	7,157	205	149	104	223	640,514	109,044	
November	528,965	17,603	47,901	17,993	6,864	243	131	91	89	619,880	103,691	
December	478,227	16,833	43,676	16,394	6,209	242	128	86	30	561,825	93,117	
Total	6,223,680	219,406	562,669	218,288	82,387	2,627	1,803	1,180	3,138	7,315,178	1,233,114	

Number of examination at Central Laboratory: Chemical clinic in 2019

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Alkaline Phosphatase	14,211	12,815	14,339	12,979	13,559	13,923	14,244	14,939	14,155	14,817	14,448	13,289	167,718
2. GGT	1,084	940	1,150	882	992	1,010	875	987	1,054	1,005	1,029	934	11,942
3. BUN	32,927	28,988	33,179	28,915	31,025	31,574	30,871	32,988	31,635	32,840	31,129	28,984	375,055
4. LDH-L	1,767	1,485	1,665	1,611	1,736	1,533	1,687	1,693	1,785	1,789	1,610	1,543	19,904
5. AST (SGOT)	23,753	20,866	23,701	20,747	22,797	23,188	22,840	24,586	23,115	24,290	23,964	21,316	275,163
6. ALT(SGPT)	26,332	23,182	26,615	23,119	25,216	25,562	25,074	26,935	25,405	26,652	26,350	23,416	303,858
7. CPK	1,802	1,640	2,011	1,755	1,897	1,846	1,693	1,903	1,801	1,863	1,877	1,516	21,604
8. CHOLESTEROL	18,696	16,987	19,727	16,045	18,546	19,218	17,184	19,219	17,563	18,357	18,912	15,939	216,393
9. HDL-CHOL	17,404	15,838	18,479	15,079	17,288	17,886	16,012	18,109	16,411	17,326	17,840	15,053	202,725
10. URIC ACID	6,205	5,510	6,382	4,924	5,697	6,686	5,737	6,792	5,920	5,970	6,019	5,347	71,189
11. TRIGLYCERIDE	19,016	17,258	20,056	16,408	18,946	19,590	17,541	19,739	17,990	18,972	19,395	16,459	221,370
12. GLUCOSE	28,015	25,077	28,847	23,758	27,167	28,313	25,776	28,452	26,240	27,112	27,901	23,542	320,200
13. PHOSPHORUS	10,711	9,545	11,580	10,880	11,070	11,235	10,170	10,701	10,345	10,836	10,193	9,694	126,960
14. ALBUMIN	20,847	18,309	21,075	18,610	20,469	20,022	20,211	20,890	20,396	20,927	20,295	18,767	240,818
15. TOTAL BILIRUBIN	12,296	10,891	12,283	11,433	11,873	11,641	12,253	12,356	12,327	12,759	12,262	11,463	143,837
16. TOTAL PROTEIN	13,877	12,204	13,864	12,539	13,418	13,048	13,653	13,911	13,850	14,130	13,776	12,656	160,926
17. AMMONIA	77	81	60	95	101	96	74	68	101	133	55	68	1,009
18. TOTAL CALCIUM	9,679	8,651	10,221	9,444	9,970	10,103	9,329	9,520	9,127	9,635	9,182	8,533	113,394
19. CREATININE	57,713	51,301	58,735	50,206	55,792	56,196	54,017	58,044	55,541	58,444	56,876	50,696	663,561
20. DIRECT BILIRUBIN	11,778	10,516	11,892	11,060	11,387	11,065	11,801	11,943	11,925	12,315	11,853	11,127	138,662

Number of examination at Central Laboratory: Chemical clinic in 2019 (cont.)

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
21. MAGNESIUM	7,983	7,304	8,555	8,374	8,438	8,478	7,777	7,994	7,712	8,476	7,822	7,694	96,607
22. AMYLASE	303	303	279	272	266	319	317	340	342	358	325	298	3,722
23. SODIUM	32,386	29,431	33,611	30,389	32,440	31,605	31,273	32,973	32,507	34,061	31,911	30,059	382,646
24. POTASSIUM	37,140	33,655	38,674	34,465	36,873	36,377	35,504	37,732	37,017	38,676	36,365	33,960	436,438
25. CHLORIDE	30,792	27,987	31,822	28,830	30,561	29,943	29,789	31,406	30,895	32,378	30,238	28,551	363,192
26. BICARBONATE(CO ₂)	31,985	28,899	33,065	29,819	31,671	31,092	30,864	32,437	31,992	33,472	31,108	29,499	375,903
27. IONIZED CALCIUM	2,965	2,616	3,101	2,744	2,779	3,120	2,634	2,951	2,920	3,101	2,865	2,694	34,490
28. TRANSFERRIN	39	36	40	37	25	679	60	38	635	31	42	39	1,701
29. HAPTOGLOBIN	93	105	121	116	125	100	105	126	139	118	102	110	1,360
30. Troponin-T	1,155	978	1,156	912	939	1,076	1,082	1,069	1,094	1,123	1,075	1,110	12,769
31. Ketone	315	264	265	293	316	325	266	318	275	294	258	258	3,447
32. T3	2,615	2,405	2,732	2,112	2,597	2,585	2,453	2,508	2,484	2,491	2,487	2,222	29,691
33. T4	428	372	456	379	434	401	404	458	378	414	412	368	4,904
34. FT4	5,117	4,525	5,122	4,011	4,926	4,818	4,705	4,771	4,761	4,985	4,982	4,248	56,971
35. TSH	6,369	5,654	6,532	5,188	6,267	6,137	5,948	6,107	6,024	6,287	6,353	5,344	72,210
36. CORTISOL	585	575	684	561	608	496	523	580	641	655	572	604	7,084
37. INSULIN	617	249	431	269	347	334	317	403	367	390	374	300	4,398
38. BLOOD GAS	3,078	2,790	3,463	2,457	3,050	3,349	2,856	2,843	3,139	3,828	3,349	3,055	37,257
39. Hb A1C	17,462	15,670	18,349	14,384	17,081	18,000	16,042	17,711	16,502	16,977	17,830	14,902	200,910
40. U/CSF MICRO TOTAL PROTEIN	2,803	2,247	2,680	2,152	2,488	2,516	2,394	2,479	2,473	2,632	2,352	2,067	29,283

Number of examination at Central Laboratory: Chemical clinic in 2019 (cont.)

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
41. LIPASE	246	237	213	222	212	259	229	248	294	277	268	264	2,969
42. LACTATE	1,964	1,837	2,318	2,034	2,244	2,283	2,067	2,017	2,107	2,244	2,009	1,622	24,746
43. CK-MB	348	308	383	281	299	357	361	365	315	334	335	320	4,006
44. DIRECT LDL	5,846	5,224	6,194	4,803	5,477	6,034	5,106	5,584	5,574	5,556	5,682	4,998	66,078
45. PARATHYROID	1,588	1,311	1,564	1,333	1,529	1,627	1,509	1,482	1,316	1,484	1,388	1,343	17,474
46. B-crosslaps	232	188	188	176	192	223	166	185	172	149	194	179	2,244
47. N-Mid osteocalcin	89	50	67	71	61	76	67	63	78	72	81	52	827
48. Pro BNP	228	193	212	210	216	220	211	285	258	306	287	242	2,868
49. TOTAL P1NP	202	144	156	139	167	199	142	139	141	129	173	157	1,888
50. MICROALBUMIN	3,457	3,185	3,499	2,850	3,199	3,196	2,834	3,189	3,001	3,312	3,494	2,906	38,122
51. LH	234	272	277	196	287	222	265	232	283	249	222	212	2,951
52. ESTRADIOL	274	291	293	225	295	272	313	282	316	303	285	250	3,399
53. PROGESTERONE	31	46	30	21	45	22	29	22	37	39	37	29	388
54. PROLACTIN	348	349	358	293	332	309	323	354	360	340	370	334	4,070
55. PROCALCITONIN	560	545	739	636	548	608	605	565	626	561	619	492	7,104
56. TESTOSTERONE	281	272	301	229	287	286	284	309	306	312	256	254	3,377
57. FERRITIN	1,772	1,452	1,604	1,594	1,654	1,697	1,610	1,709	1,553	1,732	1,686	1,515	19,578
58. B12	407	397	455	356	402	373	347	378	374	339	340	308	4,476
59. FOLATE	258	274	303	262	313	273	286	299	288	280	270	255	3,361
60. PREALBUMIN	77	70	117	145	107	748	148	121	762	157	140	133	2,725

Number of examination at Central Laboratory: Chemical clinic in 2019 (cont.)

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
61. CERULOPLASMIN	17	23	29	28	32	26	24	27	36	37	25	33	337
62. ALPHA 1 ANTITRYPSIN	0	0	0	0	0	0	0	0	0	0	0	0	0
63. FSH	414	453	465	355	464	435	446	454	463	440	379	378	5,146
64. VITAMIN D (TOTAL)	2,433	2,139	2,579	2,164	2,703	2,710	2,393	2,792	2,435	2,557	2,629	2,326	29,860
65. Free T3 (FT3)	573	470	520	476	550	497	626	565	576	592	671	462	6,578
66. sFlt-1	3	2	1	3	3	1	2	3	5	5	4	3	35
67. PIGF	3	2	1	3	3	1	2	3	5	5	4	3	35
68. Carboxyhemoglobin (COHb)	0	0	0	5	1	0	5	0	0	0	6	4	21
69. Methemoglobin (MetHb)	6	1	8	18	9	3	18	4	7	19	14	9	116
70. Lipoprotein(a)	6	4	10	8	3	32	23	8	11	12	6	4	127
71. SHBG	33	27	23	20	38	25	22	28	26	28	38	32	340
72. DHEA-S	36	29	27	33	45	36	23	30	37	32	42	30	400
73. C-peptide	53	45	61	67	68	84	115	93	93	60	77	58	874
74. MICROBILIRUBIN	1,475	1,124	1,193	1,219	1,173	1,197	1,299	1,359	1,367	1,434	1,072	1,221	15,133
75. Cystatin c	11	6	12	15	6	7	11	11	17	9	10	25	140
76. Anti-Mullerian hormone	33	46	19	27	46	28	38	35	34	36	43	28	413
77. Cortisol (saliva)	16	10	15	7	22	13	16	17	27	17	21	22	203
Total	535,974	479,175	551,233	478,777	524,209	529,864	508,320	542,276	522,283	544,377	528,965	478,227	6,223,680

Number of examination at Central Laboratory: Hemostasis system in 2019

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Fibrinogen	1,130	1,182	1,503	1,387	1,362	1,452	1,127	1,162	1,261	1,364	1,080	1,154	15,164
2. Prothrombin Time (PT)	9,748	8,617	10,307	9,016	9,563	9,641	9,601	10,107	9,621	9,979	9,584	8,783	114,567
3. Activated Partial Thromboplastin Time(APTT)	7,018	6,317	7,595	6,900	6,697	6,820	7,284	7,529	7,490	7,680	6,506	6,482	84,318
4. D-dimer	441	381	451	447	420	402	424	418	398	361	391	364	4,898
5. Anti Xa assay (Unfractionated heparin)	20	1	5	2	0	0	5	14	18	4	3	7	79
6. Anti Xa assay (Anticoagulants, others)	0	0	0	0	0	0	0	0	0	1	0	0	1
7. Anti Xa assay (Fondaparinux)	0	0	0	1	1	1	0	0	1	1	0	0	5
8. Anti Xa assay (Enoxaparin)	24	26	24	38	20	16	30	33	30	25	35	43	344
9. Anti Xa assay (Tinzaparin)	0	0	3	3	0	1	2	5	9	3	4	0	30
10. Heparin-induced thrombocytopenia (HIT)	0	0	0	0	0	0	0	0	0	0	0	0	0
IgG, rapid test													
Total	18,381	16,524	19,888	17,794	18,063	18,333	18,473	19,268	18,828	19,418	17,603	16,833	219,406

Number of examination at Central Laboratory: Hematology in 2019

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Hematocrit (Hct)	2,039	1,976	2,289	1,988	2,108	1,963	2,143	2,298	2,124	2,097	2,086	1,977	25,088
2. Platelet count (Plt)	22	27	57	54	13	27	74	41	35	25	29	48	452
3. Malaria	0	3	0	0	0	2	1	1	2	1	1	0	11
4. ESR	3,319	2,614	3,165	2,591	3,197	2,954	3,087	3,296	3,099	3,330	3,109	2,648	36,409
5. Reticulocyte	922	908	929	884	1,015	887	904	978	1,018	988	864	850	11,147
6. Complete blood count (CBC)	41,484	37,150	42,678	37,151	40,073	40,613	41,223	43,765	41,700	43,760	41,812	38,153	489,562
Total	47,786	42,678	49,118	42,668	46,406	46,446	47,432	50,379	47,978	50,201	47,901	43,676	562,669

Number of examination at Central Laboratory: Microscopy in 2019
Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Urine Pregnancy Test	352	286	326	306	321	270	320	331	338	304	290	261	3,705
2. Cell&Diff	530	495	488	473	550	415	495	534	559	532	477	513	6,061
3. pH (Fluid)	42	32	41	39	53	36	42	43	44	43	48	25	488
4. Crystal Joint fluid	48	56	45	44	58	62	66	57	43	45	53	59	636
5. Serum-Osmolality	337	346	315	355	401	362	345	368	371	382	340	317	4,239
6. Urine-Osmolality	503	462	446	500	591	432	503	572	496	565	519	454	6,043
7. Routine Urine Examination	17,470	15,549	17,511	14,928	16,375	16,434	16,282	17,261	16,421	16,676	16,158	14,651	195,716
8. Hemosiderin - Score	10	7	4	7	6	4	4	6	6	3	6	6	69
9. RBC count (Body fluid)	119	108	128	128	116	98	90	103	101	130	102	108	1,331
Total	19,411	17,341	19,304	16,780	18,471	18,113	18,147	19,275	18,379	18,680	17,993	16,394	218,288

Number of examination at Special Laboratory: Serology and Immunology in 2019

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Autoantibody profile	19	18	22	17	27	22	26	22	15	19	15	19	241
2. Autoimmune Liver profile	11	7	12	6	11	11	6	4	7	11	5	9	100
3. Autoimmune Liver Profile Plus	0	0	2	3	3	5	1	1	2	3	2	2	24
4. ANCA Profile 1.(IFA)	23	26	36	19	28	27	27	37	20	42	31	16	332
5. ANCA Profile 2.(ELISA)	19	29	16	25	30	26	26	21	20	30	26	27	295
6. Myositis Profile	38	30	28	32	36	22	25	22	24	30	29	26	342
7. Myositis Profile 4	8	21	20	19	17	13	10	18	16	14	11	8	175
8. Inflammatory Bowel Profile	2	0	1	5	3	1	0	2	2	4	3	3	26
9. Sclerosis Profile	4	2	1	4	0	2	4	3	2	7	3	4	36
10. ANA	519	468	538	466	512	496	564	626	570	512	541	472	6,284
11. Anti-dsDNA	171	185	179	150	182	172	167	194	184	180	189	172	2,125
12. Anti-Smith (Anti-Sm)	30	35	32	31	29	33	29	36	32	28	28	26	369
13. Anti-nRNP	7	18	13	8	8	8	10	9	9	9	10	6	115
14. Rheumatoid Factor(RF)	122	116	141	108	106	113	125	160	143	123	122	94	1,473
15. Anit.-CCP	67	55	63	51	71	61	89	90	89	59	62	58	815
16. ANCA Ethanol fixed	12	6	13	10	4	8	11	7	11	9	13	13	117
17. Anti-Myeloperoxidase (MPO) (EIA)	4	3	10	6	4	4	2	6	5	10	5	3	62
18. Anti-Proteinase 3(PR3)(EIA)	5	4	10	6	4	4	2	7	5	8	5	3	63

Number of examination at Special Laboratory: Serology and Immunology in 2019 (cont.)

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
19. Anti-Ro (SS-A)	28	37	29	36	42	35	29	30	30	26	34	35	391
20. Anti-LA (SS-B)	28	35	29	35	40	33	29	30	29	24	33	33	378
21. Anti-Mitochondrial AB(AMA)	16	7	15	17	17	14	11	17	24	17	13	11	179
22. Anti - liver Kidney Microsomal Ab (Anti-LKM)	14	13	12	6	12	13	12	9	12	12	4	5	124
23. Anti - Smooth muscle Ab (SMA)	48	29	45	33	41	40	43	36	37	44	33	33	462
24. Anti - Scl 70	6	26	15	12	10	12	16	10	9	6	10	10	142
25. Anti - Centromere	5	19	11	10	11	8	9	9	9	9	10	10	120
26. Anti - Glomerular Basement Membrane (Anti-GBM)	14	15	21	19	15	15	18	15	18	15	9	13	187
27. Anti - Thyroglobulin (Anti-TG)	105	96	105	90	94	89	105	94	99	97	95	63	1,132
28. Anti - Thyroidperoxidase (Anti-TPO)	141	126	122	113	119	107	124	110	115	123	116	85	1,401
29. Anti - TSH receptor IgG	115	118	119	104	145	125	118	128	131	131	125	109	1,468
30. Anti-Cardiolipin IgG	99	105	107	86	78	90	98	110	98	97	108	107	1,183
31. Anti-Cardiolipin IgM	94	96	111	87	83	87	94	110	92	87	92	96	1,129
32. Anti-Cardiolipin IgA	4	14	14	2	4	8	12	10	8	9	5	10	100
33. Anti-Beta-2 glycoprotein 1 IgGBeta2 IgG	90	96	104	86	73	81	96	104	98	93	97	96	1,114
34. Anti-Beta-2 glycoprotein 1 IgGBeta2 IgM	115	109	131	101	95	99	131	130	104	103	109	109	1,336
35. Anti-Beta-2 glycoprotein 1 IgGBeta2 IgA	4	13	10	1	6	9	9	6	6	3	6	10	83
36. Anti-acetylcholine receptor	6	2	2	4	4	3	5	4	4	7	2	3	46

Number of examination at Special Laboratory: Serology and Immunology in 2019 (cont.)

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
37. VDRL	2,468	2,267	2,350	2,231	2,357	2,322	2,393	2,496	2,282	2,236	2,052	1,846	27,300
38. VDRL(CSF)	28	28	26	35	17	25	29	39	23	27	32	35	344
39. TPHA	168	154	211	198	210	183	146	155	161	238	184	146	2,154
40. FTA-ABS IgG	3	5	3	12	12	5	8	8	7	6	3	7	79
41. FTA-ABS IgM	1	0	1	2	5	2	1	1	5	0	2	3	23
42. FTA-ABS IgG (CSF)	2	2	2	0	3	2	2	2	1	2	4	2	24
43. FTA-ABS IgM (CSF)	0	0	1	0	0	0	1	0	0	0	0	0	2
44. Anti - T.pallidum. IgG (Western blot)	1	0	1	1	0	1	0	1	1	0	0	1	7
45. Anti - T.pallidum. IgM (Western blot)	0	0	0	0	0	0	0	0	0	0	0	0	0
46. Syphilis CMIA	0	0	0	0	0	0	0	0	0	2	7	16	25
47. Melioid Titer	14	12	7	10	14	13	8	12	7	16	10	17	140
48. Cold agglutinin Titer	1	0	0	1	0	0	3	0	1	0	0	1	7
49. High sensitivity CRP	96	82	103	68	74	84	85	102	85	92	80	89	1,040
50. C-Reactive Protein	2,285	1,921	2,271	2,028	2,275	2,157	2,236	2,498	2,329	2,537	2,489	2,247	27,273
Total	7,060	6,450	7,115	6,394	6,931	6,690	6,995	7,541	6,981	7,157	6,864	6,209	82,387

Number of examination at Special Laboratory: Hemostasis system in 2019

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Protein C	36	26	38	30	42	37	46	57	30	30	43	42	457
2. Protein S	36	26	39	32	45	36	48	60	31	34	45	43	475
3. Antithrombin activity (AT)	30	21	27	20	34	27	41	40	24	24	37	37	362
4. LUPUS ANTICOAGULANT	104	106	89	96	120	100	127	128	108	117	118	120	1,333
Total	206	179	193	178	241	200	262	285	193	205	243	242	2,627

Number of examination at Special Laboratory: Infant Down Syndrome Screening Test in 2019

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Profile 1 (Double Markers Screening)	136	114	157	120	131	144	113	165	129	138	113	120	1,580
2. Profile 2 (Triple Markers Screening)	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Profile 3 (Quadruple Markers Screening)	30	12	19	17	20	32	15	23	14	11	18	8	219
4. Profile 4 (Five Markers Screening)	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Profile 5 (Second sample Markers Screening)	1	0	0	2	1	0	0	0	0	0	0	0	4
Total	167	126	176	139	152	176	128	188	143	149	131	128	1,803

Number of examination at Molecular Clinical Pathology Laboratory in 2019

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. TCRB rearrangement	2	1	1	0	1	0	0	0	0	0	1	0	6
2. TCRG rearrangement	1	1	1	1	2	0	0	2	0	0	2	0	10
3. TCRD rearrangement	0	0	0	0	0	0	0	0	0	0	1	0	1
4. IGH rearrangement	0	0	1	0	0	1	0	0	0	1	1	0	4
5. IGK rearrangement	0	0	0	0	0	0	0	0	0	0	0	0	0
6. KRAS mutation	20	14	9	9	11	10	10	12	14	13	10	6	138
7. EGFR mutation	52	44	50	39	72	49	43	50	63	53	49	56	620
8. BRAF mutation	31	31	15	23	33	7	23	23	26	26	18	19	275
9. NRAS mutation	19	14	8	9	10	8	8	11	14	11	9	5	126
Total	125	105	85	81	129	75	84	98	117	104	91	86	1,180

Number of examination at Point of Care (Glucose) in 2019

Department of Clinical Pathology, Siriraj Hospital

Examining list	Number of examination (Test)												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. POCT	347	223	348	242	277	313	399	337	310	223	89	30	3,138

Statistics of Department of Pharmacology

Number of laboratory services in 2019, classified by services, Siriraj Hospital

Detail	Price (Baht)	January		February		March		April		May		June	
		Number	Bath	Number	Bath	Number	Bath	Number	Bath	Number	Bath	Number	Bath
1. Allergen Vaccine for immunotherapy (bottle)													
Official working hour													
10 PNU/ml	100	3	300	2	200	0	0	0	0	3	300	0	0
100 PNU/ml	100	4	400	2	200	0	0	0	0	3	300	2	200
1,000 PNU/ml	200	4	800	3	600	1	200	0	0	3	600	2	400
10,000 PNU/ml	500	16	8,000	10	5,000	14	7,000	10	5,000	15	7,500	11	5,500
Outside of official hour													
10 PNU/ml	100	0	0	0	0	0	0	0	0	0	0	0	0
100 PNU/ml	100	0	0	0	0	0	0	0	0	0	0	0	0
1,000 PNU/ml	200	1	200	0	0	0	0	0	0	0	0	0	0
10,000 PNU/ml	500	6	3,000	2	1,000	2	1,000	1	500	6	3,000	0	0
2. Allergen Vaccine for skin test (Person)													
Prick test liquid during official working hour	500	0	0	0	0	16	8,000	0	0	0	0	0	0
ID test liquid during official working hour	300	3	900	0	0	7	2,100	0	0	0	0	0	0
3. Bioanalysis for drug and/or metabolite concentrations in samples from preclinical and clinical studies for clinical pharmacology													
3.1 Bioanalysis LCMS-LLE-1 ID Hospital 771031	940	0	0	0	0	0	0	0	0	0	0	239	224,660
3.2 Bioanalysis LCMS-LLE-3 ID Hospital 771039	1,235	0	0	0	0	0	0	0	0	0	0	0	0
Total		37	13,600	19	7,000	40	18,300	11	5,500	30	11,700	254	230,760

Number of laboratory services in 2019, classified by services (cont.)

Department of Pharmacology, Siriraj Hospital

Detail	July		August		September		October		November		December		Total	
	Number	Bath	Number	Bath	Number	Bath	Number	Bath	Number	Bath	Number	Bath	Number	Bath
1. Allergen Vaccine for immunotherapy (bottle)														
Official working hour														
10 PNU/ml	0	0	0	0	0	0	0	0	0	0	0	0	8	800
100 PNU/ml	1	100	0	0	0	0	2	200	1	100	1	100	16	1,600
1,000 PNU/ml	1	200	0	0	0	0	2	400	2	400	1	200	19	3,800
10,000 PNU/ml	6	3,000	8	4,000	10	5,000	13	6,500	16	8,000	2	1,000	131	65,500
Outside of official hour														
10 PNU/ml	0	0	0	0	0	0	1	100	0	0	0	0	1	100
100 PNU/ml	0	0	0	0	1	100	2	200	0	0	0	0	3	300
1,000 PNU/ml	0	0	0	0	1	200	3	600	0	0	0	0	5	1,000
10,000 PNU/ml	2	1,000	3	1,500	4	2,000	2	1,000	1	500	1	500	30	15,000
2. Allergen Vaccine for skin test (Person)														
Prick test liquid during official working hour	0	0	13	6,500	0	0	0	0	0	0	0	0	29	14,500
ID test liquid during official working hour	0	0	0	0	0	0	2	600	4	1,200	0	0	16	4,800
3. Bioanalysis for drug and/or metabolite concentrations in samples from preclinical and clinical studies for clinical pharmacology														
3.1 Bioanalysis LCMS-LLE-1 ID Hospital 771031	0	0	0	0	0	0	0	0	0	0	0	0	239	224,660
3.2 Bioanalysis LCMS-LLE-3 ID Hospital 771039	0	0	0	0	0	0	157	193,895	0	0	0	0	157	193,895
Total	10	4,300	24	12,000	16	7,300	184	203,495	24	10,200	5	1,800	654	525,955

Statistics of Department of Radiology

Number of patients in 2019, classified by examination

Division of Diagnostic Radiology, Siriraj Hospital

Examination type	Number of services												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Common Radiograph	33,487	30,421	34,241	29,897	33,217	32,309	32,345	34,373	32,501	34,702	32,944	30,312	390,749
2. Ultrasound	4,007	4,112	3,900	3,978	4,324	4,667	4,700	4,698	4,809	4,953	4,916	4,146	53,210
3. X-ray Computer	4,298	5,244	5,779	4,730	5,119	5,914	6,093	5,858	6,086	6,133	6,453	6,321	68,028
4. MRI	1,789	1,477	1,726	1,271	1,467	1,735	1,628	1,865	1,840	1,780	2,094	1,827	20,499
5. Media Contrast Examination	194	152	157	147	171	171	157	148	152	175	164	160	1,948
Total	43,775	41,406	45,803	40,023	44,298	44,796	44,923	46,942	45,388	47,743	46,571	42,766	534,434
Number of patients	38,434	34,072	38,664	33,100	37,016	37,028	37,181	38,814	37,646	39,431	38,342	35,225	444,953

Number of patients in 2019, classified by patient's type, Out-patients unit
Division of Radiation Oncology, Department of Radiology, Siriraj Hospital

Patient's type	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Consulted patient	264	231	257	220	250	239	269	270	241	256	236	213	2,946
2. Refer	18	22	11	19	12	5	13	8	6	7	10	6	137
3. Planning	152	128	159	126	139	122	160	152	168	192	152	153	1,803
4. Activity / Procedure													
4.1 Per Vaginal Examination /	353	202	252	206	271	265	251	288	210	260	264	226	3,048
Pelvic Examination													
4.2 Anesthesia service	2	4	2	0	2	1	1	10	6	0	0	3	31
4.3 ENT Endoscopy	11	7	5	0	7	6	9	2	8	4	7	7	73
4.4 Other (Blood test/ Injection /	112	107	120	65	137	145	103	118	105	138	116	163	1,429
Dressing/ NG Tube Insertion /													
Foley's Cath / Pap Smear)													
4.5 Medical contrast medium	67	53	63	56	80	51	55	70	70	81	74	127	847
4.6 IVF	3	3	5	7	4	6	0	2	2	0	2	2	36
Total	982	757	874	699	902	840	861	920	816	938	861	900	10,350

Number of patients and Bed Occupancy Rate in 2019, classified by bed type, In-patients Unit

Division of Radiation Oncology, Department of Radiology, Siriraj Hospital

Month	Number of new patient			Bed Occupancy Rate										Length of Stay (LOS)				Death		Day Ward (Chemotherapy)											
				Private Room			Curtained Room			Common Room																					
	72/6 East	72/9 West		72/6 East			72/6 East			72/6 East			72/6 East			72/6 East			72/6 East				72/9 West			72/9 West			72/9 West		
	(visit)	(visit)	(%)	(visit)	(%)	(visit)	(visit)	(%)	(%)	(visit)	(%)	(visit)	(%)	(visit)	(%)	(%)	(Day)	(Day)	(Day)		(visit)	(visit)	(visit)	(Day)	(Day)	(Day)	(visit)	(visit)	(visit)	(visit)	(visit)
January	46	18	20	45.16	6	53.23	3	90.23	20	77.88	15	69.03	7.91	12.73	2	1	39														
February	40	11	14	31.63	8	21.43	2	17.86	18	81.63	9	49.29	6.37	6.50	0	0	66														
March	46	12	14	45.62	7	45.16	0	0.00	25	48.85	12	61.29	5.12	10.00	1	0	50														
April	40	11	14	56.57	5	56.00	3	13.33	21	38.86	8	49.33	6.25	8.57	2	1	69														
May	46	12	20	61.29	8	61.29	2	100.00	18	41.47	10	63.87	5.44	11.13	2	0	61														
June	50	8	24	80.00	5	65.00	2	90.00	21	39.52	6	78.00	5.96	18.25	2	1	39														
July	43	11	23	60.37	5	62.90	5	45.16	15	49.31	6	30.97	5.67	8.44	1	0	32														
August	60	15	35	62.21	6	90.32	5	33.33	19	65.44	10	83.87	5.78	14.40	2	0	49														
September	67	16	33	76.67	8	101.67	4	110.00	26	60.00	12	49.33	5.61	7.77	2	1	44														
October	67	18	31	72.81	28	98.39	7	106.50	8	88.00	11	82.58	5.91	9.24	0	0	57														
November	65	18	29	59.52	8	66.67	5	76.67	28	71.43	13	54.67	4.74	5.08	0	0	42														
December	63	11	32	49.31	11	77.42	2	96.77	20	63.59	9	77.42	4.88	11.71	1	0	57														

Number of patients in 2019, classified by patient's type, Brachytherapy Unit
Division of Radiation Oncology, Department of Radiology, Siriraj Hospital

Patient's type	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. New patient	25	18	17	14	20	19	17	18	16	26	15	20	225
1.1 Types of Cancer													
CA Cervix	17	11	14	9	11	10	10	9	6	15	8	11	131
CA Endometrium	5	4	3	5	8	9	7	6	9	10	4	7	77
CA Prostate	2	1	0	0	0	0	0	0	1	0	0	1	5
Other	1	2	0	0	1	0	0	3	0	1	3	1	12
2. Number of Fraction	84	74	72	54	70	63	64	64	39	82	67	58	791
2.1 Intracavitary	36	42	41	41	38	44	37	41	29	51	36	37	473
2.2 Implantation	13	5	0	0	0	0	0	5	2	0	8	1	34
2.3 Intracavitary & Implantation	35	27	31	13	32	19	27	18	8	31	19	18	278
2.4 Mould	0	0	0	0	0	0	0	0	0	0	4	2	6
3. Gold seed marker implant	2	6	4	1	3	6	2	4	3	3	8	4	46

Number of patients in 2019, classified by service, Health Education and Rehabilitation

Division of Radiation Oncology, Department of Radiology, Siriraj Hospital

Services	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Health Education Service at the Health Education Room	506	363	399	348	340	401	375	476	394	498	409	352	4,861
2. Health Education Service at Radiation room	803	596	631	393	531	607	728	941	555	989	811	702	8,287
Total	1,309	959	1,030	741	871	1,008	1,103	1,417	949	1,487	1,220	1,054	13,148

Number of patients in 2019, classified by type of work, Medical Physics Unit :Treatment Planning

Division of Radiation Oncology, Department of Radiology, Siriraj Hospital

Type of work	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Manual Calculation	18	13	14	4	4	12	11	12	12	12	3	5	120
2. Advanced treatment planning	154	136	156	137	133	121	146	153	147	200	153	159	1,795
3. Patient specific QA	82	73	72	50	67	146	66	71	80	72	66	91	936
4. Image registration	0	1	0	0	0	0	0	0	1	0	0	0	2
Total	254	223	242	191	204	279	223	236	240	284	222	255	2,853

Number of new patients in 2019, classified by Machine & Radiation technique, Radiology Center

Division of Radiation Oncology, Department of Radiology, Siriraj Hospital

Machine / Radiation technique		Number of visits												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Machine														
1.1 CLINAC iX (L4)	82	80	95	69	88	87	82	109	88	100	61	68	1,009	
1.2 True Beam sTx (L5)	26	24	24	27	18	15	26	19	23	24	17	21	264	
1.3 True Beam (L6)	41	29	37	27	22	24	36	32	30	33	32	22	365	
1.4 CyberKnife (N1)	0	0	0	0	0	0	0	0	6	8	4	11	29	
1.5 Versa HD (N3)	0	0	0	0	0	0	0	0	8	11	18	8	45	
1.6 Versa HD (N4)	0	0	0	0	0	0	0	0	9	11	16	10	46	
1.7 SIMULATOR	179	149	184	155	167	152	163	207	200	220	194	187	2,157	
1.8 CT SIMULATOR	270	209	234	198	214	204	217	255	220	271	220	249	2,761	
1.9 MRI	79	57	53	58	72	53	54	45	0	46	47	70	634	
2. Technique														
2.1 Conventional RT	11	10	14	2	2	10	10	9	8	10	2	4	92	
2.2 Advanced RT														
3D-CRT	92	71	93	75	74	72	84	100	93	111	93	79	1,037	
VMAT	41	41	48	36	46	38	40	46	52	52	48	46	534	
SRS	2	5	3	9	2	2	4	0	6	4	3	7	47	
SRT,SBRT	3	6	2	1	4	4	6	5	5	10	2	9	57	
IORT	0	0	0	0	0	0	0	0	0	3	0	0	3	
Total	826	681	787	657	709	661	722	827	748	914	757	791	9,080	

Number of patient in 2019, classified by Machine, Radiotherapy Unit
Division of Radiation Oncology, Department of Radiology, Siriraj Hospital

Machine	Number of services												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. CLINAC iX (L4)	1,785	1,359	1,702	1,706	1,875	1,753	1,831	1,962	1,891	1,803	1,503	1,167	20,337
2. True Beam sTx (L5)	616	510	547	571	538	347	421	577	484	597	482	525	6,215
3. True Beam (L6)	649	679	738	495	618	505	502	668	656	851	664	515	7,540
4. Cyberknife (N1)	0	0	0	0	0	0	0	0	19	14	21	27	81
5 Versa HD (N3)	0	0	0	0	0	0	0	0	114	183	310	316	923
6. Versa HD (N4)	0	0	0	0	0	0	0	0	116	215	286	256	873
Total	3,050	2,548	2,987	2,772	3,031	2,605	2,754	3,207	3,280	3,663	3,266	2,806	35,969

Number of services in SPECT/CT Scan in 2019, classified by organ system and radiopharms

Division of Nuclear Medicine, Department of Radiology, Siriraj Hospital

Organ System	Radiopharmaceutical (type of examination)	Number of cases												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
BONE SCAN	Tc - 99m MDP	329	292	312	232	246	289	314	339	334	341	309	260	3,597
BONE DENSITY		64	51	0	40	69	43	52	52	51	51	64	36	573
BRAIN SCAN	Tc - 99m ECD	5	0	2	1	5	6	0	5	0	5	0	2	31
Breast	Tc-99m MIBI	15	1	0	0	0	0	0	0	0	0	0	0	16
CARDIAC (MUGA)	Tc - 99m RBC	64	43	64	46	64	66	61	88	57	59	49	50	711
MYOCARDIAL PERFUSION IMAGING	Tc - 99m MIBI	0	17	11	8	17	18	14	13	18	13	17	13	159
	TI - 201	0	0	0	0	0	0	0	0	6	0	0	0	6
GI SYSTEM	Tc - 99m HSA (protein losing)	1	2	4	1	1	0	0	0	0	2	2	0	13
	Tc - 99m 04 (Meckle's)	2	1	1	1	3	0	1	0	0	2	2	0	13
	Tc - 99m Phylate (bleeding)	0	0	1	0	0	0	0	0	1	0	0	1	3
HEPATOBIILIARY SCAN	Tc - 99m IDA Compounds	1	0	0	3	0	1	2	0	3	12	3	0	25
RENAL SCAN (KIDNEY)	Tc - 99m DMSA	7	4	2	3	8	5	4	4	4	9	3	1	54
	Tc - 99m DTPA	7	6	2	6	6	8	6	3	1	10	6	3	64
	Tc - 99m DTPA (lasix)	3	0	0	0	0	0	0	0	0	0	0	0	3
	Tc- 99m MAG3	1	20	45	0	32	23	31	32	29	34	22	19	288
	Tc - 99m MAG3 (captopril)	0	0	0	0	0	0	0	1	0	0	0	0	1
	Tc - 99m MAG3 (Voiding) indirect	0	0	0	0	0	0	1	0	0	0	0	0	1
LUNG SCAN	Tc - 99m MAA	2	10	10	3	6	8	4	9	5	110	11	6	184
	Tc - 99m Technegas	3	9	10	3	6	0	6	7	7	110	8	6	175

Number of services in SPECT/CT Scan in 2019, classified by organ system and radiopharms (cont.)

Division of Nuclear Medicine, Department of Radiology, Siriraj Hospital

Organ System	Radiopharmaceutical (type of examination)	Number of cases												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LYMPHATIC SCAN	Tc - 99m Dextran	20	5	17	8	17	15	19	10	15	22	12	10	170
SENTINEL NODE	Tc - 99m Dextran	0	1	1	5	0	0	4	3	1	0	0	4	19
PARATHYROID SCAN	Tc - 99m MIBI	0	7	0	0	0	0	0	0	0	0	0	0	7
	Tc - 99m O4 / Tc - 99m MIBI	9	0	9	12	8	9	9	13	10	12	0	14	105
TESTICULAR SCAN	Tc - 99m Pertechnetate	37	0	0	0	0	0	0	0	28	0	0	0	65
THYROID SCAN	I - 131	0	0	0	1	4	0	1	0	0	2	3	1	12
	Tc - 99m Pertechnetate	37	33	31	31	37	32	29	31	28	48	32	39	408
TOTAL BODY SCAN	I - 131 (TBS)	25	30	67	94	37	75	79	34	63	10	73	83	670
	I - 131 (Post treatment)	29	37	19	26	43	0	0	31	0	16	0	0	201
TUMOUR SCAN	I - 131 MIBG	7	19	16	8	19	10	6	20	14	9	7	9	144
	Tc - 99m Hynic-TOC	1	0	0	0	0	2	0	0	0	1	0	0	4
	Gallium (Ga - 67)	14	0	7	12	6	24	10	6	0	0	14	8	101
TUMOUR	F - 18 FDG	35	0	12	26	36	22	29	31	28	32	30	25	306
INFECTION SCAN	Tc - 99m WBC	0	1	0	2	0	0	0	0	0	0	0	0	3
	Gallium (Ga - 67)	0	10	0	0	0	0	0	9	0	0	0	0	19
OTHERS	SPE CT/CT	52	31	31	20	34	40	34	54	24	23	26	23	392
Total		770	630	674	592	704	696	716	795	727	933	693	613	8,543

Number of other services than scanning in 2019, classified by work type

Division of Nuclear Medicine, Department of Radiology, Siriraj Hospital

Type of work	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Blood Volumn	0	0	0	0	0	0	0	1	0	1	0	0	2
2. Thyroid Function Test (In vivo)													
2.1 I - 131 uptake	56	0	53	44	55	60	46	62	45	36	69	37	563
2.2 Perchlorate washout	1	0	0	1	1	0	0	0	0	2	1	0	6
Total	57	0	53	45	56	60	46	62	45	38	70	37	569
3. Treatment													
3.1 Thyroid Cancer													
Traditional treatment	20	17	21	6	11	13	4	8	14	13	8	12	147
Modern treatment	13	16	29	18	5	1	14	7	8	4	16	2	133
Follow up	646	612	583	660	604	667	679	672	655	655	651	552	7,636
Total	679	645	633	684	620	681	697	687	677	672	675	566	7,916
3.2 Toxic Goiter													
Traditional treatment	7	9	11	4	7	12	3	9	12	88	10	6	178
Modern treatment	27	28	26	28	33	33	30	40	14	823	50	24	1,156
Follow up	183	212	201	181	191	194	175	184	206	192	200	206	2,325
Total	217	249	238	213	231	239	208	233	232	1,103	260	236	3,659
3.3 Other													
Rx CA Prostate: Ra-223	1	0	1	1	0	0	0	0	0	0	0	0	3
Total	1	0	1	1	0	0	0	0	0	0	0	0	3
Total	954	894	925	943	907	980	951	983	954	1,814	1,005	839	12,149

Number of other services than scanning (2) in 2019, classified by work type

Division of Nuclear Medicine, Department of Radiology, Siriraj Hospital

Type of work	January			February			March			April			May			June			July		
	Blood sample	Number of patients		Blood sample	Number of patients		Blood sample	Number of patients		Blood sample	Number of patients		Blood sample	Number of patients		Blood sample	Number of patients		Blood sample	Number of patients	
4. Laboratory Thyroid Function Test (In Vitro)	0	936		0	917		0	928		0	937		0	873		0	914		0	907	
4.1 T3	78	0		8	0		6	0		4	0		7	0		7	0		9	0	
4.2 T4	15	0		790	0		766	0		813	0		733	0		790	0		760	0	
4.3 TSH	816	0		70	0		59	0		60	0		67	0		77	0		72	0	
4.4 FT3	7	0		10	0		9	0		10	0		11	0		11	0		16	0	
4.5 FT4	802	0		801	0		771	0		828	0		750	0		805	0		778	0	
4.6 External Quality Control (UK KEQAS)	7	2		7	2		7	2		7	2		7	2		7	2		7	2	
4.7 External Quality Control (RIDAS)	0	0		0	0		12	4		0	0		12	4		0	0		0	0	
4.8 Other (RJ & AS)	12	0		16	0		30	0		10	0		43	0		15	0		27	0	
Total	1,737	938		1,702	919		1,660	934		1,732	939		1,630	879		1,712	916		1,669	909	
5. Tumour Marker																					
5.1 Tg	486	0		471	0		454	0		484	0		441	0		480	0		487	0	
5.2 TgAb	320	0		332	0		316	0		305	0		285	0		308	0		304	0	
5.3 Other	0	0		43	0		0	0		0	0		0	0		0	0		0	0	
Total	806	0		846	0		770	0		789	0		726	0		788	0		791	0	
Total	2,543	938		2,548	919		2,430	934		2,521	939		2,356	879		2,500	916		2,460	909	

Number of other services than scanning (2) in 2019, classified by work type (cont.)

Division of Nuclear Medicine, Department of Radiology, Siriraj Hospital

Type of work	August			September			October			November			December			Total		
	Blood sample	Number of patients		Blood sample	Number of patients		Blood sample	Number of patients		Blood sample	Number of patients		Blood sample	Number of patients		Blood sample	Number of patients	
4. Laboratory Thyroid Function Test (In Vitro)	0	917		0	911		0	939		0	876		0	828		0	10,883	
4.1 T3	7	0		4	0		4	0		7	0		5	0		146	0	
4.2 T4	808	0		792	0		804	0		794	0		720	0		8,585	0	
4.3 TSH	89	0		76	0		80	0		89	0		93	0		1,648	0	
4.4 FT3	14	0		2	0		7	0		2	0		10	0		109	0	
4.5 FT4	822	0		800	0		815	0		802	0		732	0		9,506	0	
4.6 External Quality Control (UK KEQAS)	7	2		7	2		7	2		7	2		7	2		84	24	
4.7 External Quality Control (RIDAS)	12	4		0	0		0	0		0	0		0	0		36	12	
4.8 Other (RJ & AS)	18	0		20	0		26	0		17	0		14	0		248	0	
Total	1,777	923		1,701	913		1,743	941		1,718	878		1,581	830		20,362	10,919	
5. Tumour Marker																		
5.1 Tg	507	0		469	0		483	0		443	0		418	0		5,623	0	
5.2 TgAb	330	0		312	0		329	0		307	0		280	0		3,728	0	
5.3 Other	0	0		0	0		0	0		0	0		0	0		43	0	
Total	837	0		781	0		812	0		0	0		0	0		7,946	0	
Total	2,614	923		2,482	913		2,555	941		1,718	878		1,581	830		28,308	10,919	

Statistics of Department of Immunology

Number of laboratory services provided in 2019, classified by diagnosis group, Siriraj Hospital

Diagnosis group	Number of tests												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Serology diagnosis													
1.1 Tumor marker													
AFP	1,529	1,317	1,405	1,308	1,453	1,496	1,433	1,704	1,459	1,429	1,532	1,349	17,414
β-HCG	315	352	429	434	396	407	399	407	373	415	339	379	4,645
CEA	1,845	1,642	1,744	1,665	1,776	1,869	1,884	2,082	1,731	1,906	1,684	1,699	21,527
CA 15-3	115	92	109	99	97	40	82	91	86	96	97	74	1,078
CA 19-9	405	350	394	410	414	441	407	394	415	413	410	400	4,853
CA 125	636	545	572	550	652	638	565	589	603	638	575	584	7,147
PSA	2,514	2,049	2,446	2,250	2,309	2,365	2,479	2,473	2,351	2,568	2,492	2,286	28,582
NSE	30	27	27	33	36	26	29	34	39	30	26	40	377
Free PSA	24	25	27	25	33	30	20	27	25	32	23	30	321
HE4	16	10	9	11	14	4	11	9	19	5	3	11	122
1.2 Monoclonal gammopathies													
Serum protein zone electrophoresis	202	166	202	196	180	215	223	244	203	221	220	222	2,494
Immunofixation	172	164	179	170	186	183	230	202	186	196	183	184	2,235
Free light chain immunoglobulin	174	155	155	147	157	167	189	164	154	168	136	143	1,909
Beta-2 microglobulin	16	21	28	12	18	15	20	20	9	17	12	20	208

Number of laboratory services provided in 2019, classified by diagnosis group (cont.)

Department of Immunology, Siriraj Hospital

Diagnosis group	Number of tests												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1.3 Immunoglobulin and Complement level													
C3	120	110	127	99	101	129	118	131	119	124	119	125	1,422
C4	92	85	104	81	78	92	99	99	94	88	86	93	1,091
IgG subclass	29	32	26	22	28	22	27	36	26	42	21	22	333
IgG	77	71	89	96	87	84	99	91	98	95	64	76	1,027
IgA	22	18	22	23	20	20	32	15	23	27	16	18	256
IgM	22	17	25	24	26	25	36	17	24	30	24	18	288
IgE	44	50	49	47	59	52	65	39	66	60	61	60	652
1.4 Autoimmune													
Anti - Streptolysin O	19	12	18	12	17	15	14	15	33	11	17	18	201
Anti - DNase B	13	10	13	9	13	11	10	9	28	10	10	17	153
Anti - IFN- γ autoantibody	33	43	32	57	44	37	61	55	58	56	52	41	569
2. Cellular diagnosis													
2.1 Lymphocyte subpopulation													
CD3+T cell	16	10	10	13	10	18	26	18	13	21	19	16	190
CD4+T cell	449	316	412	496	482	420	378	413	369	400	333	321	4,789
CD8+T cell	24	14	19	22	16	21	28	23	23	30	21	22	263
B cell	17	11	10	16	18	15	41	23	19	33	28	20	251
NK cell	34	35	23	22	26	39	37	41	29	44	30	24	384

Number of laboratory services provided in 2019, classified by diagnosis group (cont.)

Department of Immunology, Siriraj Hospital

Diagnosis group	Number of tests												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2.2 Immune function													
Anti - Pneumococcal IgG	13	11	9	9	9	6	11	9	6	6	10	4	103
IFN- γ release assay for TB	51	31	42	83	40	45	52	42	39	49	47	52	573
Phagocytosis (DHR assay)	0	14	4	6	7	6	16	9	14	8	10	3	97
Mitogen stimulation	3	1	2	1	4	7	3	1	1	6	6	3	38
Antigen stimulation	1	1	2	0	0	2	4	1	2	1	1	0	15
IFN- γ receptor	0	0	1	2	1	1	2	1	1	0	5	2	16
IL-12 receptor	0	0	0	1	1	1	2	1	1	0	4	2	13
3. Molecular diagnosis													
HBV viral load	1,038	823	973	837	986	969	904	978	913	905	927	833	11,086
HCV viral load	117	71	88	73	101	83	89	85	68	86	66	57	984
HCV genotype	26	20	20	13	20	21	31	20	24	20	23	10	248
4. Drug hypersensitivity													
LTT 1 type drug	2	0	0	0	0	0	0	0	0	0	0	0	2
LTT 2 types drug	0	0	0	0	0	0	0	0	0	0	0	0	0
LTT Lamotrigine drug	0	0	0	0	0	0	0	0	0	0	0	0	0
LTT Lamotrigine and 1 type drug	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	10,255	8,721	9,846	9,374	9,915	10,037	10,156	10,612	9,744	10,286	9,732	9,278	117,956

Note: 0 refers to no test requested, for the test that is open for service.

Statistics of Department of Anesthesiology
Number of patients services in 2019, classified by unit, Siriraj Hospital

Unit	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Anesthesia	4,370	3,909	4,511	4,029	4,278	4,278	4,360	4,623	4,292	4,383	4,198	3,776	51,007
ICU	67	69	91	63	78	92	88	85	79	69	82	70	933
Pain Clinic	546	334	452	452	477	514	590	642	636	637	642	567	6,489
Acute pain service (APS)	199	178	202	161	176	193	194	258	175	189	199	205	2,329
Siriraj Pre-anesthesia	559	528	550	462	578	570	618	620	596	520	533	546	6,680
Assessment Center (SiPAC)													
Total	5,741	5,018	5,806	5,167	5,587	5,647	5,850	6,228	5,778	5,798	5,654	5,164	67,438

Number of Anesthesia services in 2019, classified by patient's type

Department of Anesthesiology, Siriraj Hospital

Type of Patient	Number of Visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
In Patient	3,327	2,954	3,428	3,048	3,287	3,129	3,274	3,382	3,282	3,316	3,127	2,853	38,407
Out Patient	735	674	717	672	670	811	734	834	688	701	744	631	8,611
Special Clinic	308	281	366	309	321	338	352	407	322	366	327	292	3,989
Total	4,370	3,909	4,511	4,029	4,278	4,278	4,360	4,623	4,292	4,383	4,198	3,776	51,007
Elective case	4,133	3,643	4,219	3,718	3,952	3,946	4,030	4,256	3,973	4,028	3,908	3,492	47,298
Emergency case	237	266	292	311	326	332	330	367	319	355	290	284	3,709
Total	4,370	3,909	4,511	4,029	4,278	4,278	4,360	4,623	4,292	4,383	4,198	3,776	51,007

Number of Anesthesia Services in 2019, classified by services unit

Department of Anesthesiology, Siriraj Hospital

Unit	Number												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Orthopaedic surgery	388	361	428	365	409	412	440	455	401	423	393	375	4,850
Eye surgery	138	119	120	130	133	117	114	121	137	127	105	107	1,468
Ear Nose Throat surgeon	169	145	178	163	174	181	169	187	159	171	159	134	1,989
Cardiovascular Thoracic division	319	265	364	323	276	268	307	284	285	280	304	269	3,544
Neuro division	177	142	165	153	154	159	146	155	149	145	154	129	1,828
Plastic division	109	98	107	86	89	82	86	105	91	83	92	83	1,111
Dental division	8	7	7	6	7	7	7	10	6	5	5	4	79
Head-Neck and Breast division	155	129	144	125	160	150	141	170	105	147	138	114	1,678
Urology division	253	242	298	220	304	266	284	271	286	298	271	246	3,239
Pediatric division	138	132	157	138	163	136	125	147	132	145	152	114	1,679
Department of Medicine	1	0	0	0	0	0	2	0	0	7	0	1	11
Pediatric chemo therapy intervention	2	5	2	4	1	3	2	0	3	3	2	3	30
Vascular division	143	125	138	132	147	123	183	150	158	151	160	154	1,764
Hepato-Pancreatic-Biliary division	103	95	102	95	101	99	111	107	107	98	92	73	1,183
Minimally Invasive division	101	102	122	95	124	103	102	109	134	151	124	143	1,410
Colorectal division	80	72	107	119	84	94	91	122	83	76	80	63	1,071

Number of Anesthesia Services in 2019, classified by services unit (cont.)

Department of Anesthesiology, Siriraj Hospital

Unit	Number												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Obstetrics	304	271	311	284	318	300	313	319	306	312	266	242	3,546
Gynaecology	348	293	280	277	296	279	317	318	319	286	306	241	3,560
Labor Room	9	0	1	12	14	5	0	12	6	10	0	10	79
Trauma division	83	55	89	69	55	74	82	59	56	61	61	61	805
Magnetic Resonance Imaging	41	33	41	29	45	36	24	32	32	43	29	35	420
Psychiatry	35	65	68	65	59	46	44	46	60	42	68	76	674
Radiology intervention	217	173	203	178	189	214	166	220	268	267	209	178	2,482
Cardiac Catheterization Lab	140	125	148	110	125	122	150	126	118	127	129	99	1,519
Magnetic Resonance Agiography	3	1	0	6	7	0	0	6	0	5	9	1	38
Siriraj GI Endoscopy center	906	854	931	845	844	1,002	954	1,092	891	920	890	821	10,950
Total	4,370	3,909	4,511	4,029	4,278	4,278	4,360	4,623	4,292	4,383	4,198	3,776	51,007

Statistics of Department of Transfusion Medicine

Number of services and working in 2019, classified by working type, Siriraj Hospital

List	Unit	Number
1. Recruited blood donors	donor	78,217
2. Eligible whole blood donors		
2.1 Voluntary blood donors	donor	55,034
2.2 Replacement blood donors	donor	4,144
2.3 Directed blood donors	donor	13
2.4 Autogous blood donors	donor	32
3. Mobile blood donation units	unit	231
4. Blood unit testing		
4.1 number of donors	donor	59,933
4.2 number of tests	tests	419,531
5. Apheresis donation	donation	1,960
6. Peripherral blood Stem cells collection	donation	210
7. Blood letting	case	58
8. Blood component preparation	unit	146,767
9. Blood transfusion service		
9.1 requests of blood components	request	48,183
9.2 Immunohematology tests	test	144,549
9.3 Red cell crossmatching	unit	90,838
9.4 Transfusion reaction investigation	case	171
9. 5 Issuing of blood component	time	156,647
10. Transfused blood components		
10.1 Whole blood	unit	11
10.2 Packed red cell	unit	14,582
10.3 Leukocyte poor blood	unit	32,420
10.4 Prestorage filtered blood	unit	6,896
10.5 Platelet concentrate	unit	2,948
10.6 Leukocyte poor platelet concentrate (5,299 bags)	unit	37,571
10.7 Single donor platelet pheresis (2,759 bags)	unit	21,668
10.8 Fresh frozen plasma	unit	17,493
10.9 Cryoprecipitate	unit	23,058

Number of services and working in 2019, classified by working type (cont.)

Department of Transfusion Medicine, Siriraj Hospital

List	Unit	Number
11. HLA/DNA Laboratory		
11.1 HLA Class I typing		
Serology	case	563
DNA	case	578
11.2 HLA Class II typing DNA	case	507
11.3 HLA B27 typing	case	292
11.4 MICA Genotype	case	30
11.5 HLA antibody identification (Luminex)		
HLA antibody screening	case	431
HLA Class I	case	578
HLA Class II	case	507
11.6 HLA Lymphocyte Separation	case	558
11.7 HLA / platelet antibody screening	case	2,730
11.8 Lymphocyte crossmatch for organ transplant	pair	48
11.9 Lymphocyte crossmatch for platelet tranfusion (SPRCA)	case	6,954
11.10 In-house HLA typing tray		
HLA class I (A,B) typing tray (60 well x 2 Tray / kit)	kit	600
HLA B27 typing tray (24 well x 1 Tray / kit)	kit	400
11.11 Siriraj In-house products: kit and reagent		
HLA typing tray		
- HLA class I (A,B) typing tray (60 well x 2 Tray / kit)	kit	400
- HLA B27 typing tray (24 well x 1 Tray / kit)	kit	200
1% Papain reagent	kit	5
Screen cells for red blood cell screening	kit	124
Panel cells for red blood cell identification	kit	86
Anti Mia	kit	0

Statistics of Department of Preventive and Social Medicine

Number of treatment services in 2019, classified by clinic, Siriraj Hospital

Clinic	Number of treatment services												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Cardiovascular Disease Prevention Clinic	501	435	370	370	496	471	438	519	518	520	501	363	5,502
Infectious Disease and Immune Deficiency Clinic	970	755	912	983	963	801	883	971	937	991	788	845	10,799
Geriatric Medicine Clinic	473	374	429	442	431	465	440	432	423	507	434	373	5,223
Vaccination Immune Clinic	1,521	1,287	1,153	2,288	4,473	16,037	7,561	3,410	1,849	1,789	2,381	1191	44,940
Health Services Unit for Staff and Occupational Health	923	1118	1,223	1,031	1,061	1,224	1,192	1,218	944	1,355	1,136	1066	13,491
Student Welfare Unit	896	753	833	761	818	518	583	764	693	737	813	626	8,795
Health Screening and Check-up Clinic	596	493	843	624	628	522	459	544	484	491	499	377	6,560
Health Assessment Clinic for Government Scholars	9	10	13	12	28	19	17	22	9	7	15	8	169
Occupational and Environmental Medicine Clinic	9	14	32	25	16	23	23	7	17	18	24	7	215
Occupational and Environmental Lung Disease Clinic	149	156	182	136	131	158	105	104	140	159	179	104	1,703

Statistics Department of Rehabilitation Medicine

Number of Out-patients in 2019, classified by clinic, Siriraj Hospital

Clinic code	Clinic	Number of out-patients												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1001	Rehabilitation clinic	1,974	1,698	1,972	1,738	2,053	1,755	1,825	1,817	1,764	1,722	1,624	1,542	21,484
1003	Acupuncture clinic	0	0	2	0	0	0	0	0	0	0	0	0	2
1004	Foot clinic	191	159	206	214	226	216	181	169	137	197	189	184	2,269
1005	Prosthetic Orthotic clinic	107	110	104	122	143	87	100	111	127	116	98	96	1,321
1006	Spasticity clinic	21	11	54	37	28	33	35	20	34	31	13	26	343
1007	Cerebral palsy multidisciplinary team clinic	0	0	1	0	1	4	0	0	1	0	0	0	7
1008	Electrodiagnosis clinic	82	78	81	75	74	81	57	78	82	90	83	70	931
1009	Musculoskeletal physical therapy clinic	996	932	1,142	1,005	1,152	1,234	1,389	1,339	1,291	1,264	1,143	1,057	13,944
1010	Pediatric physical clinic	188	143	194	169	217	215	177	218	231	192	219	182	2,345
1011	Occupational therapy clinic	546	501	644	648	756	600	699	656	700	162	654	499	7,065
1012	Speech-Language therapy clinic	163	155	125	154	188	170	167	180	184	140	173	113	1,912
1013	Neurological physical clinic	524	508	630	509	656	586	640	686	652	567	635	472	7,065
1015	Cardiac rehabilitation clinic	218	205	232	195	215	233	219	234	239	228	197	210	2,625
1017	Rehabilitation counseling clinic	57	624	88	61	96	95	94	79	76	65	60	66	1,461
1018	Recreational therapy clinic	50	49	69	50	70	73	64	56	58	58	45	26	668
1019	Social welfare	227	220	238	347	335	272	255	262	241	248	216	242	3,103

Number of Out-patients in 2019, classified by clinic (cont.)

Department of Rehabilitation Medicine, Siriraj Hospital

Clinic code	Clinic	Number of out-patients												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1021	Pedorthic athletic footwear and foot care clinic	out of service												35
1022	Hydret therapy clinic	496	381	453	425	472	405	487	468	531	366	301	316	5,101
1024	Peripheral circulation unit	2	4	1	8	7	3	4	0	2	2	2	3	38
1025	Special pediatric rehabilitation clinic	84	66	78	70	82	60	67	76	53	86	57	53	832
1026	Pediatric occupational therapy clinic	134	161	204	180	189	171	166	184	172	171	143	134	2,009
1027	Toy library	61	8	12	10	13	16	20	28	23	25	32	31	279
1029	Pediatric spasticity clinic	3	6	10	0	3	0	1	1	0	1	2	2	29
1030	Child developmental clinic	5	4	8	6	7	6	6	1	4	2	5	3	57
1032	Cardiac rehabilitation gym	78	76	67	52	121	90	108	81	58	38	41	37	847
1034	Geriatric rehabilitation clinic	3	4	10	10	12	10	3	3	7	14	5	9	90
1035	Myofascial pain clinic	81	56	60	47	61	35	40	60	33	58	40	28	599
1036	Musculoskeletal pain clinic	89	96	87	105	49	77	84	68	100	76	63	69	963
1038	Swallowing rehabilitation clinic	18	12	25	16	13	19	17	16	22	9	16	12	195
Total		6,398	6,267	6,797	6,253	7,239	6,546	6,910	6,897	6,834	5,938	6,058	5,482	77,619

Statistics of Department of Surgery

Number of operation in 2019, classified by operation

Division of Vascular Surgery, Siriraj Hospital

Operation	Number of operation
1. Artery surgery	
1.1 Arterial bypass surgery	65
1.2 Arterial thrombo embolectomy	127
1.3 Endovascular Angiography+ Intervention	205
1.4 Catheter directed thrombolysis	33
1.5 Carotid endarterectomy	26
1.6 Limb amputation.	
Major	48
Minor	90
Debridement	196
Total Periperal arterial disease	456
1.7 Open repair AAA	38
EVAR	84
Ruptured	53
Elective	69
Total Abdominal aortic aneurysm	122
2. Vein surgery	
2.1 Varicose vein surgery/ligation	120
2.2 Endovenous laser/radiofrequency(RFA)	87
2.3 Deep vein surgery	0
2.4 IVC filter	29
Total Vein disease	236
3. End stage renal failure	
3.1 Vascular access surgery (DLC, Perm Cath, AVF, AV shunt)	294
3.2 Kidney transplantation	0
Total End stage renal failure	294
4. Others surgery	885
5. Death	N/A
Total	1,993

Number of patients in 2019, classified by patient's type
Division of Trauma Surgery, Department of Surgery, Siriraj Hospital

Month	Number of visits								
	Revisitor			New visitor			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	1,157	1,167	2,324	952	1,129	2,081	2,109	2,296	4,405
February	945	1,124	2,069	876	998	1,874	1,821	2,122	3,943
March	1,095	1,390	2,485	1,125	1,363	2,488	2,220	2,753	4,973
April	1,269	1,329	2,598	1,070	1,283	2,353	2,339	2,612	4,951
May	1,262	1,509	2,771	1,050	1,220	2,270	2,312	2,729	5,041
June	1,328	1,481	2,809	994	1,123	2,117	2,322	2,604	4,926
July	1,316	1,324	2,640	998	1,159	2,157	2,314	2,483	4,797
August	1,264	1,326	2,590	1,016	1,115	2,131	2,280	2,441	4,721
September	1,193	1,274	2,467	1,001	1,112	2,113	2,194	2,386	4,580
October	1,169	1,279	2,448	964	1,143	2,107	2,133	2,422	4,555
November	1,224	1,212	2,436	985	1,003	1,988	2,209	2,215	4,424
December	1,341	1,229	2,570	991	1,097	2,088	2,332	2,326	4,658
Total	14,563	15,644	30,207	12,022	13,745	25,767	26,585	29,389	55,974

Number of operation at Trauma Surgery in 2019, classified by patient's type

Division of Trauma Surgery, Department of Surgery, Siriraj Hospital

Patient's type	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total patient	111	84	120	92	75	80	121	83	83	90	91	79	1,109
Emergency	24	21	23	16	16	13	26	19	28	16	19	13	234
Revisit	101	72	109	90	67	75	115	74	77	82	84	72	1,018
New patient	10	12	11	2	8	5	6	9	6	8	7	7	91
Major surgery	81	62	106	63	50	59	73	58	60	79	85	73	849
Minor surgery	30	22	14	29	25	21	48	25	23	11	6	6	260
Out -Patient	38	28	23	27	23	19	36	20	32	36	35	26	343
In-Patient	73	56	97	65	52	61	85	63	51	54	56	53	766
ORTHO	5	7	17	14	5	13	3	9	7	5	4	5	94
NEURO	3	1	7	2	2	5	3	3	7	0	3	1	37
FFC.	12	8	9	8	7	7	12	7	8	5	7	4	94
Patient with social welfare	10	5	10	5	6	15	9	5	9	8	7	7	96

Statistics of Department of Orthopaedic Surgery

Number of out-patients in each month in 2019, classified by unit, Siriraj Hospital

Unit	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Orthopaedic Unit (OPD118)	5,047	4,655	5,074	5,098	5,348	4,950	4,885	5,470	4,814	5,664	5,102	4,716	60,823
Orthopaedic Surgery Follow-up Unit (Fuek-Syamindra)	2,412	2,163	2,507	2,430	2,637	2,515	2,560	2,448	2,329	2,962	2,568	2,514	30,045
Orthopaedic Unit (Trauma Building)	638	546	528	457	509	470	500	483	540	610	495	560	6,336
Division of Sports Medicine (3 th Floor, Lottery Building)	1,052	958	999	923	958	959	1,044	1,106	1,028	1,209	1,019	836	12,091
Hand Clinic	0	0	0	0	0	0	0	0	0	0	0	0	0
Metabolic Bone disease (MBD Clinic)	75	35	43	47	30	52	71	46	53	25	50	58	585
Spinal Tumor Clinic	4	5	3	3	5	2	3	2	1	1	4	1	34
Spinal Unit	16	9	14	15	0	0	23	17	8	7	0	0	109
Physiotherapy Clinic	3,276	2,835	3,115	2,768	3,132	2,782	3,248	3,343	3,124	3,327	3,436	2,947	37,333
(10 th Floor, Chalermphrakiet Building, North)													
Operating Room (3 rd Floor, Syamindra Building)	24	29	22	20	35	31	30	33	37	30	52	22	365
Total	12,544	11,235	12,305	11,761	12,654	11,761	12,364	12,948	11,934	13,835	12,726	11,654	147,721

Number of In-patients in each month in 2019, classified by Division
Department of Orthopaedic Surgery, Siriraj Hospital

Division	Number of Discharged patients
	(Visits)
Adult Reconstructive Surgery	1,106
Spinal Surgery	1,174
Trauma	503
Hand and Microsurgery	571
Tumor	396
Sports Medicine	461
Foot and Ankle	432
Pediatric Orthopaedic Surgery	300
Other	7

Top five principal diagnoses of In-patients in 2019

Division of Adult Reconstructive Surgery, Department of Orthopaedic Surgery, Siriraj Hospital

ICD-10	Description	Number of visits	Average Length of stay
M17.1	Other primary gonarthrosis	643	5.37
M17.0	primary gonarthrosis,bilateral	88	6.30
T84.0	Mechanical complication of internal joint prosthesis	71	11.43
M16.7	Other secondary coxarthrosis	32	6.14
M16.1	Other primary coxarthrosis	28	6.25

Top five principal diagnoses of In-patients in 2019

Division of Spinal Surgery, Department of Orthopaedic Surgery, Siriraj Hospital

ICD-10	Description	Number of visits	Average Length of stay
M48.06	Spinal stenosis, lumbar region	168	7.78
M43.16	Spondylolisthesis, lumbar region	107	6.97
M51.1	Lumbar and other intervertebral disc disorders with radiculopathy	102	5.83
M47.12	Other spondylosis with myelopathy, cervical region	100	6.76
M48.07	Spinal stenosis, lumbosacral region	57	7.23

Top five principal diagnoses of In-patients in 2019

Division of Trauma , Department of Orthopaedic Surgery, Siriraj Hospital

ICD-10	Description	Number of visits	Average Length of stay
S72.001	Closed fracture of neck of femur, displaced intracapsular fracture	106	11.43
S72.101	Closed intertrochanteric fracture of femur, unstable type	68	11.68
M96.0	Pseudarthrosis after fusion or arthrodesis	48	9.25
T84.1	Mechanical complication of internal fixation device of bones of limb	42	9.93
S32.40	Closed fracture of acetabulum	18	18.79

Top five principal diagnoses of In-patients in 2019

Division of Hand and Microsurgery, Department of Orthopaedic Surgery, Siriraj Hospital

ICD-10	Description	Number of visits	Average Length of stay
G83.2	Monoplegia of upper limb	50	3.42
S52.503	Closed fracture of distal radius, complete intraarticular	39	2.68
S14.3	Injury of brachial plexus	23	2.70
G56.2	Lesion of ulnar nerve	18	2.03
G56.0	Carpal tunnel syndrome	14	1.97

Top five principal diagnoses of In-patients in 2019

Division of Tumor, Department of Orthopaedic Surgery, Siriraj Hospital

ICD-10	Description	Number of visits	Average Length of stay
C79.5	Secondary malignant neoplasm of bone and bone marrow	128	12.96
C49.2	Malignant neoplasm of connective and soft tissue of lower limb, including hip	33	11.73
D17.2	Benign lipomatous of skin and subcutaneous tissue of limbs	33	2.63
D48.0	Neoplasm of uncertain or unknown behavior of bone and articular cartilage	27	5.25
D16.2	Benign neoplasm of bone and articular cartilage ,Long bones of lower limb	24	3.82

Top five principal diagnoses of In-patients in 2019

Division of Sports Medicine, Department of Orthopaedic Surgery, Siriraj Hospital

ICD-10	Description	Number of visits	Average Length of stay
M23.51	Chronic instability of knee, anterior cruciate ligament or anterior horn of medial meniscus	183	2.79
M75.1	Rotator cuff syndrome	69	2.81
S46.0	Injury of tendon of the rotator cuff of shoulder	54	2.89
M23.23	Derangement of meniscus due to old tear or injury , Medial collateral ligament or Other and unspecified medial meniscus	13	2.57
M23.26	Derangement of meniscus due to old tear or injury , Other and unspecified lateral meniscus	11	2.48

Top five principal diagnoses of In-patients in 2019

Division of Foot and Ankle, Department of Orthopaedic Surgery, Siriraj Hospital

ICD-10	Description	Number	Average
		of visits	Length of stay
M21.57	Acquired clawhand, clubhand, clawfoot and clubfoot, ankle and foot	40	3.08
M19.07	Primary arthrosis of other joints, ankle and foot	26	5.33
M20.1	Hallux valgus (acquired)	26	2.70
S82.80	Closed fractures of other parts of leg	26	4.30
M19.17	Post-traumatic arthrosis of other joints, ankle and foot	23	4.10

Top five principal diagnoses of In-patients in 2019

Division of Pediatric Orthopaedic Surgery, Department of Orthopaedic Surgery, Siriraj Hospital

ICD-10	Description	Number	Average
		of visits	Length of stay
Q65.0	Congenital dislocation of hip, unilateral	13	3.00
M92.5	Juvenile osteochondrosis of tibia and fibula	10	4.10
Q66.0	Talipes equinovarus	10	2.63
G80.1	Spastic diplegic cerebral palsy	8	1.78
M21.17	Varus deformity, not elsewhere classified, Ankle and foot	8	4.13

Statistics of Department of Physiology

Number of laboratory examination in 2019, classified by patient's type

Division of Cardiovascular Physiology, Siriraj Hospital

Month	Number of patients		Research	Total
	IPD	OPD		
January	1	2	-	3
February	-	2	-	2
March	2	4	1	7
April	1	8	1	10
May	1	3	-	4
June	-	6	-	6
July	-	7	-	7
August	2	5	-	7
September	-	7	-	7
October	-	4	-	4
November	-	6	-	6
December	-	4	-	4
Total	7	58	2	67

Statistics of Department of Obstetrics and Gynaecology

Number of patients in each month in 2019, classified by patient's type, Siriraj Hospital

Patients type	Number of visits												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
OUT-PATIENTS													
Obstetrics	6,580	6,062	5,675	5,932	6,238	5,727	6,137	6,177	6,092	5,912	5,109	5,033	70,674
Gynaecology	13,628	12,308	12,272	11,971	12,897	13,988	13,846	14,437	14,105	14,039	13,553	11,773	158,817
Total	20,208	18,370	17,947	17,903	19,135	19,715	19,983	20,614	20,197	19,951	18,662	16,806	229,491
IN-PATIENTS													
Newborn Infant	530	439	498	460	532	512	509	512	526	505	469	449	5,941
Obstetrics	800	688	779	685	786	773	782	797	768	776	727	710	9,071
Gynaecology	510	495	519	452	497	480	471	521	515	488	536	436	5,920
DELIVERY & BIRTH													
Deliveries	620	521	587	569	611	584	606	613	620	596	548	521	6,996
Live Birth	632	531	599	587	627	596	622	628	632	614	563	529	7,160
Stillbirth	4	2	3	4	4	3	1	3	1	1	-	-	26
OPERATIONS													
Obstetrics	351	304	343	276	367	354	364	375	341	345	307	265	3,992
Gynaecology	399	334	320	306	323	285	357	341	359	312	331	257	3,924
Total	750	638	663	582	690	639	721	716	700	657	638	522	7,916
PV EXAMINATION													
OPD	596	501	520	610	541	553	548	539	563	880	781	708	7,340
IPD	47	37	58	36	42	20	37	41	35	126	112	102	693
PROCEDURE													
OPD	135	101	146	86	146	130	132	136	145	117	117	109	1,500
IPD	46	35	61	36	26	16	28	37	31	35	27	27	405
TUBAL STERILIZATION	45	45	37	46	46	47	54	50	33	36	41	32	512

Number of Birth and Neonate in 2019, classified by gender

Department of Obstetrics and Gynecology , Siriraj Hospital

Month	Birth				Neonate		
	Male	Female	Undifferentiated	Total	Male	Female	Total
January	333	299	-	632	331	297	628
February	264	267	-	531	263	266	529
March	317	282	-	599	316	280	596
April	311	276	-	587	308	275	583
May	321	306	-	627	319	304	623
June	305	291	-	596	304	289	593
July	336	285	1	622	336	285	621
August	318	310	-	628	316	309	625
September	339	293	-	632	338	293	631
October	321	293	-	614	321	292	613
November	281	282	-	563	281	282	563
December	283	246	-	529	283	246	529
Total	3,729	3,430	1	7,160	3,716	3,418	7,134

Statistics of Department of Otorhinolaryngology

Number of Out-patients in 2019, classified by clinic

Clinic	Number of visits	Average/month
General ear nose throat	61,710	5,143
Special Clinic	28,700	2,392
Total	90,410	7,535

Number of patients at Special clinic in 2019, classified by clinic

Department of Otorhinolaryngology, Siriraj Hospital

Clinic code	Clinic name	Number of visits
0601	ENT Oncology Clinic	1,143
0602	Pediatric Otolaryngology Clinic	475
0604	Allergy Clinic	2,765
0606	Voice Clinic	745
0607	Neuro-Otology Clinic	5,710
0608	Laryngology Clinic	1,059
0609	Otology Clinic	485
0610	Rhinology Clinic	2,046
0614	Speech and Language Clinic	6,870
0615	Rhinology Clinic OPD ENT	426
0616	Swallowing Clinic	1,294
0617	Snoring Clinic ENT	2,403
0618	Smell & Taste Clinic	359
0619	Botulinum Toxin Clinic	356
0622	Hearing aids fitting Clinic	2,880
0623	Pediatric tracheostomy's clinic	21
Total		29,037

Number of patients of Neuro-Otology clinic in 2019

Classified by type of testing with special instruments

Division of Otology, Neuro Otology & Audiology, Department of Otorhinolaryngology, Siriraj Hospital

List of instruments / Testing	Number of Visits
1. Evoked brainstem Response Auditory (ERA)	675
2. Conventional Play Audiometry (CPA)	49
3. Caloric Test	51
4. Videonystagmography (VNG)	39
5. Posturography	196
6. Auditory Brainstem Response bone click (ABR bone click)	90
7. Auditory Steady State Response (ASSR)	950
8. Auditory Brainstem Response click-tone burst (ABR click-tone burst)	881
9. Ocular Vestibular Evoked Myogenic Potentials (OVEMP)	84
10. Cervical Vestibular Evoked Myogenic Potentials (CVEMP)	85
11. Otoacoustic Emission + Auditory Brainstem Response Screening (OAE or OAE + ABR Screening)	5,297
12. Otoacoustic Emission (OAE)	1,277
13. Subjective Visual Vertical (SVV)	69
14. Video head impulse test (V-HIT)	150
15. Electrogustometry (EGM)	1
16. Rotatory Chairs	16
Total	9,910

Number of patients of Audiology room in 2019instruments

Classified by type of testing with special instruments

Division of Otology, Neuro Otology & Audiology, Department of Otorhinolaryngology, Siriraj Hospital

List of instruments / Testing	Number of Visits
1. Pure tone Audiometry	561
2. Speech Audiometry	109
3. Pure tone Audiometry ; Speech Audiometry	13,791
4. Tympanometry	1,497
5. Auditory threshold in speech frequency	38
6. Aided threshold	297
7. Audiometry fail	49
Total	16,342

Number of patients of Hearing aide room in 2019

Classified by type of testing with special instruments

Division of Otology, Neuro Otology & Audiology, Department of Otorhinolaryngology, Siriraj Hospital

List of instruments / Testing	Number of Visits
1. Hearing aid Fitting	613
2. Hearing aid Use & Care	598
3. Most comfortable level, Uncomfortable level Measurement (MCL, UCL)	181
4. Hearing aid Follow-Up	1,807
5. Functional gain Measurement	221
6. Real Ear Measurement (REM)	79
7. Hearing aid Maintenance	187
8. Hearing aid Consultation	517
Total	4,203

Top ten diseases of Speech and Language Clinic in 2019

Division of Laryngology Head & Neck Surgery, Department of Otorhinolaryngology, Siriraj Hospital

ICD-10	Description	Number of visits
F80.9	Developmental disorder of speech and language unspecified	5,203
F84.0	Childhood autism	558
F80.0	Specified speech articulation disorder	535
H91.9	Hearing loss, unspecified	388
Q37.9	Unspecified cleft palate with unilateral cleft lip,	205
R62.0	Delayed milestone	197
R49.8	Other and unspecified voice disturbances	174
F80.8	Other developmental disorders of speech and language	147
F90.0	Disturbance of activity and attention	128
H90.3	Sensorineural hearing loss, bilateral	124

The treatment ranking of Speech and Language Clinic in 2019

Division of Laryngology Head & Neck Surgery, Department of Otorhinolaryngology, Siriraj Hospital

ICD-9-CM	Description	Number of visits
93.74	Speech defect training	493
93.75	Other speech training and therapy	13
93.73	Esophageal speech training	3

Number of patients of Allergy Clinic in 2019

Classified by type of testing with special instruments

Division of Rhinology & Allergy, Department of Otorhinolaryngology, Siriraj Hospital

List of instruments / Testing	Number of Visits
1. Skin prick test (SPT)	334
2. Intradermal Test (ID Test)	95
3. Specific Immunotherapy (SIT)	161
4. Acoustic Rhinometry (ARM)	47
5. Rhinomanometry (RMM)	86
6. Spirometer ; Pulmonary Function Test	46
7. Smell test	126
8. Taste test	41
9. Electrogustometry (EGM)	40
10. Follow-Up (Allergy Clinic)	905
11. Follow-Up (Rhinology Clinic)	197
12. Follow-Up (Smell & Taste Clinic)	371
13. Nasal Nitric Oxide	-
14. Peak nasal inspiratory flow	45
Total	2,494

Number of in-patients in 2019, classified by ward
Department of Otorhinolaryngology, Siriraj Hospital

Month	Special Ward	General Ward	Total
January	83	188	271
February	73	181	254
March	112	235	347
April	177	190	367
May	74	167	241
June	86	186	272
July	83	181	264
August	94	205	299
September	66	174	240
October	82	169	251
November	99	172	271
December	82	163	245
Total	1,111	2,211	3,322

Number of in-patients in 2019, classified by age and gender
Department of Otorhinolaryngology, Siriraj Hospital

Age	Number of patient (person)		Total
	Male	Female	
0-15	344 (60%)	228 (40%)	572
16-35	166 (43%)	216 (57%)	382
36-60	413 (43%)	541 (57%)	954
> 60	373 (50%)	373 (50%)	746
Total	1,296	1,358	2,654

Number of in-patients in 2019, classified by patient's type

Department of Otorhinolaryngology, Siriraj Hospital

Month	Tumor	General ENT	Total
January	77 (28%)	194 (72%)	271
February	78 (31%)	176 (66%)	254
March	81 (23%)	266 (77%)	347
April	73 (20%)	294 (80%)	367
May	66 (27%)	175 (73%)	241
June	78 (29%)	194 (71%)	272
July	86 (33%)	178 (67%)	264
August	92 (31%)	207 (69%)	299
September	84 (35%)	156 (65%)	240
October	78 (31%)	173 (69%)	251
November	99 (37%)	172 (63%)	271
December	78 (32%)	167 (68%)	245
Total	970	2,352	3,322

Number of operations in the operating theater on the 4th floor of Syamindra Building in 2019

Classified by type of anesthesia, Department of Otorhinolaryngology, Siriraj Hospital

Month	Number of operations		Total
	Major Operation	Minor Operation	
January	313	79	392
February	262	58	320
March	352	70	422
April	311	68	379
May	270	75	345
June	269	64	333
July	300	74	374
August	270	59	329
September	275	87	362
October	277	95	372
November	293	71	364
December	264	76	340
Total	3,456	876	4,332

Number of operations in the operating room in 2019
Classified by key performance index list, Department of Otorhinolaryngology, Siriraj Hospital

Month	Number of operations								Total
	Panendoscopy	Endoscopic Sinus Surgery	Tonsillectomy	Thyroid lobectomy	Tympanoplasty	Stapedectomy	Parotidectomy and Submandibular extirpation	Complete thyroidectomy	
January	7	22	31	16	9	1	11	9	106
February	8	27	30	17	5	4	10	11	112
March	8	26	49	16	6	5	7	12	129
April	10	24	42	9	8	1	6	8	108
May	11	16	27	20	6	1	6	7	94
June	10	22	28	21	7	4	7	8	107
July	9	17	26	17	3	6	3	11	92
August	6	14	22	26	4	3	8	9	92
September	9	11	22	16	6	3	10	6	83
October	7	11	30	13	9	6	8	6	90
November	12	16	10	16	4	2	12	10	82
December	5	18	28	18	5	0	7	5	86
Total	102	224	345	205	72	36	95	102	1,181

Top twenty diseases in the operation on the 4th floor of Syamindra Building in 2019

Department of Otorhinolaryngology, Siriraj Hospital

ICD-10	Description	Number of visits
Z43.0	Attention to tracheostomy	355
J35.3	Hypertrophy of tonsils with hypertrophy of adenoids	235
*	Tracheal stenosis	211
E04.1	Nontoxic single thyroid nodule	168
*	Prolong intubation	167
C73	Malignant neoplasm of thyroid gland	140
H65.4	Other chronic nonsuppurative otitis media	119
C32.0	Malignant neoplasm of glottis	99
J35.0	Chronic tonsillitis	95
J38.6	Stenosis of larynx	90
J38.3	Other diseases of vocal cords	89
J32.9	Chronic sinusitis, unspecified	89
J38.0	Paralysis of vocal cords and larynx	88
J39.8	Other specified diseases of upper respiratory tract	86
D14.1	Benign neoplasm of larynx	85
G47.3	Sleep apnoea	74
J32.0	Chronic maxillary sinusitis	73
R59.0	Localized enlarged lymph nodes	73
J95.5	Postprocedural subglottic stenosis	73
J31.0	Chronic rhinitis	59

Note: "*" ICD-10 is created to name properly in the operation room

Top twenty procedures in the operation on the 4th floor of Syamindra Building in 2019

Department of Otorhinolaryngology, Siriraj Hospital

ICD-9-CM	Description	Number of visits
97.23	Replacement of tracheostomy tube	668
31.92	Lysis of adhesions of trachea or larynx	271
31.1	Temporary tracheostomy Tracheotomy for assistance in breathing	268
28.3	Tonsillectomy with adenoidectomy	241
00.94	Intra-operative neurophysiologic monitoring (NIM)	231
06.2	Unilateral thyroid lobectomy	202
31.0	Injection of larynx Injection of inert material into larynx or vocal cords	142
20.01	Myringotomy with insertion of tube	141
42.23	Other esophagoscopy	135
31.42	Laryngoscopy and other tracheoscopy	125
28.2	Tonsillectomy without adenoidectomy	123
33.23	Other bronchoscopy	115
06.4	Complete thyroidectomy	104
31.43	Closed [endoscopic] biopsy of larynx	100
19.4	Myringoplasty (Tympanoplasty Tyme I)	99
40.41	Radical neck dissection, unilateral	96
26.31	Partial sialoadenectomy	70
30.09	Other excision or destruction of lesion or tissue of larynx Stripping of vocal cords	67
40.11	Biopsy of lymphatic structure	64
40.3	Regional lymph node excision	61

Number of medical services in the operation on the 4th floor of Syamindra Building in 2019

Classified by age and gender, Department of Otorhinolaryngology, Siriraj Hospital

Age	Number of patient (person)		Total
	Male	Female	
0-15	400 (61%)	252 (39%)	652
16-35	199 (42%)	280 (58%)	479
36-60	495 (44%)	628 (56%)	1,123
> 60	478 (51%)	462 (49%)	940
Total	1,572	1,622	3,194

Statistics of Department of Medicine
Number of out-patients in 2019, classified by clinic, Siriraj Hospital

Clinic code	Clinic	Number of visits												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
01	General Medicine Clinic	2,657	2,345	2,522	2,276	3,221	2,888	3,185	3,154	2,937	3,025	2,601	1,948	32,759
0101	Hypertension Clinic	355	280	317	347	267	361	289	328	315	301	297	319	3,776
0102	Heart Clinic (OPD)	147	173	190	157	193	134	153	159	130	120	219	132	1,907
0103	Endocrinology Clinic	671	618	710	524	485	487	686	555	649	597	591	586	7,159
0104	D.M Clinic	576	564	678	661	741	536	749	558	596	745	729	397	7,530
0105	Lung Clinic	467	324	419	256	479	403	335	419	381	476	442	253	4,654
0106	Neuro Clinic	596	465	472	675	604	444	610	592	468	674	460	512	6,572
0107	G.I Clinic	265	164	211	279	193	219	279	229	253	322	278	290	2,982
0108	Inflammatory Bowel Disease	55	31	41	45	55	47	49	54	50	61	62	70	620
0109	Rheumatology Clinic	814	529	676	529	808	489	639	708	560	813	643	489	7,697
0110	Hematology Clinic	2,383	1,929	2,118	2,127	2,131	1,894	2,260	2,079	2,036	2,338	2,036	1,911	25,242
0111	Heart Clinic (Asadang Building)	100	114	114	61	117	135	109	124	119	134	93	100	1,320
0113	CKD Clinic	127	111	116	134	122	121	140	112	123	139	129	125	1,499
0114	Trop Med Clinic	62	45	45	37	55	42	51	63	64	76	71	54	665
0115	Digestive Disease Clinic	362	292	337	295	334	386	331	363	413	408	343	359	4,223
0116	Kidney Clinic	89	76	94	91	91	94	78	67	74	123	97	78	1,052
0117	Chest Clinic	32	22	25	26	31	23	23	46	23	37	29	15	332
0118	Endocrinology Clinic	518	440	414	404	430	423	437	426	455	456	430	424	5,257

Number of out-patients in 2019, classified by clinic (cont.)

Department of Medicine, classified by clinic, Siriraj Hospital

Clinic code	Clinic	Number of visits												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
0119	Hemodialysis Center (Pa-op Building)	344	277	302	322	336	287	347	327	338	350	321	346	3,897
0121	Chemistry and Molecular Biology Unit	1	8	7	1	1	1	2	4	6	5	4	2	42
0122	Ambulatory Medicine Clinic	190	140	141	104	137	150	129	173	144	188	146	118	1,760
0124	Early Onset Dementia(EOD) Clinic	2	4	3	1	4	4	3	4	2	5	5	0	37
0132	Oncology Clinic	1,226	1,192	1,220	1,103	798	867	1,300	1,113	1,445	1,246	1,172	1,401	14,083
0136	Nephrology Clinic	444	330	370	260	424	304	294	396	324	375	364	241	4,126
0143	Genetic Clinic	43	18	32	32	37	23	43	27	32	51	1	23	362
0147	Memory Clinic	101	110	79	74	119	85	84	128	83	106	109	78	1,156
0148	Geriatrics Clinic	207	114	168	145	229	175	160	191	166	163	185	147	2,050
0154	Liver Clinic (OPD)	710	458	648	542	642	583	657	555	566	643	528	552	7,084
0155	Liver Clinic (Nursing Dormitory)	13	21	15	10	8	12	29	20	15	19	12	20	194
0157	Functional Digestive Disorders Clinic	113	50	134	103	89	116	109	102	97	92	94	72	1,171
0158	Haemorrhoid Clinic	58	41	53	39	38	44	27	55	41	56	34	17	503
0160	Infectious Clinic	359	316	316	391	230	287	351	337	384	347	331	348	3,997
0161	Pre Organ Transplantation Clinic	129	110	120	105	133	78	116	128	76	89	106	115	1,305
0162	Allergy and Immunology clinic	146	85	103	126	110	129	105	113	139	185	141	125	1,507
0165	Epilepsy Clinic	105	148	147	139	171	117	152	204	102	156	194	150	1,785
0166	Parkinson Clinic	155	164	182	190	192	157	180	271	87	199	242	187	2,206

Number of out-patients in 2019, classified by clinic (cont.)

Department of Medicine, classified by clinic, Siriraj Hospital

Clinic code	Clinic	Number of visits												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
0167	Myasthenia gravis Clinic	74	89	74	95	108	76	94	137	59	93	121	81	1,101
0168	Multiple sclerosis Clinic	64	89	96	94	94	66	69	111	70	94	106	72	1,025
0169	Oncology Follow Up Clinic	554	587	454	467	415	392	524	511	600	602	613	676	6,395
0171	Galyani Vadhana Hemodialysis Center 1	772	688	739	730	717	698	755	738	690	739	722	730	8,718
0174	Galyani Vadhana Hemodialysis Center 4	768	691	742	733	755	701	759	774	708	748	715	720	8,814
0175	Hemodialysis Center (Pa-op Building)	1	3	5	10	6	15	7	6	3	1	0	1	58
0181	Neurogenetic Clinic	36	32	31	27	26	26	32	35	25	32	29	0	331
0182	Stroke Clinic	15	17	25	10	4	6	23	27	20	28	30	26	231
0184	Chronic Peritoneal Dialysis (CPD) Clinic	253	189	259	202	230	214	233	265	248	296	230	243	2,862
0185	Medicine (0185) Clinic	15,974	13,983	15,461	14,753	16,293	13,966	14,608	15,533	14,673	15,755	15,209	13,959	180,167
0188	Continuity of Care Clinic	235	216	238	228	227	259	0	184	156	180	211	183	2,317
0189	SLE Clinic	5	0	8	0	7	7	0	9	6	4	8	7	61
0190	Nutrition clinic	107	60	111	27	120	93	89	76	86	84	97	38	988
0191	Sleep Test Unit	364	302	292	263	351	286	292	254	292	286	268	265	3,515
0192	401 Clinic	51	4	0	0	0	1	1	1	14	27	28	0	127
0193	201 Clinic	1,304	1,196	1,227	1,132	1,290	1,168	1,436	1,311	1,287	1,469	1,262	1,237	15,319
0195	Fibrosan Unit	382	272	345	302	334	378	359	380	369	405	415	371	4,312
0196	Headache Clinic	28	18	29	37	33	24	34	20	3	1	6	2	235

Number of out-patients in 2019, classified by clinic (cont.)

Department of Medicine, classified by clinic, Siriraj Hospital

Clinic code	Clinic	Number of visits												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
0197	Post-Kidney Transplant Clinic	401	385	388	411	388	380	436	326	408	403	359	338	4,623
0198	CPAP Unit	0	3	0	2	2	1	1	0	2	1	2	4	18
0199	Medicine (0199) Clinic	439	444	232	0	0	114	247	222	188	188	209	201	2,484
22	Neuro Med Clinic	382	283	354	343	364	316	361	396	405	463	395	304	4,366
33	Diabetes Center Clinic	3	177	311	214	298	245	317	359	360	433	354	328	3,399
3401	Tumour Clinic	24	33	37	35	39	28	22	35	36	35	39	32	395
36	Procedure Unit	156	120	136	117	151	101	121	132	144	151	122	125	1,576
56	Oncology Clinic	1,915	1,682	1,755	1,794	1,716	1,537	1,803	1,741	1,765	2,032	1,871	1,758	21,369
60	Pulmonary Function Testing Unit	218	215	221	166	235	208	260	238	258	284	248	212	2,763
61	Asthma Clinic	137	92	107	60	155	100	107	123	109	133	120	99	1,342
72	COPD Clinic	110	72	79	98	85	86	85	86	77	94	73	73	1,018
7201	Pulmonary Rehabilitation Clinic	15	8	14	23	31	26	23	21	25	23	19	15	243
7202	Intervention Clinic	23	28	20	15	25	15	27	24	15	16	19	16	243
Total		39,432	34,086	37,329	34,999	38,554	34,078	37,616	38,259	36,794	40,220	37,439	34,120	442,926

Statistics of Sirindhorn School of Prosthetics and Orthotics

Number of patients at SSPO Clinic in 2019, Siriraj Hospital

Month	Number
January	690
February	644
March	723
April	655
May	815
June	613
July	667
August	609
September	596
October	717
November	653
December	599
Total	7,981

Number of devices with produce for patients at SSPO Clinic in 2019

Sirindhorn School of Prosthetics and Orthotics, Siriraj Hospital

Type of device	Unit	Number of visits												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Partial foot prosthesis (PF)	Side	0	0	0	2	0	0	1	1	0	1	1	4	10
2. Ankle disarticulation, Syme and Chopart prosthesis (AD/Syme/Chopart)	Side	2	1	1	0	1	0	0	1	0	1	1	0	8
3. Below knee prosthesis (BK)	Side	25	19	14	16	12	13	13	10	14	11	20	14	181
4. Knee disarticulation prosthesis (KD)	Side	2	2	3	0	0	0	2	0	0	0	2	0	11
5. Above knee prosthesis (AK)	Side	4	5	9	11	2	5	4	5	3	5	5	7	65
6. Hip disarticulation prosthesis (HIP)	Side	0	1	0	1	0	0	0	0	0	0	0	0	2
7. Proximal Femoral Focal Deficiency prosthesis (PFFD)	Side	2	0	1	0	1	1	1	0	0	5	1	0	12
8. Shoulder disarticulation prosthesis and Cosmetic shoulder disarticulation (SD, SD/C)	Side	1	0	0	0	1	0	0	0	0	0	0	0	2
9. Cosmetic above elbow prosthesis (AE/C)	Side	1	0	0	0	2	0	0	0	0	0	1	1	5
10. Functional above elbow prosthesis (AE/F)	Side	0	3	0	0	0	0	0	0	0	0	0	0	3
11. Cosmetic elbow disarticulation prosthesis (ED/C)	Side	0	0	0	0	0	0	0	0	0	0	0	0	0
12. Functional elbow disarticulation prosthesis (ED/F)	Side	0	0	0	0	1	0	0	0	0	0	0	0	1
13. Cosmetic below elbow prosthesis (BE/C)	Side	1	2	1	2	1	1	1	1	1	0	1	1	13
14. Functional below elbow prosthesis (BE/F)	Side	1	0	2	0	0	0	0	0	0	0	0	0	3
15. Hook below elbow prosthesis (BE/H)	Side	0	2	0	0	0	0	2	0	0	0	0	0	4
16. Partial hand or finger prosthesis (PH/Finger)	Piece	0	0	0	0	0	0	0	0	0	0	0	0	0
17. Hip orthosis (HO/C, HO/H)	Set	1	3	0	2	2	1	0	0	3	4	2	1	19
18. Hip knee ankle foot orthosis with drop ring lock (HKAFO, HKAFO/C, HKAFO/H)	Set	0	0	2	0	5	0	2	0	0	1	0	0	10

Number of devices with produce for patients at SSPO Clinic in 2019 (cont.)

Sirindhorn School of Prosthetics and Orthotics, Siriraj Hospital

Type of device	Unit	Number of visits												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
19. Knee ankle foot orthosis (KAFO/C, KAFO/H)	Side	4	9	8	5	7	3	4	7	15	15	12	4	93
20. Plastic knee ankle foot orthosis with drop ring lock (KAFO/P)	Side	1	2	3	3	2	2	0	0	3	0	1	4	21
21. Conventional knee orthosis (KO/C)	Side	5	2	2	0	0	3	0	8	0	0	0	0	20
22. Plastic knee orthosis (KO/P)	Side	0	1	1	0	0	0	0	0	0	0	1	0	3
23. Hybrid knee orthosis (KO/H)	Side	0	1	1	2	1	0	0	0	0	0	0	0	5
24. Plastic ankle foot orthosis (AFO/P)	Side	45	32	38	39	32	31	31	53	47	54	51	32	485
25. Conventional ankle foot orthosis (AFO/C)	Side	4	3	4	2	8	5	0	2	4	5	3	8	48
26. Standing Frame	Set	0	0	0	0	0	0	0	0	0	0	0	0	0
27. Total contact orthosis (TCO)	Side	191	180	274	180	240	157	200	185	170	185	143	134	2,239
28. Plastic foot orthosis (UCBL)	Side	6	5	2	2	8	2	2	0	1	9	5	0	42
29. Crow Walker	Side	1	0	1	0	0	0	0	0	0	0	0	0	2
30. Cervical orthosis(CO)	Piece	1	1	0	0	0	0	0	0	0	0	1	0	3
31. Hand splint	Side	0	1	0	2	0	0	0	0	1	0	1	0	5
32. Spinal orthosis (SO)	Set	18	7	11	12	15	11	15	12	8	13	12	15	149
33. Supramalleola orthosis (SMO)	Side	1	0	0	0	0	0	0	0	0	4	1	2	8
34. Orthopedic shoes+ DB bar	Pair	33	53	50	55	64	30	45	36	58	28	20	36	508
35. Repair	Side	144	135	163	142	149	133	135	131	119	158	128	110	1,647
36. Seating	Set	8	3	3	4	4	4	1	2	0	4	3	0	36
37. WD/C	Side	0	0	1	4	2	0	0	1	0	0	0	2	10
Total		502	473	595	486	560	402	459	455	447	503	416	375	5,673

Statistics of Center of Applied Thai Traditional Medicine

Number of patients diagnose of Thai Traditional Medicine in 2019, Siriraj Hospital

Month	Number of visits				Total
	Piyamaharajkarun Building		Yaowapa lamjitr Building		
	Offical work	Outside of office	Offical work	Outside of office	
	hours	hours	hours	hours	
January	1,470	2,146	176	136	3,928
February	1,574	1,868	179	122	3,743
March	1,386	2,724	186	136	4,432
April	1,374	1,658	187	63	3,282
May	1,453	1,762	230	64	3,509
June	1,301	2,929	166	145	4,541
July	1,428	2,382	190	128	4,128
August	1,434	2,873	155	133	4,595
September	1,582	2,935	162	134	4,813
October	1,448	2,361	158	117	4,084
November	1,579	2,757	176	153	4,665
December	1,334	2,058	165	99	3,656
Total	17,363	28,453	2,130	1,430	49,376

Number of services of Siriraj Sappaya-sthana for health promotion in 2019
Center of Applied Thai Traditional Medicine, Siriraj Hospital

Month	Number of services (visits)											
	Piyamaharajkarun Building						Yaowapa lamjitr Building					
	Common services			Special services			Common services			Special services		
	Official work hours	Outside of office hours	Total	Official work hours	Outside of office hours	Total	Official work hours	Outside of office hours	Total	Official work hours	Outside of office hours	Total
January	184	240	424	22	20	42	0	0	0	0	1	1
February	170	206	376	21	24	45	0	0	0	0	0	0
March	150	261	411	24	29	53	6	6	12	0	0	0
April	157	162	319	20	17	37	0	0	0	0	0	0
May	168	201	369	16	23	39	0	0	0	1	0	1
June	153	331	484	30	19	49	0	0	0	0	0	0
July	152	262	414	15	24	39	0	0	0	0	0	0
August	152	366	518	24	23	47	0	0	0	0	0	0
September	153	337	490	20	35	55	0	0	0	0	0	0
October	160	260	420	14	22	36	0	0	0	0	0	0
November	84	249	333	11	25	36	0	0	0	0	0	0
December	126	195	321	18	13	31	0	0	0	0	0	0
Total	1,809	3,070	4,879	235	274	509	6	6	12	1	1	2

Number of production and pharmaceutical distribution and herbal products in 2019

Center of Applied Thai Traditional Medicine, Siriraj Hospital

Month	Number of productivity		Number of distribution			
			Ayurvedic clinic		Other	
	Powders (kg.)	Product (kg.)	Powders (kg.)	Product (kg.)	Powders (kg.)	Product (kg.)
January	697.070	1,474.320	4.960	510.377	0.000	63.974
February	596.660	940.430	6.120	387.853	0.000	84.038
March	421.900	1,129.810	4.400	640.597	0.000	96.420
April	468.800	802.960	1.920	421.023	0.000	146.257
May	272.030	562.340	3.440	315.961	8.760	75.760
June	707.370	965.470	6.000	450.086	0.000	51.095
July	238.530	829.900	4.880	458.171	0.520	174.657
August	112.000	668.960	4.760	645.010	0.000	74.397
September	428.880	751.520	4.880	667.639	0.000	67.097
October	494.850	590.730	5.200	550.348	0.000	123.215
November	713.690	895.390	5.160	648.237	0.000	114.020
December	446.530	900.580	3.336	488.456	0.400	60.234
Total	5,598.31	10,512.41	55.06	6,183.76	9.68	1,131.16

Statistics of Her Majesty Cardiac Center

Number of Out-patients in 2019, Classified by unit of treatment service, Siriraj Hospital

Month	Unit of treatment service				Total
	Cardiovascular	Heart Clinic	Magnetic Resonance	Cardiovascular	
	Intervention		Imaging Room	Special Intervention	
January	350	818	206	1,744	3,118
February	295	744	172	1,463	2,674
March	345	731	195	1,652	2,923
April	280	735	166	1,515	2,696
May	301	787	193	1,539	2,820
June	326	724	186	1,593	2,829
July	346	769	188	1,535	2,838
August	345	817	193	1,725	3,080
September	317	741	186	1,661	2,905
October	321	887	199	1,689	3,096
November	323	772	206	1,658	2,959
December	277	718	155	1,443	2,593
Total	3,826	9,243	2,245	19,217	34,531

Number of Out-patients of Cardiovascular Intervention in 2019

Classified by month, Her Majesty Cardiac Center, Siriraj Hospital

List	Number of out-patients (person)																				
	January			February			March			April			May			June			July		
	Special		After hr.	Special		After hr.	Special		After hr.	Special		After hr.	Special		After hr.	Special		After hr.	Special		After hr.
	Clinic	Clinic		Clinic	Clinic		Clinic	Clinic		Clinic	Clinic		Clinic	Clinic		Clinic	Clinic		Clinic	Clinic	
Elective	144	44	-	107	49	-	115	65	-	109	51	-	115	38	-	119	71	-	110	74	-
	4	0	-	2	1	-	2	1	-	1	4	-	2	2	-	1	1	-	1	0	-
	26	5	-	29	6	-	31	11	-	15	7	-	27	4	-	22	6	-	30	5	-
	44	7	-	30	6	-	28	8	-	33	10	-	40	6	-	25	5	-	35	7	-
	46	5	-	39	2	-	47	8	-	28	1	-	39	7	-	43	1	-	40	3	-
	0	0	-	0	0	-	0	0	-	0	0	-	3	0	-	0	0	-	0	0	-
	6	0	-	2	0	-	5	0	-	7	0	-	3	0	-	3	0	-	6	0	-
	2	0	-	1	0	-	2	0	-	1	0	-	1	0	-	4	0	-	4	0	-
	1	0	-	0	0	-	5	0	-	3	0	-	1	0	-	2	0	-	2	0	-
	1	-	-	1	-	-	5	-	-	3	-	-	1	-	-	3	-	-	1	-	-
Total	274	61	-	211	64	-	240	93	-	200	73	-	232	57	-	222	84	-	229	89	-
Emergency	0	-	0	0	-	0	0	-	0	0	-	0	0	-	0	0	-	0	0	-	0
	7	-	8	7	-	13	2	-	10	1	-	6	2	-	10	8	-	12	4	-	24
	Total	7	-	8	7	-	13	2	-	10	1	-	6	2	-	10	8	-	12	4	-

Note:

1. Clinic (08:30-16:30)
2. After hours Clinic (From 16:30 pm onwards)
3. Special Clinic (From 16:00 pm. Onwards)

Number of Out-patients of Heart Clinic (4th floor Her Majesty Cardiac Center) in 2019, classified by month
Her Majesty Cardiac Center, Siriraj Hospital

Clinic	Number of patients												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
A. pace.	476	421	451	447	472	418	466	478	445	509	445	405	5,433
PCI clinic	49	62	52	47	76	47	44	69	30	43	64	48	631
GUCH	123	125	103	96	102	115	109	115	123	112	135	110	1,368
P. pace	26	30	17	27	19	32	30	29	15	30	26	18	299
Pre cath	10	6	5	8	0	5	4	4	2	11	4	2	61
HF	80	46	52	58	57	46	55	72	57	98	68	63	752
Arrhythmia	54	54	51	52	61	61	61	50	56	77	23	59	659
IDO	0	0	0	0	0	0	0	0	0	0	0	0	0
STEMI	0	0	0	0	0	0	0	0	13	7	7	13	40
Total	818	744	731	735	787	724	769	817	741	887	772	718	9,243

Number of patients of Magnetic Resonance Imaging Room (1st floor 84 anniversary) in 2019, classified by month
Her Majesty Cardiac Center, Siriraj Hospital

Procedure MRI	Number of out-patients (person)											
	January			February			March			April		
	Clinic	After hr.	ward	Clinic	After hr.	ward	Clinic	After hr.	ward	Clinic	After hr.	ward
	Clinic			Clinic			Clinic			Clinic		
1. MRA AORTA	2	1	0	1	0	0	2	0	0	1	0	0
2. MRI Congenital	1	0	0	0	0	0	0	0	0	2	0	0
3. MRI Function	1	0	0	0	0	0	0	0	0	1	0	0
4. MRI Ischemia	52	83	1	36	78	0	45	82	0	47	72	0
5. MRI TOF post op	6	1	1	4	2	0	8	3	2	6	1	0
6. MRI Viability	10	1	0	11	5	2	2	8	1	4	2	0
7. Thalassemia	38	4	0	23	5	0	19	7	0	23	1	0
8. MRA Renal	0	1	0	0	0	0	0	0	0	1	0	0
9. MRI Dobutamine	0	3	0	2	3	0	4	2	0	0	2	0
10. MRI ARVD	0	0	0	0	0	0	2	1	0	0	0	0
11. MRI ASD	0	0	0	0	0	0	0	1	0	0	0	0
12. MRA AORTA+Renal	0	0	0	0	0	0	0	0	1	0	0	0
13. MRA PA	0	0	0	0	0	0	1	0	0	1	0	0
14. MRI FONTAN	0	0	0	0	0	0	2	0	0	0	0	0
15. MRI Ischemia + Coronary	0	0	0	0	0	0	1	0	1	1	0	0
16. MRA PV	0	0	0	0	0	0	0	0	0	1	0	0

Number of patients of Magnetic Resonance Imaging Room (1st floor 84 anniversary) in 2019, classified by month (cont.)

Her Majesty Cardiac Center, Siriraj Hospital

Procedure MRI	Number of out-patients (person)											
	January			February			March			April		
	Clinic	After hr.	ward	Clinic	After hr.	ward	Clinic	After hr.	ward	Clinic	After hr.	ward
17. MRI Dobutamine+Vaibility	0	0	0	0	0	0	0	0	0	0	0	0
18. MRA Coronary	0	0	0	0	0	0	0	0	0	1	0	0
19. MRI Ischemia+Thalassemia	0	0	0	0	0	0	0	0	0	1	0	0
20. MRI Viability+Thalassemia	0	0	0	0	0	0	0	0	0	1	0	0
21. MRA upper Extremity	0	0	0	0	0	0	0	0	0	0	0	0
22. Dobutamine stress MRI	0	0	0	0	0	0	0	0	0	0	0	0
23. MRI Viability+MRA Coronary	0	0	0	0	0	0	0	0	0	0	0	0
24. MRI Ischemia + Coronary	0	0	0	0	0	0	0	0	0	0	0	0
25. MRI ARVD +MRA Coronary	0	0	0	0	0	0	0	0	0	0	0	0
26. MRI Congenital+PA	0	0	0	0	0	0	0	0	0	0	0	0
27. MRA PA+Coronary	0	0	0	0	0	0	0	0	0	0	0	0

Number of patients of Magnetic Resonance Imaging Room (1st floor 84 anniversary) in 2019, classified by month (cont.)
Her Majesty Cardiac Center, Siriraj Hospital

Procedure MRI	Number of out-patients (person)																			
	August			September			October			November			December			Total				
	Clinic	After hr.	ward	Clinic	After hr.	ward	Clinic	After hr.	ward	Clinic	After hr.	ward	Clinic	After hr.	ward					
1. MRA AORTA	1	0	0	1	3	0	0	1	0	1	3	0	0	3	0	0	20	0	29	
2. MRI Congenital	0	0	0	1	2	0	0	1	0	1	0	0	0	0	0	0	10	3	0	13
3. MRI Function	0	0	0	1	0	0	3	0	0	0	2	0	0	0	0	0	11	2	0	13
4. MRI Ischemia	56	94	0	51	77	0	42	91	0	49	92	0	40	68	0	546	979	3	1,528	
5. MRI TOF post op	6	1	0	4	1	0	9	1	0	5	4	0	6	1	0	69	21	3	93	
6. MRI Viability	4	3	0	5	5	2	12	4	0	6	1	1	4	1	4	71	40	13	124	
7. Thalassemia	16	4	0	18	8	0	19	6	0	25	6	0	22	0	0	286	61	0	347	
8. MRA Renal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
9. MRI Dobutamine	0	1	0	0	3	0	2	2	0	0	2	0	2	1	0	12	25	0	37	
10. MRI ARVD	2	0	0	0	0	0	1	0	0	0	1	0	1	0	0	8	3	0	11	
11. MRI ASD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
12. MRA AORTA+Renal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
13. MRA PA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	
14. MRI FONTAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
15. MRI Ischemia + Coronary	0	3	0	2	0	1	0	0	0	3	0	0	2	0	0	13	7	2	22	
16. MRA PV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	

Number of patients of Magnetic Resonance Imaging Room (1st floor 84 anniversary) in 2019, classified by month (cont.)
Her Majesty Cardiac Center, Siriraj Hospital

Procedure MRI	Number of out-patients (person)												Total							
	August			September			October			November				December						
	After hr.		ward	After hr.		ward	After hr.		ward	After hr.		ward		After hr.		ward				
	Clinic			Clinic			Clinic			Clinic				Clinic						
17. MRI Dobutamine+Vaibility	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	3	0	4
18. MRA Coronary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
19. MRI Ischemia+Thalassemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
20. MRI Viability+Thlassemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
21. MRA upper Extremity	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
22. Dobutamine stress MRI	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
23. MRI Viability+MRA Coronary	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1
24. MRI Ischemia + Coronary	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	0	0	3
25. MRI ARVD +MRA Coronary	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1
26. MRI Congenital+PA	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1
27. MRA PA+Coronary	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1

Note. Clinic (08:30-16:30)

After hours Clinic (From 16:30 pm. onwards)

ward : Pediatrics Bldg 5,6 floor., Anandamahidol Building 7th floor , Atsadang Building 12th floor

Number of out-patients of Cardiovascular Special Investigation (6th floor Her Majesty Cardiac Center) in 2019

Classified by month, Her Majesty Cardiac Center, Siriraj Hospital

List	Number of out-patients (person)																								Total																										
	January		February		March		April		May		June		July		August		September		October		November		December																												
	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special																											
	Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total																												
<u>Adult</u>																																																			
1. TTE	482	323	425	302	420	359	372	291	390	300	342	352	337	321	438	352	424	356	439	376	390	343	358	305	4,817	3,980	8,797																								
2. TEE	33	2	16	5	26	1	31	3	24	1	26	3	18	6	24	2	20	1	21	2	18	4	12	2	269	32	301																								
3. EST	71	86	56	64	65	82	59	78	46	66	44	95	56	94	63	84	53	78	52	91	50	91	50	77	665	986	1,651																								
4. DSE	20	0	11	0	11	0	15	0	18	0	23	0	18	0	20	0	19	0	25	0	18	0	16	0	214	0	214																								
5. TTT	16	0	10	0	11	0	9	0	9	0	3	0	7	0	14	0	10	0	11	0	11	0	8	0	119	0	119																								
6. ExSE	6	0	2	0	7	0	4	0	2	0	3	0	0	0	3	0	2	0	5	0	8	0	0	0	42	0	42																								
7. Holter	76	59	76	61	69	61	65	54	63	46	70	66	79	72	92	65	75	67	84	57	85	50	68	46	902	704	1,606																								
8. EKG	161	16	109	9	168	12	162	11	163	8	130	24	133	16	177	12	147	15	144	9	136	10	154	10	1,784	152	1,936																								
9. Follow up	17	0	16	0	11	0	16	0	18	0	21	0	16	0	30	0	25	0	19	0	22	0	19	0	230	0	230																								
10. 6 MWT	1	0	0	0	1	0	3	0	2	0	5	0	2	0	1	0	1	0	6	0	3	0	2	0	27	0	27																								
Total																									883	486	721	441	789	515	736	437	735	421	667	540	666	509	862	515	776	517	806	535	741	498	687	440	9,069	5,854	14,923

Number of out-patients of Cardiovascular Special Investigation (6th floor Her Majesty Cardiac Center) in 2019 (cont.)
Classified by month, Her Majesty Cardiac Center, Siriraj Hospital

List	Number of out-patients (person)																								Total		
	January		February		March		April		May		June		July		August		September		October		November		December			Total	
	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special	Clinic	Special		Clinic	Special
Pediatric																											
1. TTE	247	97	192	78	206	102	209	98	224	120	224	109	249	90	238	89	274	68	212	95	303	81	221	57	2,799	1,084	3,883
2. TEE	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	4	4
3. EST	7	0	5	0	6	0	9	0	9	1	4	0	2	0	2	0	1	0	3	0	7	1	1	0	56	2	58
4. TTT	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
5. Fetal Echo	0	0	3	0	0	2	0	0	2	0	4	0	0	0	0	0	0	2	0	3	0	0	0	0	3	13	16
6. Holter	5	2	7	1	16	0	7	1	14	0	11	0	7	1	10	3	5	1	16	2	9	7	3	0	110	18	128
7. EKG	14	1	13	0	7	1	10	1	10	3	22	5	8	0	2	1	16	0	10	0	8	0	25	1	145	13	158
8. Follow up	1	0	1	0	0	0	3	0	0	0	2	0	2	0	2	0	1	0	0	0	2	0	3	0	17	0	17
9. 6 MWT	0	0	1	0	7	0	4	0	0	0	5	0	1	0	1	0	0	0	6	0	0	0	5	0	30	0	30
Total	274	101	222	79	242	106	242	100	257	126	268	118	269	91	255	93	297	71	247	101	329	90	258	58	3,160	1,134	4,294
Total	1,157	587	943	520	1,031	621	978	537	992	547	935	658	935	600	1,117	608	1,073	588	1,053	636	1,070	588	945	498	12,229	6,988	19,217

Note: Clinic (08:30-16:30)

Special Clinic (From 16:30 am onwards)

Number of in-patients in 2019, Classified by ward

Her Majesty Cardiac Center, Siriraj Hospital

Month	Ward		Total
	Post-Intermediate ward	Intermediate Cardiac	
	(5 th floor)	ward (8 th floor)	
January	66	243	309
February	48	221	269
March	65	253	318
April	66	217	283
May	57	237	294
June	58	240	298
July	56	252	308
August	47	261	308
September	61	247	308
October	61	230	291
November	62	251	313
December	61	205	266
Total	708	2,857	3,565

Number of In-patients of Post-Intermediate ward (5th floor Her Majesty Cardiac Center) in 2019, classified by Service Unit
Her Majesty Cardiac Center, Siriraj Hospital

Service Unit	Number of patients												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
MI	0	1	1	0	1	0	0	0	0	0	0	0	3
ACS	0	0	0	0	0	1	0	0	0	0	0	0	1
PCI/CAG	15	4	5	12	10	8	7	3	3	7	5	3	82
RFCA/Device	5	3	1	2	2	3	0	0	0	0	1	0	17
Pacemaker	0	0	0	0	0	0	0	0	0	0	0	2	2
Heart cath Device	0	0	0	0	0	0	2	0	0	1	1	0	4
PTA	0	0	0	0	0	0	0	0	0	1	1	0	2
TAVI	0	0	0	0	0	0	0	0	0	0	0	1	1
IABP insertion	0	0	0	0	0	0	0	0	0	0	1	0	1
Post-Intermediate ward (5 th floor)	24	20	27	34	27	27	27	24	22	22	22	23	299
OR Syamindra 5 th floor	16	12	20	11	8	8	8	22	18	27	23	24	197
Total	60	40	54	59	48	47	44	49	43	58	54	53	609

Number of In-patients of Intermediate Cardiac ward (8th floor) in 2019, classified by month
Her Majesty Cardiac Center, Siriraj Hospital

Service Unit	Number of patients												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
ACS*	0	0	1	0	0	0	1	3	5	1	1	2	14
PCI/CAG*	145	129	157	124	155	161	160	182	168	158	170	147	1,856
RFCA/Device*	52	47	44	41	39	34	48	38	37	39	32	31	482
Pediatrics	11	16	21	14	10	14	15	8	9	8	16	11	153
Post-Intermediate ward (5 th floor)	17	12	17	18	16	13	15	14	14	12	15	11	174
ICU	4	3	0	0	4	1	4	1	3	1	5	0	26
Other	1	3	0	2	0	2	1	1	2	0	1	0	13
Total	230	210	240	199	224	225	244	247	238	219	240	202	2,718

Note: " * " from Cardiovascular Intervention

Statistics of Pharmacy Division

Number of services in 2019, classified by type of services, Siriraj Hospital

Services	Unit	Number
1. Total number of prescription dispensed (OPD)	sheet	1,104,391
2. Total number of prescription dispensed (IPD)	sheet	2,583,972
3. Total prescription dispensed (Special clinic)	sheet	620,643
4. Total number of Siriraj manufacturing product	item	3,101,924
5. Total number of Siriraj drug formula	item	277
6. Total sale of Siriraj Formularies project	bath	71,104,681
7. Total amount of sterile drug production	dose	343,610
8. Cost saving from sterile drug production	bath	15,052,030
9. Total number of drug preparation for children	dose	55,255
10. Total number of postal drug delivery	time	9,888
11. Monthly Inventory as of September 2016		
11.1 Medical supplies inventory (only main store) ($\leq$ 15 days)	day	20.74
11.2 Drug inventory (only main store) ($\leq$ 15 days)	day	26.13
11.3 Total hospital inventory (all store) ($\leq$ 30 days)	day	40.43
12. Number of drugs in Siriraj hospital	list	3,001
12.1 Essential drugs	list	1,689
12.2 Non-essential drug	list	1,312
13. Drug use ratio by cost		
13.1 Essential drugs	percent	46%
13.2 Non-essential drug	percent	54%
14. Prescribing restriction policy		
14.1 Number of restricted drug for specialist	list	1,059
14.2 Number of restricted drug by indication	list	152
14.3 Number of restricted drug that needs prescribing document	list	168
14.4 Number of restricted drug that needs document for reimbursement	list	223
14.5 Number of restricted drug that can be reimbursed for OPD only	list	114
14.6 Number of restricted drug that can be reimbursed for IPD only	list	62
14.7 Number of restricted drug that cannot be reimbursed	list	697
15. Number of patients counselling by pharmacists	visits	45,374
16. Number of the prevention for repeated drug hypersensitivity	services	4,626

Statistics of Nutrition Department

Number of services patients in 2019, classified by patient's type, Siriraj Hospital

Year	Number of services				Total (set)
	Private patient	Common patient	Milk stock for children	Tube feeding	
	(set)	(set)	(bottle)	(meal)	
2016	505,009	768,909	480,149	341,754	2,095,821
2017	583,617	1,124,953	481,396	203,231	2,393,197
2018	499,916	995,610	485,799	303,264	2,284,589
2019	511,692	732,288	544,787	230,809	2,019,576

Number of academic performance, classified by services in 2019

Nutrition Department, Siriraj Hospital

Academic Performance	Number of services
1. Provide counseling and teach patient's relatives how to prepare tube feeding	412 persons
2. Provide counseling on nutrition and nutrition support at Nutrition Department and via telephone	24 case
3. Nutritional education for patients and relatives	1,207 case
4. Be apart of Multidisciplinary team to provide counseling on nutrition and nutrition support	647 case
5. Nutrition Assessment by Modified Nutrition Alert Form	1,827 case
6. Formulate teaching media for knowledge dissemination such as poster and leaflet with modern form	

Statistics Toxicology Division

Number of clinical toxicology laboratory tests classified by list in 2019, Siriraj Hospital

List	Number of test																								
	January		February		March		April		May		June		July		August		September		October		November		December		Total
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	
1. Drug level	538	761	473	645	538	806	448	750	553	778	462	725	517	780	481	771	440	758	617	779	534	706	373	732	14,965
2. Transplant	769	136	877	18	905	149	827	128	735	142	721	155	844	135	691	136	770	141	894	167	732	101	790	151	11,114
3. Screening test	1	0	1	0	2	0	2	0	1	0	7	1	2	1	0	1	1	1	6	3	1	1	2	2	36
4. Drug abuse	124	129	170	144	133	133	155	207	280	164	236	212	208	251	184	214	160	189	171	170	208	205	167	166	4,380
5. Metals	148	75	156	43	183	82	174	60	175	77	139	64	148	58	185	68	232	36	219	44	535	45	190	49	3,185
6. UPLC	84	0	149	0	91	0	197	0	113	0	103	0	151	0	216	0	301	0	259	0	182	0	284	0	2,130
7. GC-MS	108	0	141	0	149	0	116	0	123	0	129	0	186	0	176	0	137	0	205	0	196	0	156	0	1,822
Total	1,772	1,101	1,967	850	2,001	1,170	1,919	1,145	1,980	1,161	1,797	1,157	2,056	1,225	1,933	1,190	2,041	1,125	2,371	1,163	2,388	1,058	1,962	1,100	37,632
Total	2,873		2,817		3,171		3,064		3,141		2,954		3,281		3,123		3,166		3,534		3,446		3,062		37,632

Number of samples laboratory of Clinical Toxicology in 2019, classified by list

Toxicology Division, Siriraj Hospital

List	Number of test																							
	January		February		March		April		May		June		July		August		September		October		November		December	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
1. Clotted blood	674	834	616	685	694	882	607	807	705	849	581	784	653	836	658	834	654	788	795	820	700	751	545	780
2. EDTA	772	136	882	18	922	149	835	128	749	142	731	155	851	135	694	136	779	141	924	167	1,093	101	798	151
3. Urine	126	128	172	144	138	134	155	207	277	166	237	211	214	247	187	214	163	188	173	172	232	205	167	168
4. Urine 24 hr.	6	2	4	3	2	5	6	3	6	4	3	2	5	2	5	5	7	5	6	3	6	0	9	1
5. Toxin	9	1	13	0	23	0	10	0	9	0	33	2	10	1	7	1	1	2	30	0	2	0	8	0
6. Gas L.	5	0	1	0	2	0	1	0	1	0	0	1	0	4	1	0	0	1	0	0	2	0	1	0
7. Heparin	170	0	273	0	212	0	296	0	226	0	207	0	320	0	372	0	425	0	437	0	343	0	426	0
8. All type	7	0	3	0	6	0	9	0	5	0	4	0	3	0	9	0	10	0	6	1	8	1	7	0
Total	1,769	1,101	1,964	850	1,999	1,170	1,919	1,145	1,978	1,161	1,796	1,155	2,056	1,225	1,933	1,190	2,039	1,125	2,371	1,163	2,386	1,058	1,961	1,100
Total	2,870	2,814	3,169	3,064	3,139	2,951	3,281	3,123	3,164	3,534	3,444	3,061	3,707	3,614	3,707	3,614	3,707	3,614	3,707	3,614	3,707	3,614	3,707	3,614

Number of samples laboratory of Clinical Toxicology in 2019, classified by list (cont.)

Toxicology Division, Siriraj Hospital

List	Sample	Number of test																								Total	
		January		February		March		April		May		June		July		August		September		October		November		December			
		In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out		
Drug level																											
1.	Antidepressants (TCA)	clotted blood	5	6	1	3	1	2	4	4	2	0	6	2	1	4	3	2	2	2	5	3	7	3	3	3	74
2.	Benzodiazepine	clotted blood	57	8	39	2	63	3	53	7	56	2	58	2	38	4	54	4	39	1	68	5	42	5	23	2	635
3.	Carbamazepine	clotted blood	13	8	8	4	10	2	5	10	6	3	5	4	10	1	9	5	15	3	10	5	15	5	7	9	172
4.	Digoxin	clotted blood	11	16	10	8	13	12	12	7	5	3	10	8	11	18	6	18	5	7	6	10	6	8	4	5	219
5.	Homocysteine	clotted blood	6	3	5	1	6	5	3	2	9	4	8	4	8	3	12	5	6	1	46	2	32	5	7	0	183
6.	Methotrexate	clotted blood	73	120	74	116	69	115	37	133	80	118	61	99	48	90	44	112	59	118	73	102	71	118	32	95	2,057
7.	Na Valproate	clotted blood	110	93	92	78	113	107	94	69	122	87	98	108	114	99	101	105	81	90	124	115	119	102	90	98	2,409
8.	Paracetamol	clotted blood	4	12	4	4	3	12	4	12	2	9	5	6	7	12	4	15	2	13	6	17	3	20	4	5	185
9.	Phenobarbital	clotted blood	26	36	21	23	25	19	17	13	28	29	17	26	22	19	19	13	10	15	27	12	17	17	17	15	483
10.	Phenytoin	clotted blood	88	188	89	177	87	217	78	142	87	154	73	148	95	174	102	191	95	203	112	222	76	158	85	187	3,228
11.	Salicylate	clotted blood	0	0	0	0	0	0	4	0	2	2	1	4	1	0	0	1	2	0	3	0	1	0	3	1	25
12.	Theophylline	clotted blood	12	17	3	9	4	14	5	14	7	20	7	9	7	10	12	12	5	6	1	6	10	11	7	15	223
13.	Vancomycin (Peak)	clotted blood	1	1	1	1	1	0	2	2	0	1	1	2	0	0	0	2	0	2	2	3	2	0	0	3	27
Vancomycin (Trough)		clotted blood	132	253	126	219	143	298	130	335	147	346	112	303	155	346	115	286	119	297	134	277	133	254	91	294	5,045
Total		538	761	473	645	538	806	448	750	553	778	462	725	517	780	481	771	440	758	617	779	534	706	373	732	14,965	
Total		1,299	1,118	1,344	1,198	1,331	1,187	1,297	1,252	1,198	1,396	1,240	1,105	1,240	1,105	1,240	1,105	1,240	1,105	1,240	1,105	1,240	1,105	1,240	1,105	1,240	14,965

Number of samples laboratory of Clinical Toxicology in 2019, classified by list (cont.)

Toxicology Division, Siriraj Hospital

List	Sample	Number of test																								Total	
		January		February		March		April		May		June		July		August		September		October		November		December			
		In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out		
<u>Transplant</u>																											
1.	Cyclosporine	79	46	95	17	139	29	71	43	76	53	95	47	101	53	72	46	89	65	105	61	146	14	148	28	1,718	
2.	Everolimus	165	20	133	1	130	17	132	11	116	12	119	16	176	12	117	14	131	9	150	14	112	8	122	11	1,748	
3.	Sirolimus	22	3	20	0	25	6	21	3	19	2	20	7	20	7	17	3	23	5	19	6	10	1	9	4	272	
4.	Tacrolimus	503	67	629	0	611	97	603	71	524	75	487	85	547	63	485	73	527	62	620	86	464	78	511	108	7,376	
Total		769	136	877	18	905	149	827	128	735	142	721	155	844	135	691	136	770	141	894	167	732	101	790	151	11,114	
Total		905		895		1,054		955		877		876		979		827		911		1,061		833		941		11,114	

Number of samples laboratory of Clinical Toxicology in 2019, classified by list (cont.)

Toxicology Division, Siriraj Hospital

List	Sample	Number of test																								Total	
		January		February		March		April		May		June		July		August		September		October		November		December			
		In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out		
Screening test (Qualitative)																											
1. Arsenic	Toxin	0	0	0	0	2	0	0	0	0	0	6	0	0	0	0	0	0	0	5	0	0	0	0	0	13	
2. Cholinesterase	clotted blood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
3. Cyanide	Toxin	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	
4. Paracetamol	Gas L.	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
Paracetamol	Urine	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	1	0	0	1	0	1	0	6	
5. Paraquat	Gas L.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Paraquat	Urine	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	2	0	0	0	2	8	
6. Salicylate	Toxin	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	
Salicylate	Urine	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	3	
Total		1	0	1	0	2	0	2	0	1	0	7	1	2	1	0	1	1	1	6	3	1	1	2	2	36	
Total		1		1		2		2		1		8		3		1		2		9		2		4		36	

Number of samples laboratory of Clinical Toxicology in 2019, classified by list (cont.)

Toxicology Division, Siriraj Hospital

List	Sample	Number of test																								Total	
		January		February		March		April		May		June		July		August		September		October		November		December			
		In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out		
Narcotic																											
1. Amphetamine	Gas L.	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
Amphetamine	Toxin	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
Amphetamine	Urine	63	66	90	75	63	56	86	85	157	94	126	104	100	103	80	97	84	95	79	72	96	89	78	77	2,115	
2. Antidepressants (TCA)	Gas L.	2	0	1	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	6
Antidepressants (TCA)	Toxin	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
Antidepressants (TCA)	Urine	2	2	0	3	1	1	3	1	1	3	3	2	5	3	7	3	2	3	8	4	10	3	4	5	79	
3. Benzodiazepine	Gas L.	2	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	1	0	0	8
Benzodiazepine	Toxin	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	2
Benzodiazepine	Urine	5	1	7	3	6	5	7	4	2	3	7	3	1	2	4	2	5	5	7	3	10	3	1	2	98	
4. Cannabinoid	Gas L.	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
Cannabinoid	Toxin	0	0	0	0	0	0	1	0	2	0	0	1	0	1	2	1	0	1	0	0	1	0	0	0	0	10
Cannabinoid	Urine	24	34	38	35	33	40	29	66	59	35	49	53	55	74	46	61	35	48	39	48	47	58	40	50	1,096	
5. Opiates	Gas L.	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Opiates	Toxin	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	3
Opiates	Urine	26	25	34	28	28	31	28	51	53	29	51	48	47	65	44	50	34	35	38	43	42	52	43	32	957	
Total		124	129	170	144	133	133	155	207	280	164	236	212	208	251	184	214	160	189	171	170	208	205	167	166	4,380	
Total		253		314		266		362		444		448		459		398		349		341		413		333		4,380	

Number of samples laboratory of Clinical Toxicology in 2019, classified by list (cont.)

Toxicology Division, Siriraj Hospital

List	Sample	Number of test																								Total	
		January		February		March		April		May		June		July		August		September		October		November		December			
		In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out		
Metals																											
1. Aluminium	clotted blood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	3
2. Arsenic	Urine	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3
3. Cadmium	EDTA	0	0	1	0	0	0	1	0	0	0	2	0	0	0	1	0	2	0	5	0	180	0	0	0	0	192
Cadmium	Urine	0	0	0	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4. Chromium	EDTA	0	0	1	0	7	0	2	0	9	0	2	0	4	0	0	0	0	0	7	0	0	0	1	0	0	33
5. Copper	clotted blood	28	13	32	8	36	19	34	12	38	18	23	15	34	17	62	19	65	4	47	10	40	10	51	12	647	
Copper	Urine	1	0	1	0	0	1	0	0	0	2	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	8
Copper	Urine 24 hr.	6	2	4	3	2	5	6	3	6	4	3	2	5	2	5	5	7	5	6	3	6	0	9	1	100	
6. Iron	clotted blood	1	0	0	1	5	0	4	2	1	1	1	0	2	0	0	1	0	1	2	1	0	0	0	0	0	23
7. Lead	EDTA	3	0	2	0	6	0	5	0	5	0	6	0	2	0	2	0	7	0	16	0	180	0	7	0	241	
Lead	Toxin	0	0	0	0	2	0	1	0	0	0	6	0	0	0	0	0	0	0	5	0	0	0	0	0	14	
8. Lithium	clotted blood	38	25	36	8	50	9	49	14	37	11	43	11	42	8	42	9	57	13	52	10	48	10	47	11	680	
9. Magnesium (Mg)	clotted blood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
10. Manganese (Mn)	EDTA	0	0	1	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	1	0	0	0	9	
11. Mercury (Hg)	Urine	1	0	2	0	0	0	0	0	2	0	0	1	0	0	0	0	1	0	0	0	2	0	1	0	10	
12. Zinc	clotted blood	69	35	75	23	65	48	72	29	76	41	52	33	58	31	72	33	90	12	77	20	78	25	73	25	1,212	
Zinc	Urine	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	
Total		148	75	156	43	183	82	174	60	175	77	139	64	148	58	185	68	232	36	219	44	535	45	190	49	3,185	
Total		223		199		265		234		252		203		206		253		268		263		580		239		3,185	

Number of samples laboratory of Clinical Toxicology in 2019, classified by list (cont.)

Toxicology Division, Siriraj Hospital

List	Sample	Number of test																								Total	
		January		February		March		April		May		June		July		August		September		October		November		December			
		In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out		
		In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out		
UPLC																											
1.	Gliclazide	Heparin	0	0	0	0	0	0	2	0	1	0	4	0	2	0	1	0	2	0	1	0	1	0	3	0	17
2.	Glimepiride	Heparin	0	0	0	0	0	0	2	0	1	0	4	0	2	0	1	0	2	0	1	0	1	0	3	0	17
3.	Glipizide	Heparin	0	0	0	0	0	0	2	0	1	0	4	0	2	0	1	0	2	0	1	0	1	0	3	0	17
4.	Itraconazole	Heparin	14	0	10	0	8	0	14	0	10	0	12	0	17	0	17	0	14	0	23	0	14	0	24	0	177
5.	Mycophenolic acid	Heparin	4	0	74	0	12	0	114	0	24	0	12	0	16	0	134	0	211	0	177	0	93	0	180	0	1,051
6.	Posaconazole	Heparin	13	0	10	0	16	0	13	0	31	0	16	0	13	0	8	0	10	0	15	0	26	0	20	0	191
7.	Voriconazole	Heparin	53	0	55	0	55	0	50	0	45	0	51	0	99	0	54	0	60	0	41	0	46	0	51	0	660
Total			84	0	149	0	91	0	197	0	113	0	103	0	151	0	216	0	301	0	259	0	182	0	284	0	2,130
Total			84		149		91		197		113		103		151		216		301		259		182		284		2,130

Number of samples laboratory of Clinical Toxicology in 2019, classified by list (cont.)

Toxicology Division, Siriraj Hospital

List		Sample	Number of test																								Total
			January		February		March		April		May		June		July		August		September		October		November		December		
			In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	
GC-MS																											
1.	Alcohols screening	All type	2	0	0	0	1	0	4	0	4	0	2	0	2	0	2	0	2	0	0	0	3	0	6	0	28
2.	Amphetamine (confirm)	Urine	3	0	0	0	2	0	1	0	3	0	0	0	0	0	2	0	1	0	0	0	15	0	0	0	27
3.	Barbiturates screening	All type	1	0	1	0	1	0	5	0	0	0	1	0	0	0	0	0	0	0	2	0	1	0	0	0	12
4.	Busulfan	Heparin	0	0	0	0	0	0	0	0	0	8	0	7	0	0	0	3	0	26	0	37	0	6	0	87	
5.	Cyanide	All type	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0	4	
6.	Dopamine	Heparin	4	0	4	0	1	0	3	0	3	0	6	0	8	0	8	0	5	0	5	0	5	0	8	0	60
7.	Hippuric acid	Urine	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
8.	Metanephrine	Heparin	41	0	60	0	60	0	49	0	58	0	45	0	77	0	74	0	58	0	74	0	60	0	64	0	720
9.	Methamphetamine	Urine	2	0	1	0	1	0	0	0	0	0	0	0	4	0	4	0	1	0	1	0	11	0	0	25	
(confirm)																											
10.	Normetanephrine	Heparin	41	0	60	0	60	0	47	0	52	0	45	0	77	0	74	0	58	0	73	0	59	0	64	0	710
11.	Organochlorine	All type	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
screening																											
12.	Organonitrogen	All type	1	0	1	0	2	0	0	0	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0	9	
screening																											

Number of samples laboratory of Clinical Toxicology in 2019, classified by list (cont.)

Toxicology Division, Siriraj Hospital

List	Sample	Number of test																								Total
		January		February		March		April		May		June		July		August		September		October		November		December		
		In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	
GC-MS																										
13. Organophosphorous screening	All type	2	0	1	0	2	0	0	0	0	0	0	0	0	0	4	0	0	0	1	0	2	0	0	0	12
14. Paraquat	All type	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	6	0	0	0	0	0	0	0	8
15. Steroids	Toxin	9	0	13	0	19	0	7	0	2	0	21	0	10	0	5	0	1	0	20	0	1	0	7	0	115
16. Volatile Organic Compounds	All type	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Total																										
Total																										
Total Test																										

Number of the response to the question about drugs in 2019, classified by genre questioner

Toxicology Division, Siriraj Hospital

Genre Questioner	Number of answer questions																								Total	
	January		February		March		April		May		June		July		August		September		October		November		December			
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out		
1. Doctor																										
In Siriraj Hospital	152	170	136	142	138	108	139	161	182	175	180	117	201	116	177	186	139	190	115	102	98	87	161	123	3,495	
Outside Siriraj Hospital	3	9	0	2	2	1	1	1	2	4	2	0	7	9	2	0	0	4	28	12	18	25	15	16	163	
2. Pharmacist																										
In Siriraj Hospital	75	126	89	88	79	105	73	77	116	80	102	53	105	45	71	60	44	134	85	74	82	65	95	86	2,009	
Outside Siriraj Hospital	9	24	9	23	12	20	17	22	23	20	34	31	24	14	15	19	12	16	10	22	18	23	12	29	458	
3. Nurse																										
In Siriraj Hospital	340	618	359	480	300	667	314	512	469	508	500	383	505	325	465	476	306	442	361	375	284	205	385	278	9,857	
Outside Siriraj Hospital	0	8	1	3	2	11	3	1	9	15	0	0	3	6	13	6	1	2	25	38	24	20	25	19	235	
4. Medical personnel																										
In Siriraj Hospital	21	4	2	9	5	4	15	11	8	5	28	36	10	23	4	24	18	19	31	26	15	16	32	13	379	
Outside Siriraj Hospital	4	0	3	11	0	2	0	0	3	0	4	2	10	2	0	1	5	14	12	23	16	9	18	17	156	
5. People	233	360	255	254	372	534	157	312	184	268	239	304	206	223	222	281	146	325	377	278	350	305	394	345	6,924	
Total	837	1,319	854	1,012	910	1,452	719	1,097	996	1,075	1,089	926	1,071	763	969	1,053	671	1,146	1,044	950	905	755	1,137	926	23,676	
Number of questions	2,156		1,866		2,362		1,816		2,071		2,015		1,834		2,022		1,817		1,994		1,660		2,063		23,676	

Number of the response to the question about drugs in 2019, classified by questions

Toxicology Division, Siriraj Hospital

Type of questions	Number of answer questions																								Total
	January		February		March		April		May		June		July		August		September		October		November		December		
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	
1. ADR	60	111	70	95	105	144	65	95	79	80	88	75	102	64	98	91	62	125	45	62	57	78	57	87	1,995
2. Availability	85	84	90	68	61	65	45	63	76	85	70	69	78	52	57	71	57	54	56	42	39	21	75	45	1,508
3. Compat./Stab.	122	338	137	247	148	323	163	228	223	236	257	174	232	132	239	231	116	235	275	255	235	206	302	186	5,240
4. Cost	38	26	29	21	29	15	21	48	10	38	20	32	19	34	22	47	15	37	35	31	25	19	34	25	670
5. Dosage/Adm.	175	378	179	295	190	384	153	316	282	259	299	231	269	195	250	259	168	292	305	312	275	212	312	298	6,288
6. Herbal/Conv.med	7	2	6	0	1	3	5	4	8	5	19	10	10	11	8	10	9	7	9	5	2	1	8	4	154
7. Identification	42	30	40	28	34	35	20	30	23	42	18	42	24	25	23	40	23	31	12	9	5	2	1	5	584
8. Interactions	31	48	27	28	35	41	41	53	25	54	44	37	29	36	26	47	33	59	25	21	24	15	29	18	826
9. Law/Policy	104	74	93	55	126	232	50	98	76	89	73	72	74	62	64	80	56	76	32	31	27	35	41	27	1,747
10. Pharmacokinetics	9	26	18	17	18	13	18	11	15	18	8	25	19	20	7	16	23	17	15	9	7	5	18	9	361
11. Pharmaceuticals	58	55	55	48	77	91	55	35	49	48	65	54	60	52	52	53	34	69	9	3	2	0	9	3	1,036
12. Preg.& Lact.	12	21	12	24	15	9	21	11	17	27	23	15	34	15	22	24	6	21	28	14	6	5	32	6	420
13. Ther.use/Efficacy	94	126	98	86	71	97	62	105	113	94	105	90	121	65	101	84	69	123	198	156	201	156	219	213	2,847
Total	837	1,319	854	1,012	910	1,452	719	1,097	996	1,075	1,089	926	1,071	763	969	1,053	671	1,146	1,044	950	905	755	1,137	926	23,676
Number of questions	2,156		1,866		2,362		1,816		2,071		2,015		1,834		2,022		1,817		1,994		1,660		2,063		23,676

Number of questions answered of toxicology in 2019, classified by vocation consultant type

Toxicology Division, Siriraj Hospital

Consultant	Number of answer questions																								Total	
	January		February		March		April		May		June		July		August		September		October		November		December			
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out		
1. Doctor	43	86	33	63	36	97	41	101	52	124	27	57	30	86	40	101	35	97	52	90	55	99	38	68	1,551	
2. Pharmacist	1	0	1	0	1	1	0	0	2	0	0	0	1	0	0	0	1	1	0	1	0	1	1	0	12	
3. Nurse	1	1	1	1	0	2	2	1	1	1	0	0	1	0	1	0	1	0	0	1	2	3	0	1	1	21
4. People	1	0	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Total	46	87	36	65	37	100	43	103	56	125	28	57	32	86	41	101	36	98	53	93	58	100	40	69	1,590	

Number of questions answered of toxicology in 2019, classified by age of patients receiving toxic

Toxicology Division, Siriraj Hospital

Age	Number of answer questions																								Total
	January		February		March		April		May		June		July		August		September		October		November		December		
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	
15 years up	32	72	26	47	27	85	28	65	40	87	21	45	26	16	31	84	26	73	38	64	39	77	29	55	1,133
Less than 15 years	13	15	8	18	9	14	5	24	5	19	5	12	5	70	10	17	10	25	10	14	16	13	7	11	355
Information	1	0	2	0	1	1	10	14	11	19	2	0	1	0	0	0	0	0	5	15	3	10	4	5	104
Total	46	87	36	65	37	100	43	103	56	125	28	57	32	86	41	101	36	98	53	93	58	100	40	71	1,592

Number of questions answered of toxicology in 2019, classified by types of toxins

Toxicology Division, Siriraj Hospital

Toxins	Number of answer questions																							
	January		February		March		April		May		June		July		August		September		October		November		December	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
1. Drug / Medical products	21	42	17	27	15	52	21	48	24	57	20	21	13	44	24	54	13	43	43	83	41	73	24	40
2. Insecticides and other pesticides	6	12	5	5	4	12	3	6	5	16	2	6	4	6	2	13	2	10	10	8	4	7	4	6
3. Herbicides	2	5	5	4	2	3	2	2	3	9	1	2	4	4	4	7	6	8	3	9	6	8	4	5
4. Household products	3	14	0	16	10	15	4	21	3	12	1	12	8	11	3	12	4	14	5	9	11	22	7	14
5. Poisonous animals	1	1	1	3	1	4	3	2	4	4	0	4	1	4	2	2	1	3	0	3	4	4	1	1
6. Poisonous plants	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	1	2	1	1	1
7. Mushroom toxins	0	0	0	0	1	0	0	0	1	3	1	0	0	1	1	4	0	4	2	2	0	1	0	1
8. Food toxin and contamination	3	0	2	0	0	1	0	1	0	2	0	0	0	1	0	0	1	0	1	1	0	1	0	0
9. Hydrocarbon	4	4	1	0	1	2	2	7	0	0	0	2	0	3	2	0	2	5	0	6	1	3	0	2
10. Abuse agent and toxic alcohol	0	2	1	4	0	5	4	3	5	4	1	1	0	2	0	3	3	6	3	8	2	8	2	6
11. Other	6	7	4	5	3	6	4	11	11	18	2	7	2	10	3	6	4	5	1	9	4	4	4	12
Total	46	87	36	65	37	100	43	103	56	125	28	57	32	86	41	101	36	98	68	139	75	132	47	88
Number of questions	133		101		137		146		181		85		118		142		134		207		207		135	
TDM	12	0	6	0	10	0	7	2	13	7	8	3	17	9	15	4	7	7	6	4	6	0	3	5

Statistics of Siriraj Organ Transplant
Number of services in 2019, classified by services category
Organ transplantation clinic, Siriraj Hospital

Month	Pre - Post Heart Tx		Pre - Post Liver Tx		Post Kidney Tx		Pre Kidney Tx		Pre - Post Liver Pediatric Tx	
	visits	services	visits	services	visits	services	visits	services	visits	services
January	3	18	4	108	4	394	4	113	2	10
February	4	24	4	94	3	343	4	128	2	9
March	4	16	4	107	4	384	4	103	2	9
April	3	27	3	106	4	404	3	100	2	10
May	3	8	2	89	4	371	5	110	2	10
June	3	13	3	98	4	379	3	64	2	12
July	3	21	4	96	4	429	4	115	2	13
August	3	19	3	103	4	311	5	130	2	6
September	5	27	5	132	4	396	3	75	2	11
October	3	33	3	101	5	412	3	78	2	17
November	4	25	4	111	4	348	4	107	1	3
December	4	25	4	104	3	333	4	106	2	9
Total	42	256	43	1,249	47	4,504	46	1,229	23	119

Statistics of Research Center for Nutritional Support

Number of consulted patients in 2019, classified by patient's type, Siriraj Hospital

Patient's type	Unit	Number
1. In-patients (adult only) consult for nutrition support	visits	484
2. Out-patients at Nutritional clinic	services	957
3. In and out-patients received nutrition advice before and after bariatric surgery	services	486
4. Out-patients consult for psychiatric TMHQ screening before bariatric surgery	visits	63
5. In and out patients consult for Body Composition test (BIA)	services	799
6. In and out patients consult for Indirect Calorimetry test (Metabolic test)	services	46
7. Service of enteral feeding pump	services	2,804
8. Service of energy composition analysis by bomb calorimeter method	services	237

Statistics of Patient Transfer Division

Number of providing moving services in 2019, classified by type of services, Siriraj Hospital

Type of Services	Number of offers (travel)												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
1. Moving patients													
1.1 Out-Patients	146,962	137,165	140,251	123,213	145,995	135,418	135,999	150,604	139,465	103,318	107,762	109,773	1,575,925
1.2 In-Patients	28,886	27,924	30,370	24,651	28,646	28,605	26,054	28,301	28,201	27,322	33,790	26,919	339,669
1.3 Surgery patients	7,510	7,964	8,224	5,950	8,299	8,453	7,205	7,638	7,143	7,874	7,785	6,745	90,790
1.4 Emergency patients	543	400	446	393	440	567	418	409	388	491	508	429	5,432
2. Receiving - sending specimens	6,235	5,691	6,360	5,562	6,390	6,797	6,113	7,025	5,325	6,522	6,314	5,916	74,250
3. Moving the deceased	156	135	146	139	142	150	146	134	156	170	164	138	1,776
Total	190,292	179,279	185,797	159,908	189,912	179,990	175,935	194,111	180,678	145,697	156,323	149,920	2,087,842

Statistics of Medical Record Division

Number of new patient registration in 2019, classified by type of registration

Out patient Medical Record Unit, Siriraj Hospital

Month	Number of New patient registration		Total
	Walk in	Online	
January	7,566	2,965	10,531
February	6,408	2,440	8,848
March	7,088	2,717	9,805
April	6,491	3,082	9,573
May	7,055	3,290	10,345
June	7,216	3,308	10,524
July	7,430	3,343	10,773
August	7,608	3,267	10,875
September	6,884	2,917	9,801
October	7,313	2,882	10,195
November	6,465	2,727	9,192
December	5,807	2,475	8,282
Total	83,331	35,413	118,744

Number of data retrieving services regarding birth - death in 2019, classified by month

Out patient Medical Record Unit, Medical Record Division, Siriraj Hospital

Month	Number of data retrieving services		Total
	Birth	Dead	
January	2	2	4
February	4	4	8
March	9	3	12
April	3	5	8
May	7	4	11
June	4	4	8
July	4	3	7
August	2	5	7
September	7	4	11
October	4	2	6
November	1	1	2
December	5	4	9
Total	52	41	93

Number of informed services regarding birth - death in 2019, classified by gender

Out patient Medical Record Unit, Siriraj Hospital

Month	Certificate of Birth			Certificate of Death		
	Male	Female	Total	Male	Female	Total
January	331	297	628	91	106	197
February	263	266	529	107	73	180
March	317	280	597	88	97	185
April	308	275	583	118	125	243
May	317	306	623	95	104	199
June	308	286	594	117	73	190
July	336	285	621	102	96	198
August	316	309	625	73	63	136
September	338	293	631	103	87	190
October	321	292	613	110	105	215
November	281	282	563	102	95	197
December	282	244	526	94	98	192
Total	3,718	3,415	7,133	1,200	1,122	2,322

Number of working in 2019, classified by working category

Medical Coding Unit, Medical Record Division, Siriraj Hospital

List	Number of copy
1. Provide and record ICD code in the out-patient medical record	3,838,210
2. Scan the out-patient medical record document at the medical unit	3,838,210
3. Check the ICD coding in the out-patient medical record	11,040
4. Check the ICD coding in the in-patient medical record	1,152
5. Completeness evaluation of out-patient medical record (MRA) according to the NHSO manual	40
6. Completeness evaluation of in-patient medical record (MRA) according to the NHSO manual	480

Number of services for the request of medical history through Office of the Director

Classified by the objective of client in 2019

In Patients Medical Record Unit, Medical Record Division, Siriaj Hospital

Month	The objective of client (Topic)						Total
	Life assurance	Writs	Social welfare	Continuing care	Claim the treatment cost	Other	
January	150	1	15	18	5	4	193
February	153	1	7	17	9	13	200
March	150	0	13	13	7	17	200
April	152	0	12	26	2	11	203
May	184	0	15	15	3	9	226
June	175	0	13	21	3	19	231
July	168	0	17	20	5	17	227
August	138	1	15	20	4	25	203
September	167	0	21	17	2	17	224
October	151	0	21	24	2	15	213
November	123	0	19	10	5	15	172
December	168	0	14	10	0	19	211
Total	1,879	3	182	211	47	181	2,503

Number of medical statistics services in 2019, classified by the client's objective

Medical Statistics Reporting Unit, Medical Record Division, Siriaj Hospital

Month	Number of services (Topic)			Total
	Research	Teaching	Other	
January	6	23	15	44
February	6	26	12	44
March	2	40	7	49
April	0	25	8	33
May	2	18	10	30
June	5	29	5	39
July	1	21	1	23
August	4	28	4	36
September	2	24	4	30
October	6	33	10	49
November	3	26	5	34
December	2	41	7	50
Total	39	334	88	461

Number of electronic medical record services in 2019, classified by the objective of client

Medical Statistics Reporting Unit, Medical Record Division, Siriaj Hospital

Month	Number of services										Total	
	Outpatient		Inpatient		Drop Box		Academic		Other			
	Client	EMR	Client	EMR	Client	EMR	Client	EMR	Client	EMR	Client	EMR
	(visits)	(Copy)	(visits)	(Copy)	(visits)	(Copy)	(visits)	(Copy)	(visits)	(Copy)	(visits)	(Copy)
January	161	161	21	220	269	546	9	4,835	3	97	463	5,859
February	143	143	22	405	211	419	7	2,443	1	2	384	3,412
March	156	156	26	298	281	575	4	921	1	20	468	1,970
April	134	134	41	339	209	427	1	45	1	58	386	1,003
May	161	161	41	353	240	495	3	410	2	3	447	1,422
June	107	107	35	306	234	514	2	2,386	4	8	382	3,321
July	141	141	36	381	321	612	8	8,818	3	12	509	9,964
August	137	137	33	366	283	566	4	2,256	4	4	461	3,329
September	152	152	30	287	316	595	4	7,006	3	4	505	8,044
October	177	177	33	331	316	738	8	4,885	0	0	534	6,131
November	156	156	30	301	315	687	3	656	0	0	504	1,800
December	122	122	24	256	310	680	4	700	2	3	462	1,761
Total	1,747	1,747	372	3,843	3,305	6,854	57	35,361	24	211	5,505	48,016

Statistics of Siriraj Primary Care Unit

Number of patients receiving services in 2019, classified by diagnosis type, Siriraj Hospital

Diagnosis type	Unit	Number of patients												Total*
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1. Treatment and Health Promotion	person	3,782	3,315	3,556	3,397	3,557	3,414	3,557	3,760	3,836	3,860	3,626	3,551	16,151
	visit	4,896	4,183	4,496	4,256	4,568	4,413	4,688	4,950	4,959	5,150	4,692	4,425	55,676
1.1 Common disease diagnosis and treatment	visit	4,043	3,460	3,734	3,542	3,872	3,697	3,860	4,073	4,105	4,219	3,846	3,711	46,162
1.2 Antenatal care	visit	45	34	28	35	47	35	32	29	46	37	32	35	435
1.3 Vaccines and child development	visit	44	35	28	40	28	29	38	32	32	42	36	23	407
1.4 Home visit	visit	69	49	54	41	41	37	39	50	55	51	52	40	578
1.5 Dentistry	visit	361	314	320	303	304	325	411	455	378	430	377	294	4,272
2. Applied Thai Traditional Medicine in PCU	visit	334	291	332	295	276	290	308	311	343	371	349	322	3,822
3. Applied Thai Traditional Medicine in community	visit	273	286	268	254	289	315	305	327	348	288	293	281	3,527
4. Health condition screening in the community	visit	183	379	385	409	414	293	321	331	252	346	382	261	3,956
4.1 Health Survey	visit	107	201	204	139	133	90	87	70	42	179	219	145	1,616
4.2 Home visit	visit	76	173	170	265	274	203	231	257	210	163	153	115	2,290
4.3 Referring patients to Home Health Care Team	visit	0	5	11	5	7	0	3	4	0	4	10	1	50
5. Forward for treatment at Siriraj Hospital	person	1,670	1,356	1,503	1,473	1,589	1,431	1,435	1,547	1,500	1,426	1,388	1,387	11,099

Note: Number of patients (Total) HN no repeat



STATISTICAL REPORT 2019



Faculty of Medicine Siriraj Hospital Mahidol University 2 Wang Lang Road, Siriraj, Bangkoknoi, Bangkok 10700



+66 (2) 419-9319



fax +66 (2) 411-2080



www si.mahidol.ac.th