



**Ministry of Health and Sports
The Republic of the Union of Myanmar**

**Hospital Statistics Report
2014-16**

**Health Information Division, Department of Public Health
in collaboration with
Department of Medical Services**

Nay Pyi Taw, Myanmar

www.mohs.gov.mm

Ministry of Health and Sports



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PREFACE

Hospital Statistics Report (2014-2016) is the collaborative effort of Health Information Division, Department of Public Health and Department of Medical Services. It is based on the monthly statistical returns from all public hospitals under the Ministry of Health and Sports and the registered private hospitals. Most of the hospital returns were paper-based during 2014-16, although some large hospitals reported by using computer assisted medical record system.

This report provides a broad range of statistics and information about patterns of hospital utilization in terms of bed occupancy rate, average number of inpatients and outpatients per day, institutional mortality rate, morbidity and mortality statistics. Information on communicable diseases, common non-communicable diseases and injuries are also included.

In this report, hospital efficiency is assessed by applying the Pabón Lasso technique which uses the three indicators; bed occupancy rate, average turnover of patients per bed per year and average length of stay concurrently in assessing the relative performance of hospitals. In addition, information about the hospitals with good performance during these three consecutive years is presented to provide information to the decision makers of hospital care services.

The information will be useful for monitoring and assessing health service utilization, performance measurement and evidence-based decision making for health care management and allocation of resources. This report is expected to be used by policymakers and program managers of health care services to evaluate their performance and to formulate appropriate health policies and programs.

This report cannot come into reality without the strong technical leadership and earnest effort of Dr Thet Thet Mu, Deputy Director-General, and her Health Information Division staff, medical record technicians, medical officers in-charge, nurses and staff working in various categories of public as well as private hospitals and their contribution are highly appreciated.

MH
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4.6.10

Dr. Myint Htwe

Union Minister

Ministry of Health and Sports

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INTRODUCTION

Health Information Division, Department of Health planning, has taken the responsibility for the collection, processing, analyzing and interpretation of hospital and public health data of Myanmar from 1995 to March 2015. From April 2015 onwards, the Division has been under the Department of Public Health but still taken care of public health and hospital information system. This Hospital Statistics Reports is the collaborative effort of Health Information Division, Department of Public Health, the public hospitals under the Department of Medical Services and registered private hospitals. This report will be published and distributed to be used for planning and managing hospital performance. It is also available online at www.mohs.gov.mm.

Reporting Forms and Data Items

All the public hospitals in Myanmar are reporting their inpatient data which are specified in revised “Hospital Form Manual” released in August 2012 by using the following standardized Hospital Report forms:

- Form I -Monthly Hospital Return (Administrative)
- Form II-Monthly General Inpatient Summary
- Form III-Hospital Daily Record (In-patient).

Part C of Form I -Monthly Hospital Return (Administrative) is used to report outpatient activities of the hospitals. Outpatient summary are reported with outpatient report form of which data items are specified in Outpatient Report Manual released in May 2008.

Regarding private health sector, training on hospital statistics and medical record management was conducted in Yangon; for private hospitals of lower Myanmar, and in Mandalay; for those of upper Myanmar during 2013 in collaboration with Myanmar Private Hospital Association. The reporting format and data items are defined in “Private Hospital Form Manual” released in January 2013. Two reporting forms used in private hospitals are

- Form I -Monthly Hospital Return (Administrative) and
- Form II-Monthly General Inpatient Summary.

Data Providers

This report includes information of the public hospitals reported to Health Information Division; most of them are under administration of the Ministry of Health and Sports and a few hospitals are under other Ministries. Different types of public hospitals categorized according to the bed strengths and service delivery pattern are major providers of hospital statistics. It includes specialist hospitals, general hospitals, 150- bedded, 100 bedded, 50 bedded, 25 bedded, 16 bedded and station hospitals.

Registered private hospitals have been providing data since January 2013. Information of private hospitals is also included in the report.

Information

This report organizes hospital statistics from routine service reporting system of all public hospitals, including from Station Hospitals to tertiary Hospitals, and contains information on

- Reporting status of the hospitals
- Availability and utilization of hospital services
- Availability and utilization of hospital resources
- Hospital performance indicators
- Patient care services such as
 - Outpatient services
 - Surgical services
 - Obstetric services
- Hospital death rate
- Graphical presentation of morbidity and mortality statistics
- Causes of hospitalization by Region and State
- Information of the private hospitals

The statistics in this report are organized by States and Regions in which the hospitals are situated, not by the States and Regions of usual residence of the patients. Therefore, the statistics of State and Region does not represent disease pattern of population in catchment area.

Although some of the large hospitals reported their data electronically, the reporting system is paper-based for year 2014-16. Therefore, timeliness and response rate of the hospitals are varied across the States and Regions. In addition, the response rate is affected by some hospitals which are not under the administration of Ministry of Health and Sports.

All administrative data of the public hospitals are compiled from Hospital Form I and III. Eight hospital administrative indicators are used to evaluate the performance and utilization of the public hospitals. This report also describes distribution and trends of availability of hospital resources among different Regions and States to provide current situation of hospital services.

Assessment on efficiency of the public hospitals under Ministry of Health and Sports by the Pabón Lasso technique is also included. Previously, percentage of bed occupancy based on sanctioned bed was used as indicator for assessing hospital utilization. However, unnecessarily prolonged stay, development of nosocomial complication, improper patient care and lack of facility for proper patient care may lead to prolong length of stay with relatively high bed occupancy. To avoid such misleading information from any particular indicator, three indicators; bed occupancy rate, bed turnover ratio or average turnover of patients per bed per year and average length of Stay, have been used simultaneously according to Pabón Lasso Technique since 2012 hospital statistics report. In this report, it is applied to all public hospitals under MOHS as well as to each type of hospitals by using specific indicators accordingly.

In addition, the hospitals which had at least 90% bed occupancy rate during 2014-16 are extracted from the desirable zone (Quadrant III of the Pabón Lasso graph) and stated with tabular presentation to provide information for planning and management of hospital resources.

Morbidity and mortality statistics of all inpatients are processed from Hospital Form II by applying single condition morbidity analysis in accordance with Guidelines and Rules for morbidity and mortality coding. Therefore there may be loss of some information relating to the occurrence of the disease problems.

Morbidity and mortality statistics are not based on the actual number of patients, but on the episode or frequency of hospitalization. Therefore it is recommended to take precaution in interpretation of disease volume.

This report includes morbidity and mortality pattern of all inpatients, leading causes of hospitalization or morbidity and that of mortality. Morbidity by specific target age group such as neonate, infant, under-five, adolescent and elderly are also described. Percent distribution and proportion of leading causes among the specific disease group are also presented to highlight the burden of specific diseases among the hospitalized patients and provide information for effective management and planning.

LIST OF ABBREVIATIONS

BOR	= Bed Occupancy Rate
CAMRS	= Computer Assisted Medical Record System
CVD	= Cardiovascular Disease
D & D	= Discharges and Deaths
D	= Deaths only
DHP	= Department of Health Planning
E.E.N & T	=Eye, Ear, Nose and Throat
E.N & T	=Ear, Nose and Throat
HDR	= Hospital Death Rate
ICD-10	= International Statistical Classification of Diseases and Health Related Problems - Tenth Revision
IMR	= Infant Mortality Rate
MMR	= Maternal Mortality Ratio
MOHS	= Ministry of Health and Sports
NCD	= Non-communicable Disease
NEC	=Not elsewhere classified
NMR	= Neonatal Mortality Rate
U5MR	= Under 5 Mortality Rate
WHO	=World Health Organization

SECTION I

HOSPITAL ADMINISTRATIVE STATISTICS

RESPONSE RATE OF HOSPITALS

PART A

All public hospitals under Ministry of Health and Sports and other ministries are reporting the administrative statistics to Health Information Division under the Department of Health Planning since 1995. After the Department of Health Planning was abolished on 31st March 2015, Health Information Division has been functioning under the Department of Public Health.

Information regarding response rate of the public hospitals from 2007 to 2016 are described in Table (1). It includes number of hospitals reported for the specific number of months in each year, total number of public hospitals and union response rate.

Table (1) Reporting Status of the Public Hospitals by the Number of Months Reported (2007-2016)

Year	Number of hospitals by months reported								Total hospitals	Union response rate (%)
	12 Months		6-11 Months		1-5 Months		0-Month			
	No.	%	No.	%	No.	%	No.	%		
2007	645	77.5	128	15.4	11	1.3	48	5.8	832	90.6
2008	714	84.4	63	7.4	8	0.9	61	7.2	846	90.7
2009	722	82.9	62	7.1	8	0.9	79	9.1	871	89.1
2010	721	80.2	85	9.4	13	1.4	79	8.8	898	88.4
2011	729	78.9	85	9.2	15	1.6	95	10.3	924	86.9
2012	651	68.9	182	19.3	16	1.7	96	10.2	945	85.8
2013	684	70.5	166	17.1	21	2.1	98	10.1	969	85.7
2014	664	68.1	223	22.9	21	2.2	67	6.9	975	88.1
2015	404	38.3	444	42.1	69	6.5	137	13.0	1,054	75.7
2016	485	43.5	340	30.5	141	12.6	149	14.9	1,115	71.8

Overall reporting status from 2007 to 2016 was shown in figure (1) in comparison with full 12-months response rate and non-response rate against the increasing number of public hospitals. The overall response rate was found gradually decreased since 2007. The lowest response rate was found in 2015 and 2016, 75.7% and 71.8% respectively.

Figure (1) Response Rate of Public Hospitals for Union (2007- 2016)

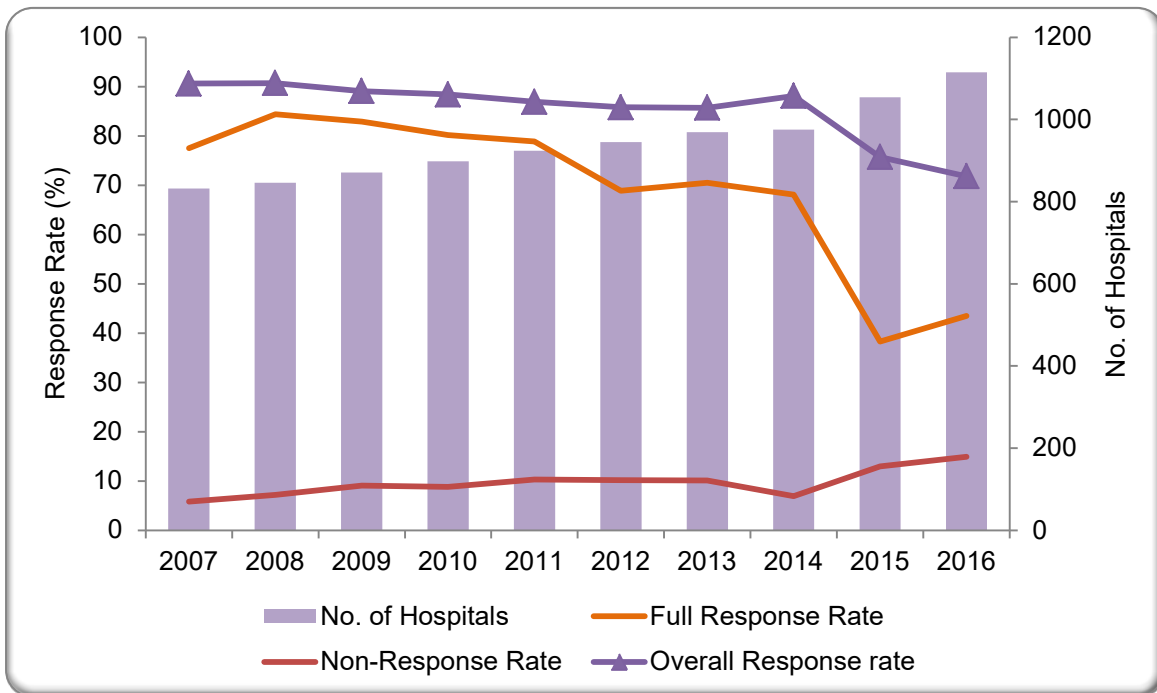
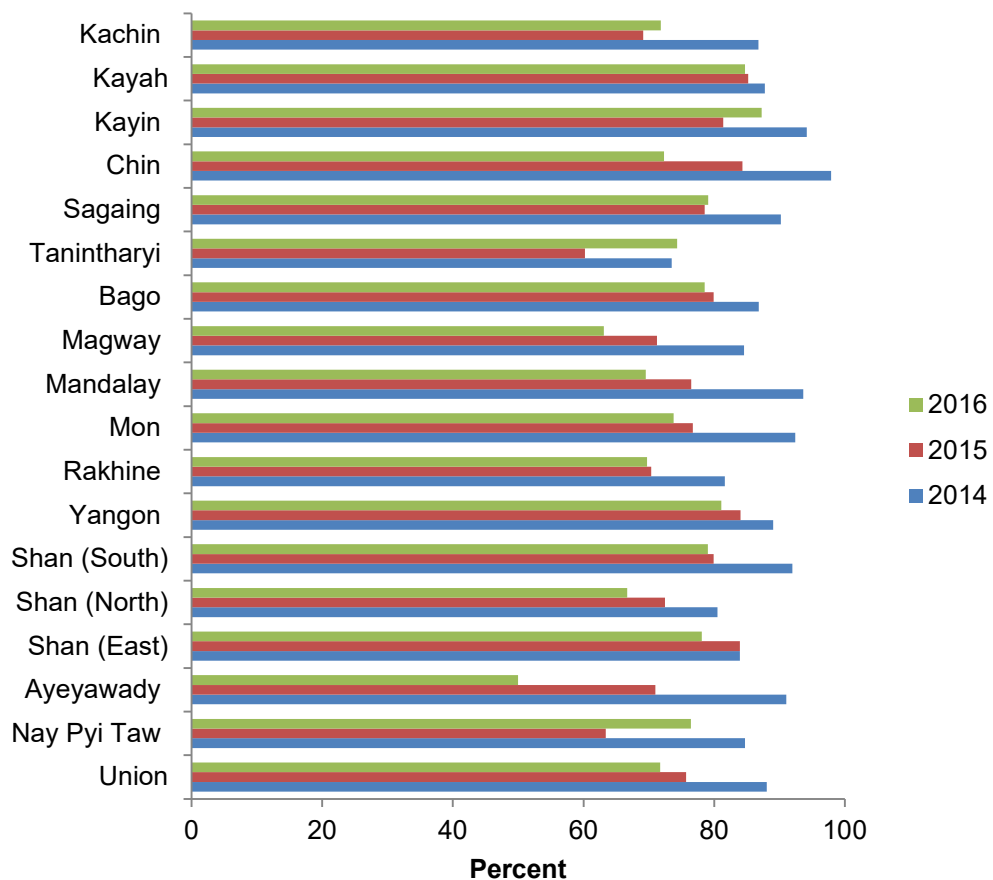


Figure (2) Response Rate of Public Hospitals by Regions and States (2014-2016)



Response rate by public hospitals of each Region and State are described in Figure (2). Almost all Regions and States have lower response rate in 2015 and 2016 compared to

2014. Significant fall in response rate is found in Ayeyawady Region followed by Chin State and Mandalay Region.

In Tanintharyi, overall response rate increased again in 2016 although there was a fall in 2015. Response rate of Nay Pyi Taw, Kayin and Kachin also moved up but not reached the level of 2014.

Response rates of the public hospitals were described in details in Table (2).

Table (2) Response Rate of Public Hospitals by Region and State (2014-2016)

Region and State	Number of hospitals by months reported																	
	12 Months			6-11 Months			1-5 Months			0-Month			Total Hospitals			Overall response rate (%)		
	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
Kachin	74.5	27.8	43.6	13.7	42.6	30.9	2.0	18.5	9.1	9.8	11.1	16.4	51	54	55	86.8	69.1	71.8
Kayah	76.5	55.6	55.6	11.8	33.3	33.3	5.9	0.0	0.0	5.9	11.1	11.1	17	18	18	87.8	85.2	84.7
Kayin	83.3	50.0	47.1	13.3	35.3	47.1	0.0	0.0	2.9	3.3	14.7	2.9	30	34	34	94.2	81.4	87.3
Chin	87.5	36.0	42.9	12.5	52.0	32.1	0.0	8.0	10.7	0.0	4.0	14.3	24	25	28	97.9	84.3	72.3
Sagaing	69.0	35.0	43.2	23.0	50.0	40.2	4.4	6.7	12.9	3.5	8.3	3.8	113	120	132	90.2	78.5	79.1
Tanintharyi	54.5	17.1	55.3	27.3	48.6	21.1	0.0	14.3	10.5	18.2	20.0	13.2	33	35	38	73.5	60.2	74.3
Bago	68.8	46.7	51.4	21.9	38.1	30.3	2.1	0.0	9.2	7.3	15.2	9.2	96	105	109	86.8	79.9	78.5
Magway	59.8	26.9	34.0	29.3	50.5	30.0	2.4	4.3	17.0	8.5	18.3	19.0	82	93	100	84.6	71.2	63.1
Mandalay	75.3	40.0	44.4	20.4	42.0	28.7	1.1	8.0	10.2	3.2	10.0	16.7	93	100	108	93.6	76.5	69.5
Mon	81.8	41.0	59.5	12.1	41.0	14.3	0.0	0.0	11.9	6.1	17.9	14.3	33	39	42	92.4	76.7	73.8
Rakhine	53.1	32.2	52.4	30.6	44.1	19.0	8.2	1.7	11.1	8.2	22.0	17.5	49	59	63	81.6	70.3	69.7
Yangon	73.2	44.6	43.5	18.3	45.8	42.4	2.4	1.2	4.7	6.1	8.4	9.4	82	83	85	89.0	84.0	81.1
Shan (South)	71.2	38.1	48.4	23.7	50.8	32.8	0.0	1.6	10.9	5.1	9.5	7.8	59	63	64	91.9	79.9	79.0
Shan (North)	53.8	47.0	41.2	30.8	28.8	23.5	1.5	9.1	13.2	13.8	15.2	22.1	65	66	68	80.5	72.5	66.7
Shan (East)	70.4	70.4	55.6	14.8	14.8	22.2	0.0	0.0	7.4	14.8	14.8	14.8	27	27	27	83.9	84.0	78.1
Ayeyawady	65.0	33.6	24.0	29.1	38.2	24.8	1.9	16.4	31.4	3.9	11.8	19.8	103	110	121	91.0	71.0	50.0
Nay Pyi Taw	55.6	34.8	39.1	33.3	30.4	43.5	0.0	21.7	4.3	11.1	13.0	13.0	18	23	23	84.7	63.4	76.4

Note: response rate may be affected by the hospitals which are not under the administration of Ministry of Health and Sports such as some hospitals under other ministries and some from Shan (North).

$$\text{Overall response rate} = \frac{\sum_{i=1}^{12} n_i \times 100}{(\text{Total number of hospitals} \times 12 \text{ months})}$$

n = Number of reporting months × Number of hospitals

HOSPITAL SERVICES

PART B

This chapter describes overview of hospital services including number and types of hospitals, availability of sanctioned and available beds and utilization of hospital services.

Table (3) Hospital Service Indicators for Union (2007-2016)

Sr. No.	Hospital Services Indicators	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
1	Number of hospitals	832	846	871	898	924	945	969	975	1054	1115
2	Number of sanctioned beds	35967	38363	39060	40913	41804	42569	44046	44133	46060	53188
3	Number of available beds as of 31 st December	43288	43748	44255	45904	45346	45040	48035	48737	51487	55895
4	Number of admissions [,.000]	1084	1107	1212	1340	1324	1530	1793	2095	2562	2754
5	Number of discharges and deaths [,.000]	1082	1107	1208	1312	1322	1520	1785	2085	2550	2745
6	Number of deaths [,.000]	28	27	28	30	28	31	32	35	38	42
7	Number of patient days [,.000]	7007	6939	7498	7952	7842	8651	9878	11254	13278	13923
8	Number of out-patient attendances [,.000]	2949	3242	3381	3627	3660	4166	5519	7318	9301	10190
9	Number of deliveries [,.000]	125	135	147	165	178	202	237	282	349	391
10	Number of surgical operations [,.000]	248	266	277	309	338	380	432	504	585	646
11	Percent of bed occupancy based on available beds	44	44	46	47	47	53	56	63	71	68
12	Percent of bed occupancy based on sanctioned beds	53	50	53	53	51	56	61	70	79	72
13	Average number of inpatients per day [,.000]	19	19	21	22	21	24	27	31	36	38
14	Average number of outpatients per day [,.000]*	12	13	14	15	15	17	23	30	38	42
15	Average duration of stay [in days]	6.4	6.3	6.2	6	5.9	5.6	5.5	5.4	5.2	5.1
16	Average turnover of patients per bed per year	25	25	27	29	29	34	37	43	50	49
17	Average turnover interval [in days]	8.1	8.2	7.2	6.7	6.5	5.1	4.3	3.1	2.2	2.4
18	Hospital death rate (%)	2.6	2.5	2.3	2.3	2.1	2	1.8	1.7	1.5	1.5

Note:-[*] per working days of hospital

Figure (3) Trend of Hospital Resources for Union (2007-2016)

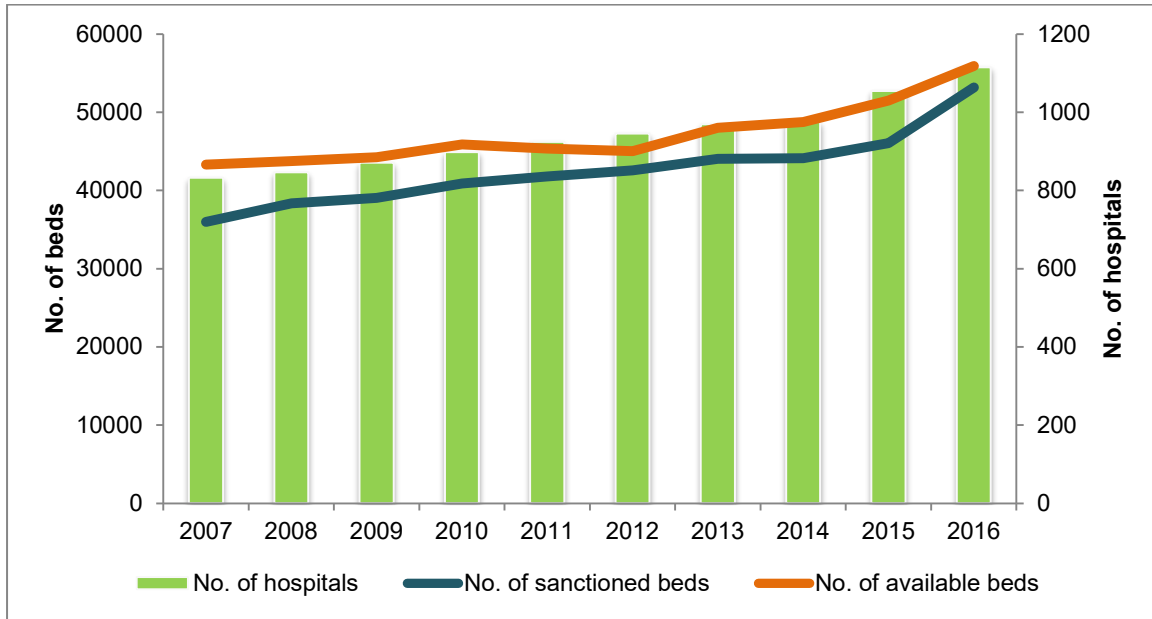
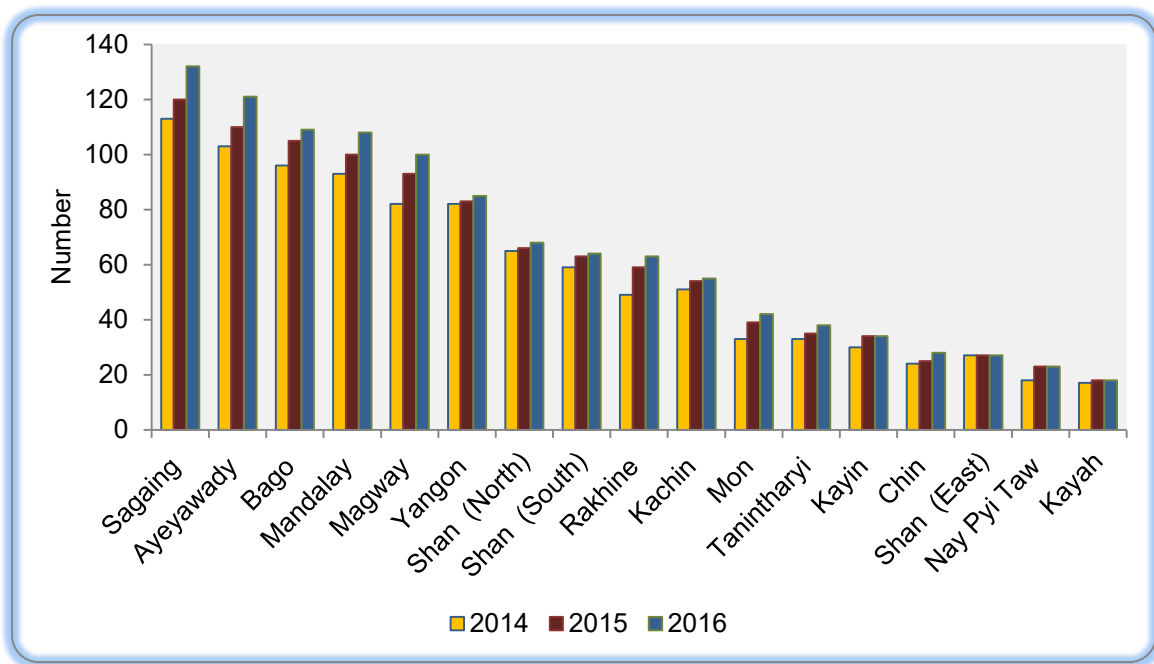


Figure (3) shows hospital resources for Union from 2007 to 2016. Numbers of hospitals were in increasing trend. Number of sanctioned bed and available beds were also increasing.

Figure (4) Distribution of Hospitals across Regions and States (2014-2016)



In Myanmar, hospitals are distributed based on geographic situation and population. Distribution of hospitals across Regions and States are stated in Figure (4). Sagaing Region has the highest number of hospitals and Kayah has the lowest number.

Figure (5) Distribution of Types of Hospitals by Regions and States (2016)

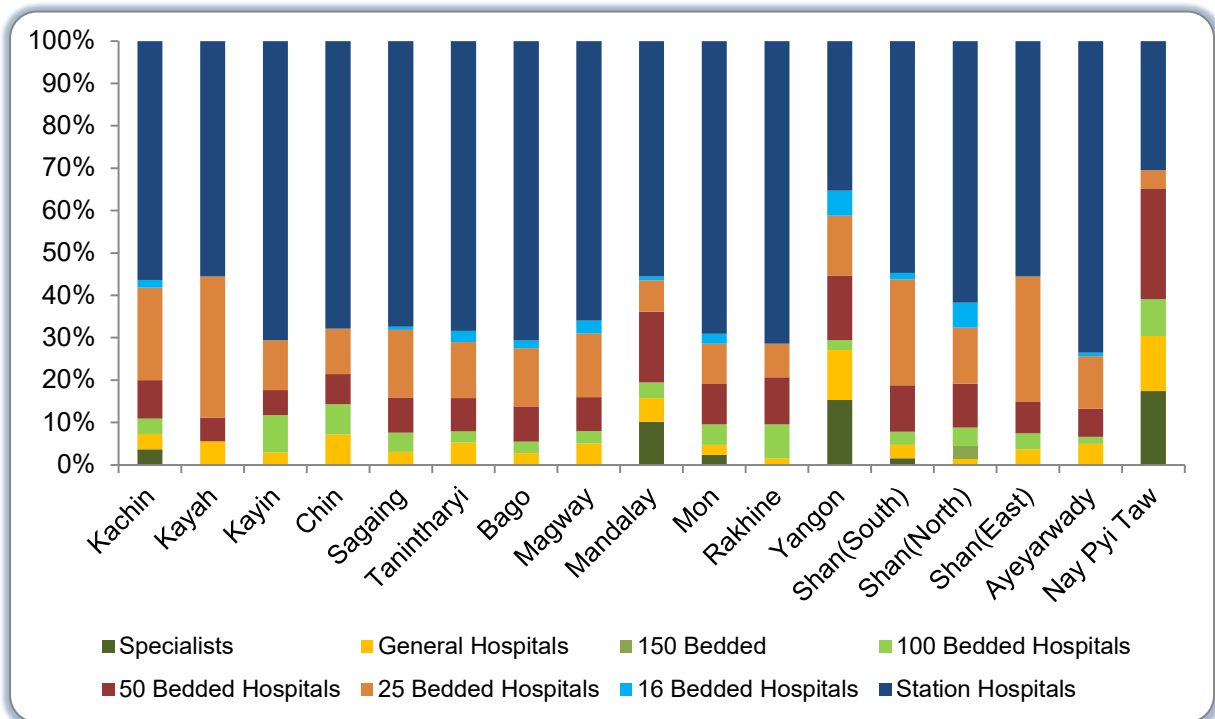


Figure (5) illustrates distribution of types of hospital in each Region and State. In most of the Regions and States except Yangon and Nay Pyi Taw, Station hospitals were more than half of all public hospitals.

Out of 1115 public hospitals providing hospital care services in Myanmar in 2016, Station Hospitals occupied the highest proportion (62.2%), followed by 25 bedded and 50 bedded hospitals. Specialist Hospitals and General Hospitals accounted for 2.9% and 4.6% respectively (Figure. 6).

Figure (6) Percent Distribution of Types of Hospitals (2016)

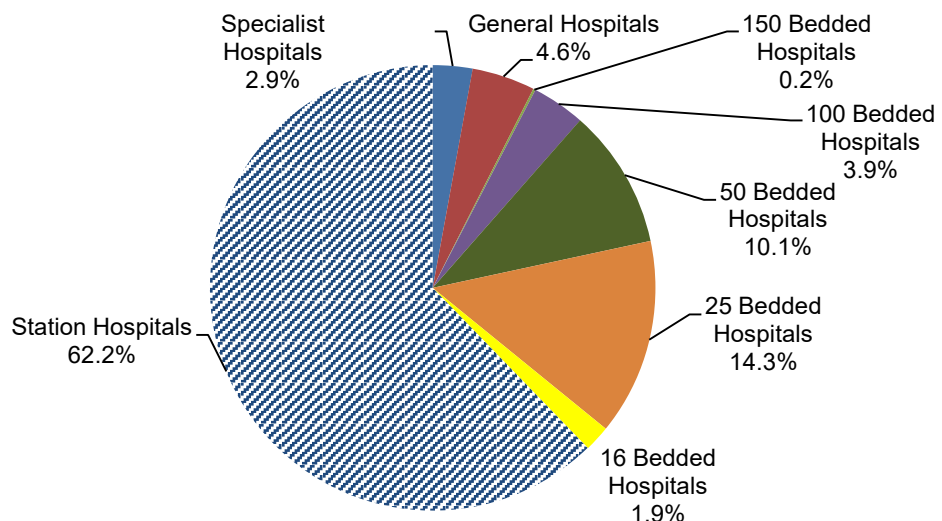


Figure (7) Distribution of sanctioned beds and available beds by Regions and States (2016)

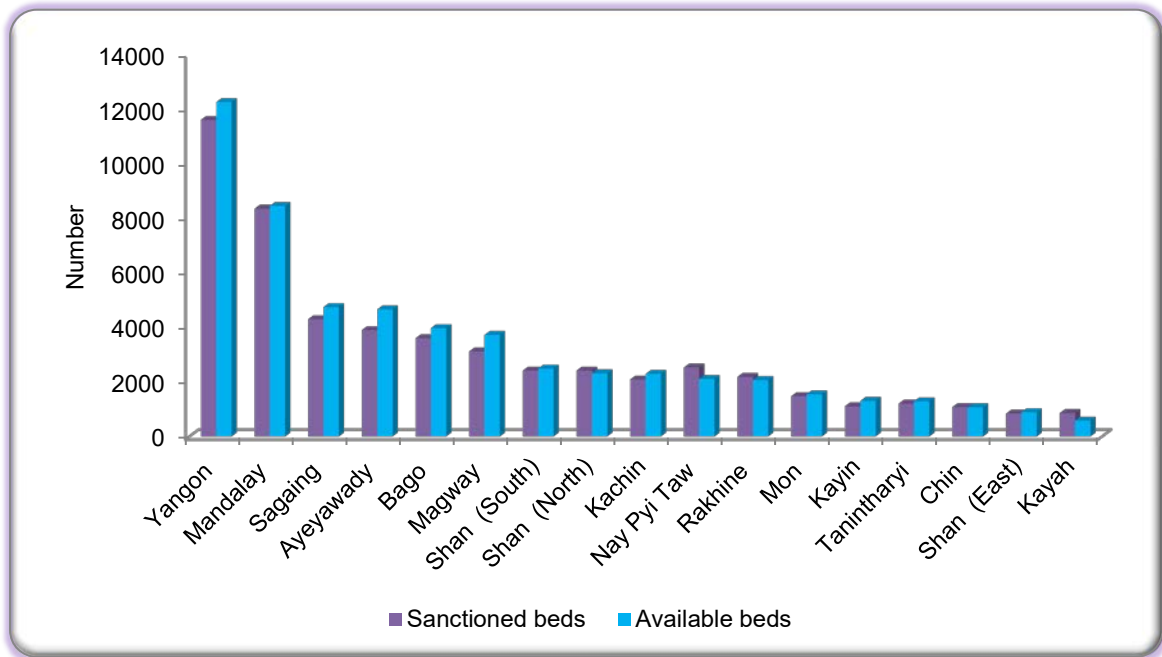


Figure (7) presents distribution of hospital resources in terms of sanctioned and available beds in different Regions and States. Available beds were found to be more than sanctioned beds in most of the Regions and States.

Table (4-1) Availability and Utilization of hospital resources by Regions and States (2014)

Sr. No.	Regions & States	Total number of hospitals	Sanctioned beds	Available beds	Admissions	Discharges & Deaths	Patient days	Number of deaths	Hospital death rate	Out-patient attendances
1	Kachin State	51	1823	2046	68143	67822	381504	1097	1.6	295678
2	Kayah State	17	544	568	17754	17684	99696	241	1.4	85537
3	Kayin State	30	986	1186	53491	53083	225823	636	1.2	201009
4	Chin State	24	990	920	18167	18107	105098	153	0.8	116789
5	Sagaing Region	113	3384	4008	200475	199156	1010729	2121	1.1	736442
6	Tanintharyi Region	33	1127	1142	60635	60295	300558	601	1.0	181029
7	Bago Region	96	2706	3563	205059	204427	923158	2129	1.0	509818
8	Magway Region	82	2673	2797	150854	149935	706887	1540	1.0	428633
9	Mandalay Region	93	6936	7247	290235	289023	1708846	3725	1.3	965160
10	Mon State	33	1077	1524	88046	87685	394571	1072	1.2	201177
11	Rakhine State	49	1387	1600	71782	70993	313771	1777	2.5	182026
12	Yangon Region	82	10462	11081	415231	413341	2886587	13546	3.3	1764985
13	Shan State (South)	59	1921	2238	78801	78375	396470	1237	1.6	398098
14	Shan State (North)	65	2013	2271	74701	74708	340452	1226	1.6	326629
15	Shan State (East)	27	840	841	26086	25990	108213	292	1.1	128513
16	Ayeyawady Region	103	3143	3832	217703	216931	1064202	3027	1.4	454247
17	Nay Pyi Taw	18	2121	1873	57451	57197	287544	778	1.4	342327
	T O T A L	975	44133	48737	2094614	2084752	11254109	35198	1.7	7318097

Table (4-1) Availability and Utilization of hospital resources by Regions and States (2014) (Cont.)

Sr. No.	Regions & States	Number of livebirths	Number of stillbirths	Number of abortions	Surgical operations				Total number of surgical operations	Average number of out-patients per day	Average number of in-patients per day	Average duration of stay (in days)	Percentage of occupancy based on available beds	Percentage of occupancy based on sanctioned beds	Average turn-over of patients per bed per year	Average turn-over interval (in days)
					General anaesthesia	Spinal anaesthesia	Local anaesthesia	Others								
1	Kachin State	8319	262	1721	2290	5960	6193	2871	17314	1222	1045	5.6	51	57	33	5.4
2	Kayah State	2075	47	448	691	1761	952	407	3811	353	273	5.6	48	50	31	6.1
3	Kayin State	6929	141	1522	2033	3483	5471	1050	12037	831	619	4.3	52	63	45	3.9
4	Chin State	1625	71	450	845	1427	987	257	3516	483	288	5.8	31	29	20	12.7
5	Sagaing Region	30222	717	4277	12006	19230	15337	4536	51109	3043	2769	5.1	69	82	50	2.3
6	Tanintharyi Region	7492	160	1113	4658	4575	4141	707	14081	748	823	5.0	72	73	53	1.9
7	Bago Region	26468	680	4383	8120	15964	15154	3059	42297	2107	2529	4.5	71	93	57	1.8
8	Magway Region	19520	556	2932	6969	15748	10134	2231	35082	1771	1937	4.7	69	72	54	2.1
9	Mandalay Region	33114	873	5601	19474	29920	26531	9001	84926	3988	4682	5.9	65	67	40	3.2
10	Mon State	11318	250	1454	2355	5773	4737	2860	15725	831	1081	4.5	71	100	58	1.8
11	Rakhine State	9125	432	2024	2948	4839	3631	860	12278	752	860	4.4	54	62	44	3.8
12	Yangon Region	53784	966	9057	22269	41071	39193	9568	112101	7293	7908	7.0	71	76	37	2.8
13	Shan State (South)	10797	329	1961	4435	6040	6505	3107	20087	1645	1086	5.1	49	57	35	5.4
14	Shan State (North)	13000	314	1887	2311	6213	5323	1669	15516	1350	933	4.6	41	46	33	6.5
15	Shan State (East)	4045	119	610	643	1701	3210	816	6370	531	296	4.2	35	35	31	7.6
16	Ayeyawady Region	31492	956	5550	6899	19405	12543	2392	41239	1877	2916	4.9	76	93	57	1.5
17	Nay Pyi Taw	6137	124	1125	3485	8636	3967	635	16723	1415	788	5.0	42	37	31	6.9
	T O T A L	275462	6997	46115	102431	191746	164009	46026	504212	30240	30833	5.4	63	70	43	3.1

Table (4-2) Availability and Utilization of hospital resources by Regions and States (2015)

Sr. No.	Regions & States	Total number of hospitals	Sanctioned beds	Available beds	Admissions	Discharges & Deaths	Patient days	Number of deaths	Hospital death rate	Out-patient attendances
1	Kachin State	54	1871	2145	83531	83200	443856	1151	1.4	392417
2	Kayah State	18	560	566	24112	24080	128483	238	1.0	144312
3	Kayin State	34	1050	1248	70319	70013	280475	706	1.0	279103
4	Chin State	25	1006	1019	23428	23409	134410	201	0.9	150350
5	Sagaing Region	120	3505	4147	255934	253907	1200523	2164	0.9	859698
6	Tanintharyi Region	35	1159	1285	77986	77547	369069	757	1.0	237836
7	Bago Region	105	2850	3677	251564	250943	1081470	2343	0.9	652829
8	Magway Region	93	2858	3289	201547	199968	912173	1852	0.9	647180
9	Mandalay Region	100	7248	7716	347319	346248	2022963	3897	1.1	1099115
10	Mon State	39	1173	1235	110774	110082	465953	995	0.9	253422
11	Rakhine State	59	1556	1715	88504	88353	389118	2098	2.4	260889
12	Yangon Region	83	10478	11448	479226	477494	3276668	15117	3.2	2216181
13	Shan State (South)	63	1985	2349	95124	94859	463351	1389	1.5	489859
14	Shan State (North)	66	2029	2269	79005	78716	356203	1154	1.5	384880
15	Shan State (East)	27	840	841	29252	29153	123493	296	1.0	162893
16	Ayeyawady Region	110	3355	4169	273867	272026	1287807	3197	1.2	588771
17	Nay Pyi Taw	23	2537	2369	70292	70070	342331	939	1.3	481705
	T O T A L	1054	46060	51487	2561784	2550068	13278346	38494	1.5	9301440

Table (4-2) Availability and Utilization of hospital resources by Regions and States (2015) (Cont.)

Sr. No.	Regions & States	Number of livebirths	Number of stillbirths	Number of abortions	Surgical operations				Total number of surgical operations	Average number of out-patients per day	Average number of in-patients per day	Average duration of stay (in days)	Percentage of occupancy based on available beds	Percentage of occupancy based on sanctioned beds	Average turn-over of patients per bed per year	Average turn-over interval (in days)
					General anaesthesia	Spinal anaesthesia	Local anaesthesia	Others								
1	Kachin State	10747	234	2116	2552	6439	8176	2335	19502	1622	1216	5.3	57	65	39	4.1
2	Kayah State	3027	74	563	765	2179	1569	588	5101	596	352	5.3	62	63	43	3.2
3	Kayin State	8575	169	1829	2259	3859	7173	925	14216	1153	768	4.0	62	73	56	2.5
4	Chin State	2620	63	598	1036	2518	850	363	4767	621	368	5.7	36	37	23	10.1
5	Sagaing Region	37412	746	4548	13380	19999	19291	5117	57787	3552	3289	4.7	79	94	61	1.2
6	Tanintharyi Region	9237	227	1248	3418	5165	6027	672	15282	983	1011	4.8	79	87	60	1.3
7	Bago Region	32730	658	4735	9666	18733	18840	3440	50679	2698	2963	4.3	81	104	68	1.0
8	Magway Region	28305	580	3974	8618	18507	14071	3187	44383	2674	2499	4.6	76	87	61	1.4
9	Mandalay Region	41189	862	6004	21968	34528	24989	10077	91562	4542	5542	5.8	72	76	45	2.3
10	Mon State	12645	240	1569	2946	6764	6690	3674	20074	1047	1277	4.2	103	109	89	-0.1
11	Rakhine State	12831	503	2653	3062	6569	6270	1432	17333	1078	1066	4.4	62	69	52	2.7
12	Yangon Region	64861	1103	11004	24676	46592	44710	11272	127250	9158	8977	6.9	78	86	42	1.9
13	Shan State (South)	14145	298	2120	5472	7312	7991	3376	24151	2024	1269	4.9	54	64	40	4.2
14	Shan State (North)	13164	295	2178	2948	6194	6988	1840	17970	1590	976	4.5	43	48	35	6.0
15	Shan State (East)	4516	104	524	516	2134	3172	824	6646	673	338	4.2	40	40	35	6.3
16	Ayeyawady Region	39063	880	5488	8324	23763	15051	3497	50635	2433	3528	4.7	85	105	65	0.9
17	Nay Pyi Taw	6920	158	1225	4344	6202	7132	423	18101	1991	938	4.9	40	37	30	7.5
	T O T A L	341987	7194	52376	115950	217457	198990	53042	585439	38436	36379	5.2	71	79	50	2.2

Table (4-3) Availability and Utilization of hospital resources by Regions and States (2016)

Sr. No.	Regions & States	Total number of hospitals	Sanctioned beds	Available beds	Admissions	Discharges & Deaths	Patient days	Number of deaths	Hospital death rate	Out-patient attendances
1	Kachin State	55	2096	2299	87644	87187	466635	1267	1.5	452302
2	Kayah State	18	860	586	24380	24429	128665	259	1.1	155477
3	Kayin State	34	1111	1306	76942	76861	306129	748	1.0	310372
4	Chin State	28	1079	1072	27616	27420	139212	218	0.8	172836
5	Sagaing Region	132	4315	4762	263916	263236	1178949	1935	0.7	961634
6	Tanintharyi Region	38	1207	1294	85010	84578	381398	884	1.0	257898
7	Bago Region	109	3614	3986	261027	260568	1089473	2302	0.9	681703
8	Magway Region	100	3129	3736	216998	215690	965099	2148	1.0	513948
9	Mandalay Region	108	8351	8456	378694	377802	2074608	4220	1.1	1232132
10	Mon State	42	1480	1553	110439	110532	459477	1009	0.9	247927
11	Rakhine State	63	2195	2079	97190	96506	411370	2199	2.3	250712
12	Yangon Region	85	11610	12260	527308	525851	3537276	16656	3.2	2516767
13	Shan State (South)	64	2426	2500	107534	107134	525952	1479	1.4	568647
14	Shan State (North)	68	2423	2322	95629	95151	429628	1267	1.3	462734
15	Shan State (East)	27	840	895	31537	31457	137903	404	1.3	210984
16	Ayeyawady Region	121	3915	4675	280928	279836	1280870	3371	1.2	682435
17	Nay Pyi Taw	23	2537	2114	81189	81204	410584	1275	1.6	511735
	T O T A L	1115	53188	55895	2753981	2745442	13923228	41641	1.5	10190243

Table (4-3) Availability and Utilization of hospital resources by Regions and States (2016) (Cont.)

Sr. No.	Regions & States	Number of livebirths	Number of stillbirths	Number of abortions	Surgical operations				Total number of surgical operations	Average number of out-patients per day	Average number of in-patients per day	Average duration of stay (in days)	Percentage of occupancy based on available beds	Percentage of occupancy based on sanctioned beds	Average turn-over of patients per bed per year	Average turn-over interval (in days)
					General anaesthesia	Spinal anaesthesia	Local anaesthesia	Others								
1	Kachin State	11892	228	2147	3079	6601	7862	2318	19860	1869	1278	5.4	56	61	38	4.3
2	Kayah State	3331	48	561	870	2278	1718	648	5514	642	353	5.3	60	41	42	3.5
3	Kayin State	9971	171	1871	2495	4320	8034	966	15815	1283	839	4.0	64	75	59	2.2
4	Chin State	2868	73	511	1347	2500	1440	378	5665	714	381	5.1	36	35	26	9.2
5	Sagaing Region	40911	587	4629	11426	22914	18547	6104	58991	3974	3230	4.5	68	75	55	2.1
6	Tanintharyi Region	9670	185	1264	2934	5662	6082	684	15362	1066	1045	4.5	81	87	65	1.1
7	Bago Region	36184	783	5270	9524	21480	19375	3853	54232	2817	2985	4.2	75	83	65	1.4
8	Magway Region	33384	562	3953	7202	21698	16576	3511	48987	2124	2644	4.5	71	85	58	1.8
9	Mandalay Region	46193	922	6372	24117	36227	27716	11351	99411	5091	5684	5.5	67	68	45	2.7
10	Mon State	13300	235	1437	2963	6425	7617	3077	20082	1024	1259	4.2	81	85	71	1.0
11	Rakhine State	13950	466	2612	2877	7196	6692	1728	18493	1036	1127	4.3	54	51	46	3.6
12	Yangon Region	73113	1219	11779	28387	54008	52829	11922	147146	10400	9691	6.7	79	83	43	1.8
13	Shan State (South)	15921	310	2272	5562	7546	10219	4366	27693	2350	1441	4.9	58	59	43	3.6
14	Shan State (North)	16679	334	2403	3278	7537	8720	2410	21945	1912	1177	4.5	51	49	41	4.4
15	Shan State (East)	4504	73	451	456	2145	3442	623	6666	872	378	4.4	42	45	35	6.0
16	Ayeyawady Region	43029	820	5560	9170	27901	18306	4118	59495	2820	3509	4.6	75	90	60	1.5
17	Nay Pyi Taw	9140	147	1213	3939	7042	8423	849	20253	2115	1125	5.1	53	44	38	4.4
	T O T A L	384040	7163	54305	119626	243480	223598	58906	645610	42109	38146	5.1	68	72	49	2.4

Table (5-1) Estimated Totals for Hospital Resources and Services by Type of Hospitals for Union (2014)

Type of Hospitals	Number of hospitals	Number of Sanctioned beds	Number of Available beds	Number of Admissions	Discharges and Deaths	Number of Deaths	Total Patient days	Out-patients		Total Births		Number of Abortions
								New out-patients	Total out-patients	Live births	Stillbirths	
Specialist Hospitals	28	8150	7616	171278	170081	3102	1714895	343403	738107	23166	539	3713
General Hospitals	48	13700	16044	796218	794184	20619	4527091	1126768	2458871	79072	2190	11496
150 Bedded Hospitals	3	450	470	15614	15535	206	67993	30414	55305	2446	47	455
100 Bedded Hospitals	40	4000	4215	210575	209886	2795	981890	245991	406325	32925	926	5032
50 Bedded Hospitals	69	3450	3653	156132	155252	1701	736051	251874	463607	24853	673	4184
25 Bedded Hospitals	199	4975	6168	351447	349114	4206	1527374	756092	1217130	59813	1439	10323
16 Bedded Hospitals	19	304	316	4131	3906	6	15786	51386	93456	253	3	185
Station Hospitals	569	9104	10255	389219	386794	2563	1683029	1197600	1885296	52934	1180	10727
T o t a l	975	44133	48737	2094614	2084752	35198	11254109	4003528	7318097	275462	6997	46115

Table (5-1) Estimated Totals for Hospital Resources and Services by Type of Hospitals for Union (2014) (Cont.)

Type of Hospitals	Surgical Operations				Average number of out-patients per day	Average number of in-patients per day	Average duration of stay (in days)	Percentage of occupancy based on available beds	Percentage of occupancy based on sanctioned beds	Average turn-over of patients per bed per year	Average turn-over interval (in days)	Hospital death rate
	General	Spinal	Local	Others								
Specialist Hospitals	13050	17812	26600	6243	3050	4698	10.1	62	58	22	6.3	1.8
General Hospitals	41612	95872	44398	12080	10161	12403	5.7	77	91	50	1.7	2.6
150 Bedded Hospitals	456	2128	373	59	229	186	4.4	40	41	33	6.7	1.3
100 Bedded Hospitals	8641	23851	6678	2910	1679	2690	4.7	64	67	50	2.7	1.3
50 Bedded Hospitals	6859	10280	8761	4933	1916	2017	4.7	55	58	42	3.8	1.1
25 Bedded Hospitals	16400	23073	34596	11239	5029	4185	4.4	68	84	57	2.1	1.2
16 Bedded Hospitals	6	0	378	0	386	43	4.0	14	14	12	25.5	0.2
Station Hospitals	15407	18730	42225	8562	7790	4611	4.4	45	51	38	5.3	0.7
T o t a l	102431	191746	164009	46026	30240	30833	5.4	63	70	43	3.1	1.7

Table (5-2) Estimated Totals for Hospital Resources and Services by Type of Hospitals for Union (2015)

Type of Hospitals	Number of hospitals	Number of Sanctioned beds	Number of Available beds	Number of Admissions	Discharges and Deaths	Number of Deaths	Total Patient days	Out-patients		Total Births		Number of Abortions
								New out-patients	Total out-patients	Live births	Stillbirths	
Specialist Hospitals	32	8750	8459	198418	197330	3475	2020008	415869	928700	28574	559	4079
General Hospitals	48	13700	16555	961351	959337	23077	5254204	1621252	3345473	99557	2466	14304
150 Bedded Hospitals	3	450	500	17712	17606	246	63932	39745	74922	3018	56	543
100 Bedded Hospitals	40	4100	4225	251879	251599	3076	1156482	292042	515022	36784	842	5295
50 Bedded Hospitals	69	3450	3597	187726	186334	1948	849763	308619	534836	30363	703	4654
25 Bedded Hospitals	202	5050	6304	412789	409938	4117	1736992	847025	1379932	69848	1433	10745
16 Bedded Hospitals	19	304	347	4701	4689	17	12190	72963	119293	868	1	421
Station Hospitals	641	10256	11500	527208	523235	2538	2184775	1522906	2403262	72975	1134	12335
T o t a l	1054	46060	51487	2561784	2550068	38494	13278346	5120421	9301440	341987	7194	52376

Table (5-2) Estimated Totals for Hospital Resources and Services by Type of Hospitals for Union (2015) (Cont.)

Type of Hospitals	Surgical Operations				Average number of out-patients per day	Average number of in-patients per day	Average duration of stay (in days)	Percentage of occupancy based on available beds	Percentage of occupancy based on sanctioned beds	Average turn-over of patients per bed per year	Average turn-over interval (in days)	Hospital death rate
	General	Spinal	Local	Others								
Specialist Hospitals	15061	21463	27590	7016	3838	5534	10.2	65	63	23	5.4	1.8
General Hospitals	42781	104225	46851	14029	13824	14395	5.5	87	105	58	0.8	2.4
150 Bedded Hospitals	489	2149	595	176	310	175	3.6	35	39	35	6.7	1.4
100 Bedded Hospitals	6500	26230	7509	2729	2128	3168	4.6	75	77	60	1.5	1.2
50 Bedded Hospitals	8112	13656	13438	5824	2210	2328	4.6	65	67	52	2.5	1.0
25 Bedded Hospitals	19360	27257	39818	11978	5702	4759	4.2	75	94	65	1.4	1.0
16 Bedded Hospitals	0	0	1006	3	493	33	2.6	10	11	14	24.4	0.4
Station Hospitals	23647	22477	62183	11287	9931	5986	4.2	52	58	45	3.8	0.5
T o t a l	115950	217457	198990	53042	38436	36379	5.2	71	79	50	2.2	1.5

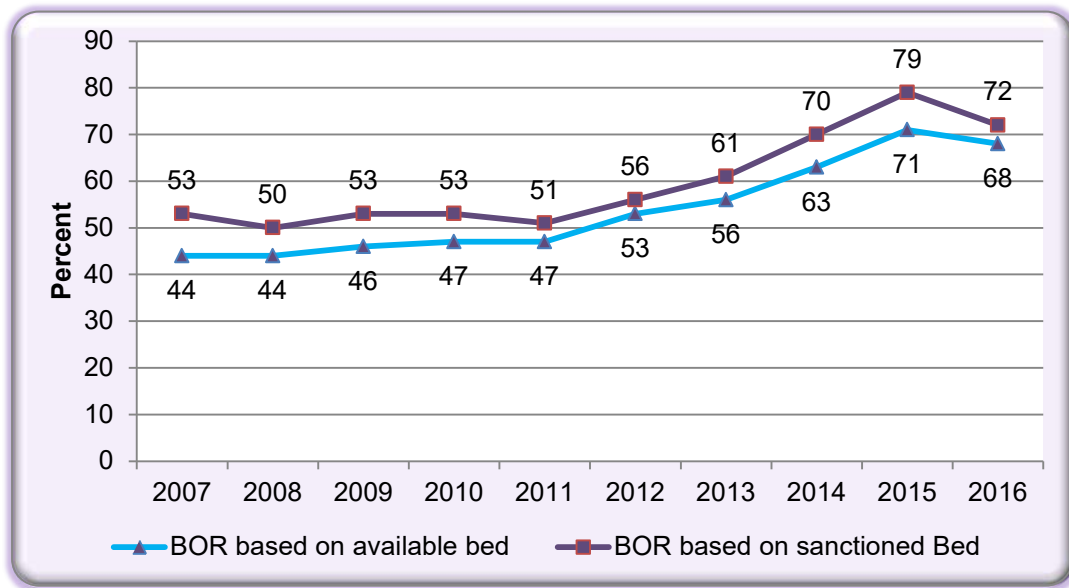
Table (5-3) Estimated Totals for Hospital Resources and Services by Type of Hospitals for Union (2016)

Type of Hospitals	Number of hospitals	Number of Sanctioned beds	Number of Available beds	Number of Admissions	Discharges and Deaths	Number of Deaths	Total Patient days	Out-patients		Total Births		Number of Abortions
								New out-patients	Total out-patients	Live births	Stillbirths	
Specialist Hospitals	32	9150	9048	243613	243847	3893	2306772	487363	1112498	36253	734	4841
General Hospitals	51	18300	18390	1040450	1039287	26693	5546229	1753194	3768062	116530	2714	15389
150 Bedded Hospitals	2	300	126	5062	4967	54	27811	14061	24029	740	21	101
100 Bedded Hospitals	43	4300	4634	260822	260421	3172	1168947	339253	626892	38793	805	5204
50 Bedded Hospitals	113	5650	6072	339722	337328	3117	1373757	510657	825831	58738	1156	7993
25 Bedded Hospitals	159	4000	4637	284698	282731	2321	1158038	696770	1105015	48251	633	7261
16 Bedded Hospitals	21	357	421	11301	11312	11	33398	102017	159913	2800	2	436
Station Hospitals	694	11131	12567	568313	565549	2380	2308276	1680133	2568003	81935	1098	13080
T o t a l	1115	53188	55895	2753981	2745442	41641	13923228	5583448	10190243	384040	7163	54305

Table (5-3) Estimated Totals for Hospital Resources and Services by Type of Hospitals for Union (2016) (Cont.)

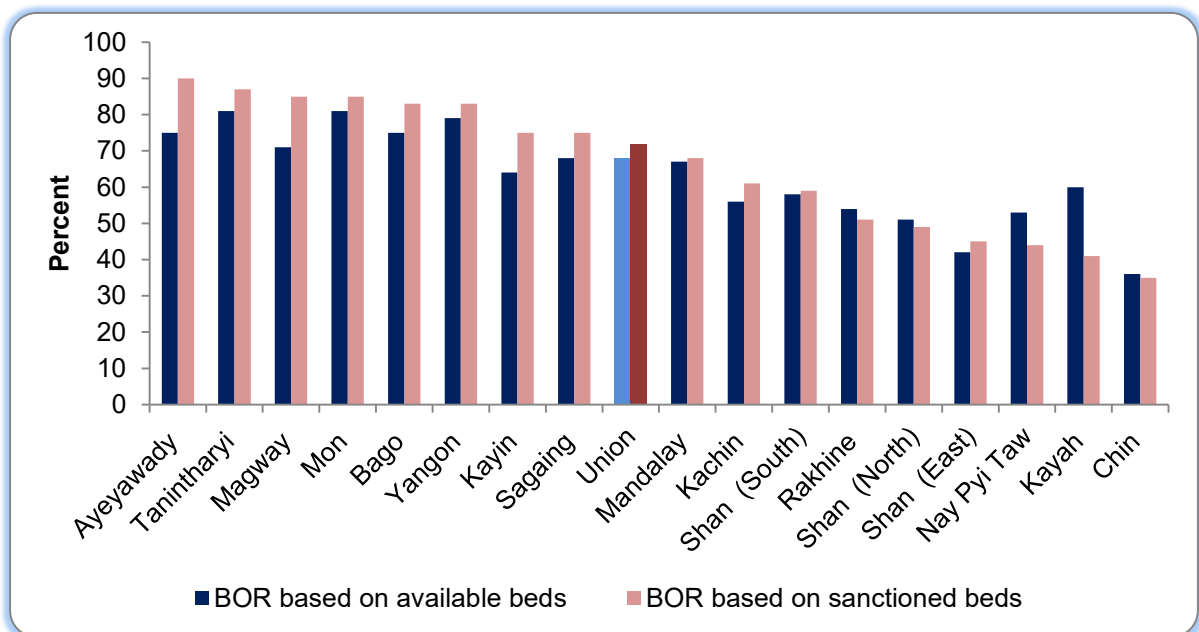
Type of Hospitals	Surgical Operations				Average number of out-patients per day	Average number of in-patients per day	Average duration of stay (in days)	Percentage of occupancy based on available beds	Percentage of occupancy based on sanctioned beds	Average turn-over of patients per bed per year	Average turn-over interval (in days)	Hospital death rate
	General	Spinal	Local	Others								
Specialist Hospitals	18565	26018	33578	6588	4597	6320	9.5	70	69	27	4.1	1.6
General Hospitals	45603	118303	52840	16167	15571	15195	5.3	83	83	57	1.1	2.6
150 Bedded Hospitals	268	219	459	166	99	76	5.6	60	25	39	3.7	1.1
100 Bedded Hospitals	7237	25503	6110	2868	2590	3203	4.5	69	74	56	2.0	1.2
50 Bedded Hospitals	13497	27180	23889	11884	3413	3764	4.1	62	67	56	2.5	0.9
25 Bedded Hospitals	12758	16947	34070	8451	4566	3173	4.1	68	79	61	1.9	0.8
16 Bedded Hospitals	249	96	743	98	661	92	3.0	22	26	27	10.6	0.1
Station Hospitals	21449	29214	71909	12684	10612	6324	4.1	50	57	45	4.0	0.4
T o t a l	119626	243480	223598	58906	42108	38146	5.1	68	72	49	2.4	1.5

Figure (8) Trends of Bed Occupancy Rate (2007-2016)



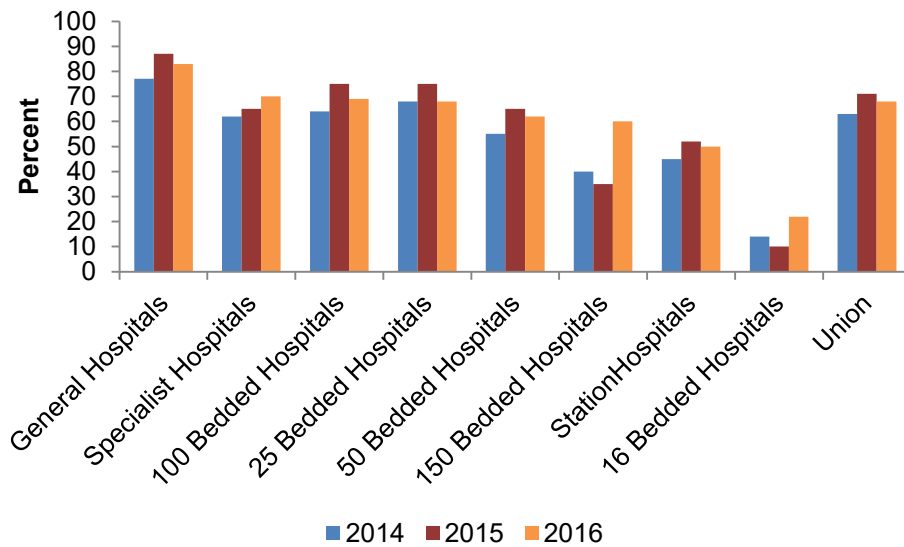
Above figure illustrates the utilization of public hospitals in terms of bed occupancy rate from year 2007 to 2016. In 2016, 72% of sanctioned beds and 68% of available beds were utilized and utilization was found lower than 2015. However, it should be noted that bed occupancy rates are changing based on number of beds. When hospitals are upgraded, numbers of beds are increased and bed occupancy might be lower.

Figure (9) Bed Occupancy Rate by Regions and States (2016)



Utilization of beds in each Region and State are described in Figure (9). Ayeyawady has the highest bed occupancy rate based on sanctioned beds followed by Tanintharyi, Magway and Mon. Chin has the lowest bed occupancy rate.

**Figure (10) Bed Occupancy Rate based on available beds by Type of Hospitals
(2014- 2016)**



**Figure (11) Bed Occupancy Rate based on sanctioned beds by Type of Hospitals
(2014- 2016)**

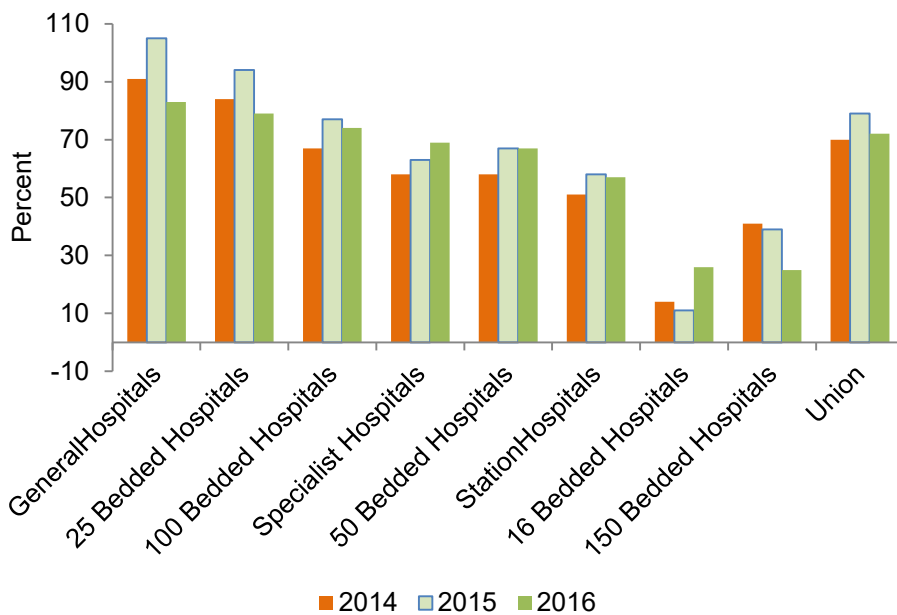
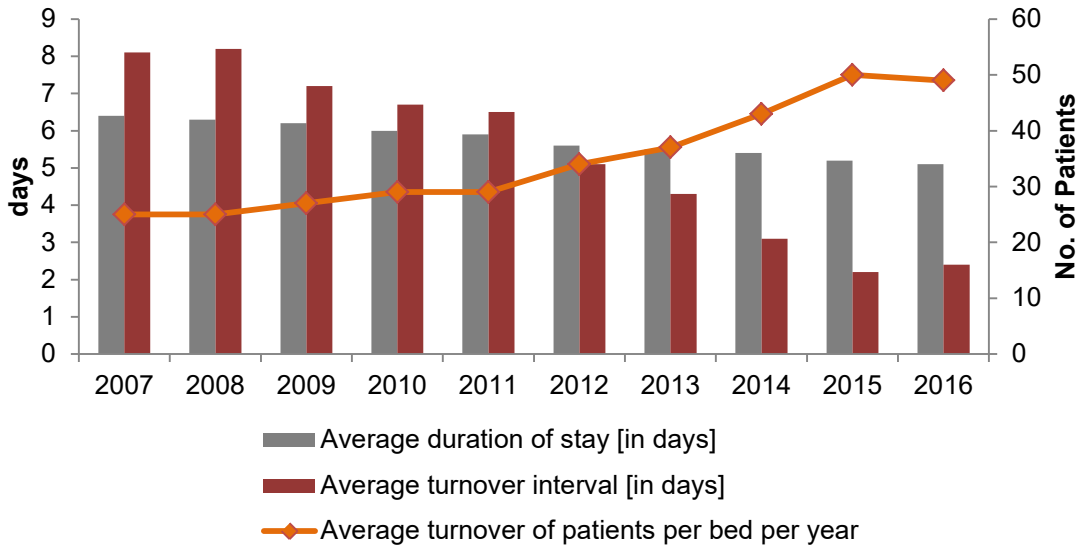


Figure (10) and (11) describes the bed occupancy rates based on available beds and sanctioned beds in each type of hospitals during 2014 to 2016. General hospitals are found more utilized than other types of hospitals and bed occupancy rate of general hospitals based on sanctioned beds was higher than 100% in 2015.

Figure (12) Trends of Hospital Performance (2007-2016)



Bed occupancy rate, average duration of stays and average turnover interval are regarded as hospital performance indicators in most hospital care setting. In addition to these indicators, average turnover interval is also regarded as hospital performance indicators.

Therefore, hospital performance during 2007 to 2016 is shown with average duration of stay, average turnover interval and average turnover of patient per bed per year. Average duration of stay and average turnover intervals are decreasing trends. Approximately fifty patients were admitted and discharged per bed per year during 2015 and 2016. The upward trend of the indicator is found during the last decade (Figure. 12).

Hospital performance of various types of the public hospitals during 2014-2016 was illustrated in the following figures. Average turnover of patients per bed per year was highest in 25 bedded hospitals followed by general hospitals, 100 bedded and 50 bedded hospitals (Figure .13). Average turnover interval is the shortest in General hospitals (Figure. 14). Specialist hospitals have the longest duration of stay, on average, around 10 days. The duration of stay in other types of hospitals are approximately 4 days (Figure. 15).

Figure (13) Average turnover of patients per bed per year by Types of Hospitals (2014-2016)

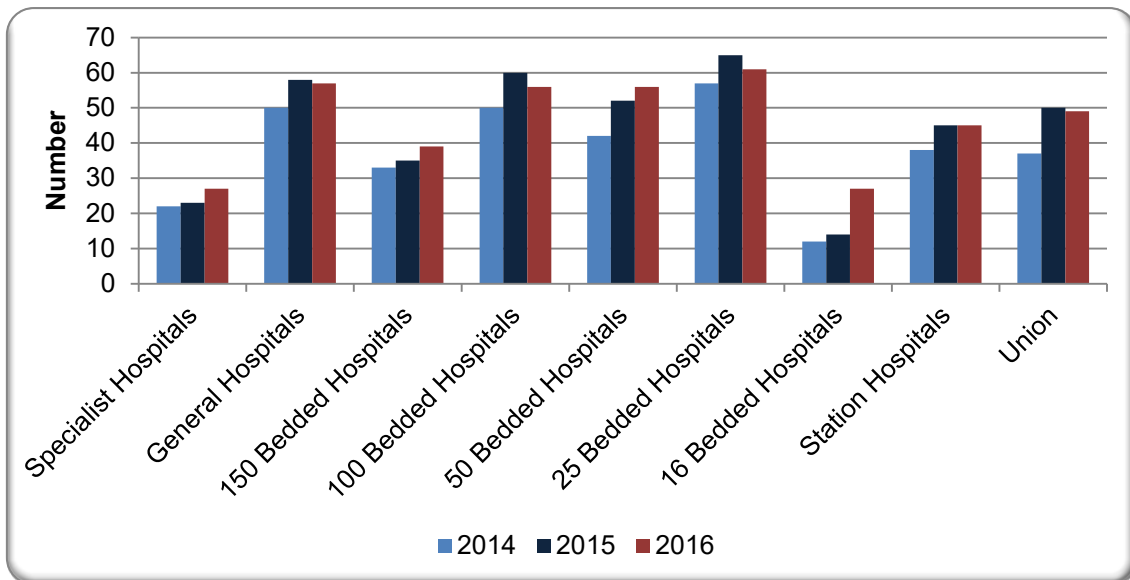


Figure (14) Average turnover interval by Types of Hospitals (2014-2016)

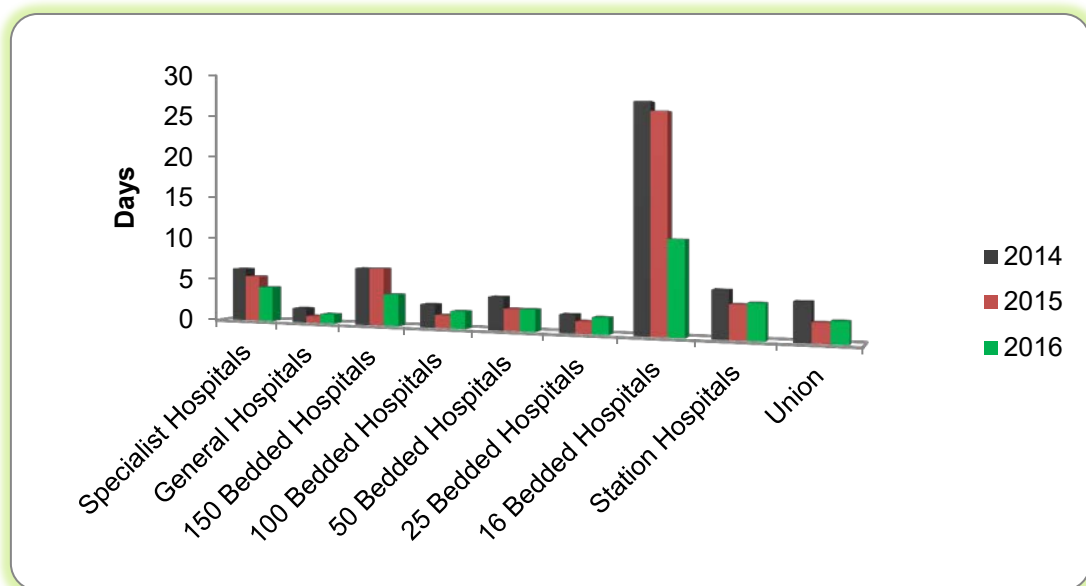


Figure (15) Average duration of Stay by Types of Hospitals (2014-2016)

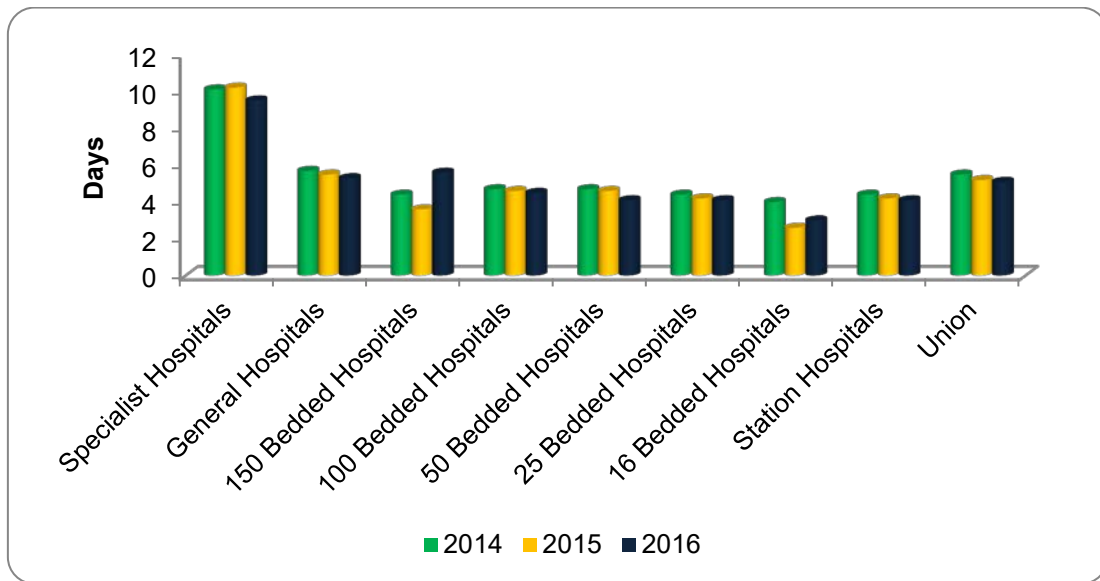
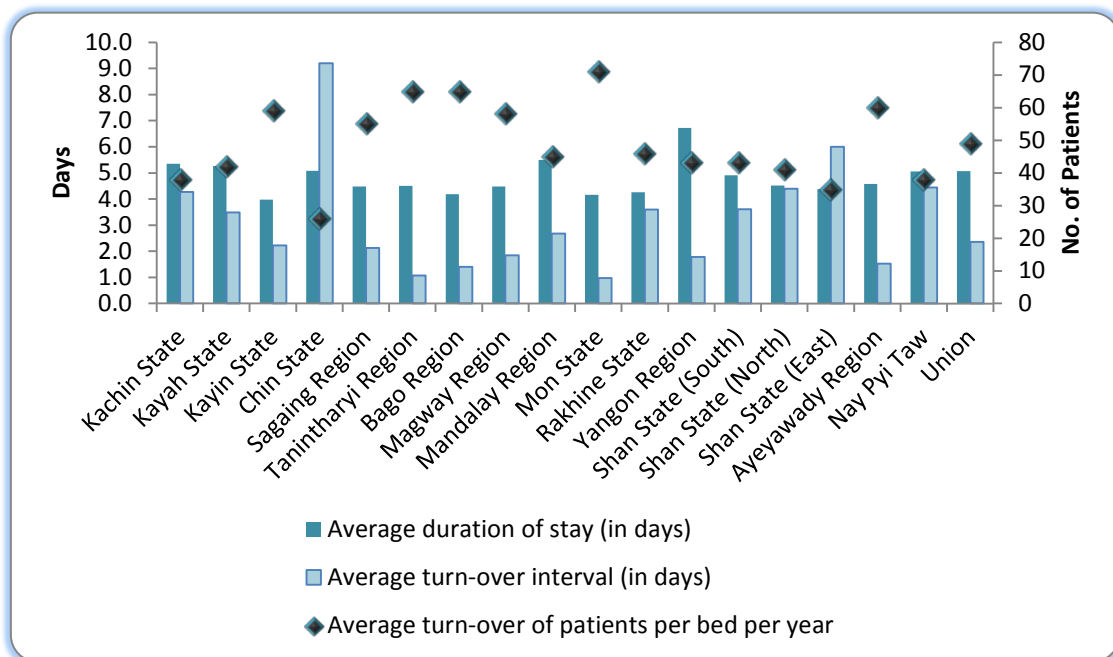
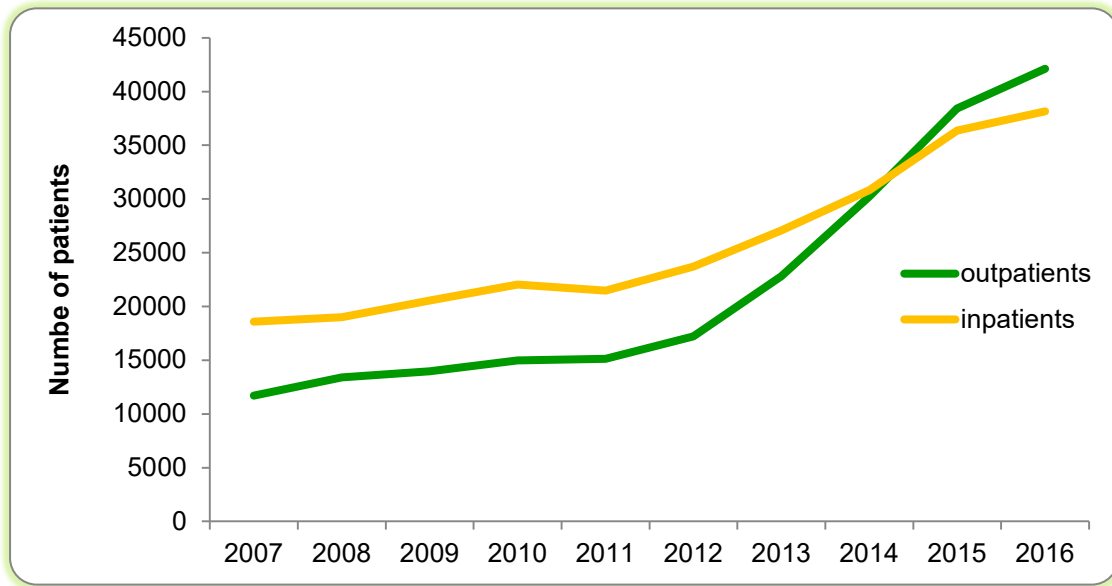


Figure (16) Hospital Performance by Regions and States (2016)



According to the three indicators illustrated in the above figure, Mon State has the highest turnover of patients per bed and the shorter turnover interval and duration of stay. It is followed by Tanintharyi and Bago.

Figure (17) Utilization of Public Hospitals (Average No. of Inpatients & Outpatients per Day) (2007-2016)



Average number of inpatients and outpatients per day is increasing trend during 2007 to 2016 and significant upward pattern is found during 2013 to 2016.

Figure (18) Utilization of Public Hospitals by Type of Hospitals (2016)

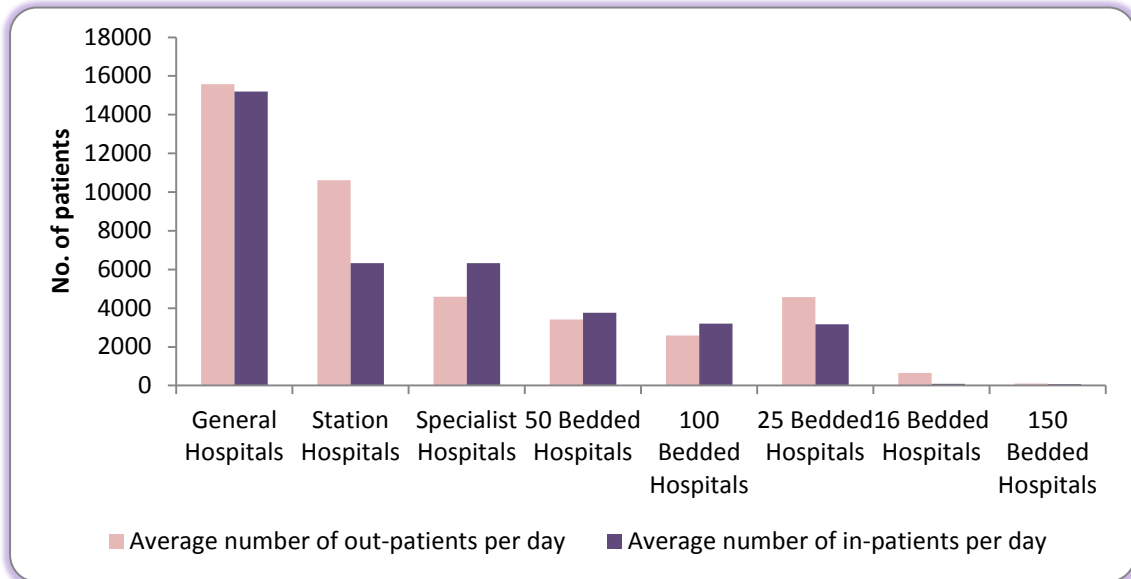


Figure (19) Utilization of Public Hospitals by Regions and States (2016)

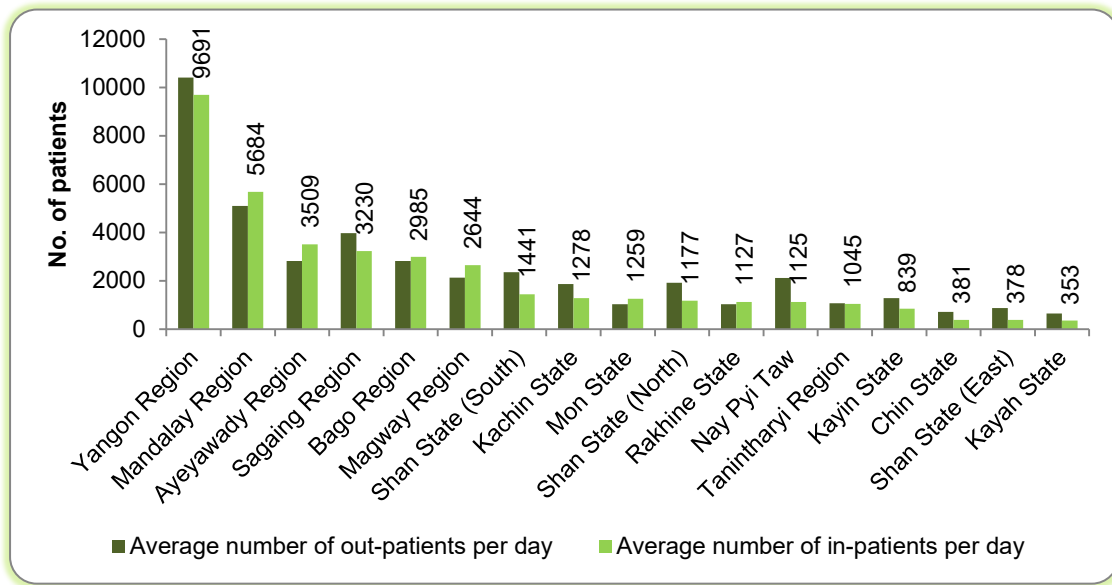


Figure (18) and (19) shows utilization of hospitals in terms of average number of inpatients and outpatients per day by types of hospital and by Regions and States. Average number of inpatients and outpatients are highest in Yangon followed by Mandalay and Ayeyawady.

Figure (20) Outpatient attendances by Regions and States (2014-2016)

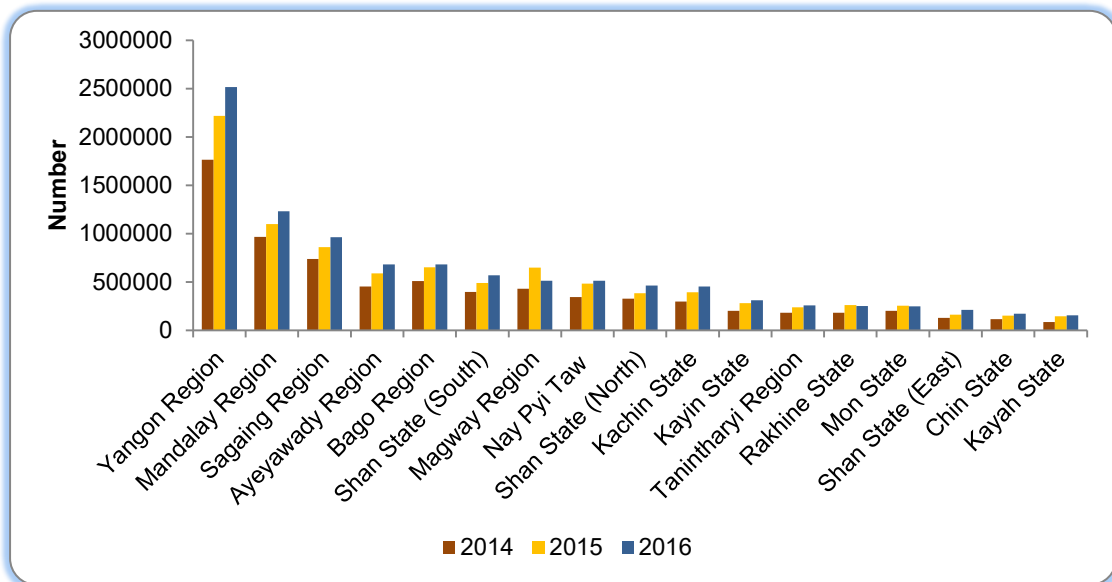


Figure (21) Outpatient attendances by Type of Hospitals (2014-2016)

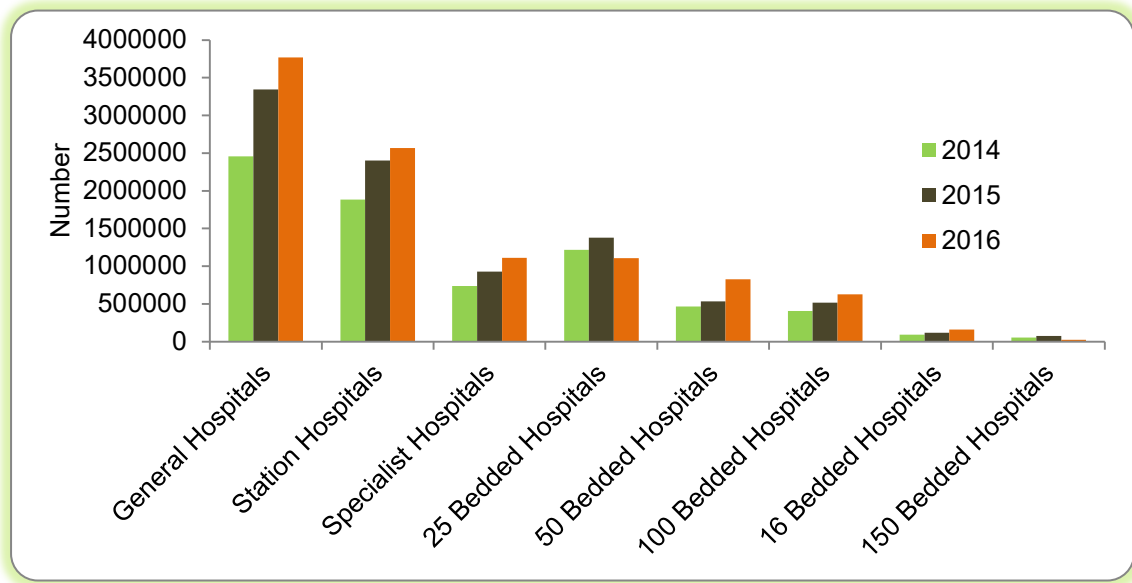
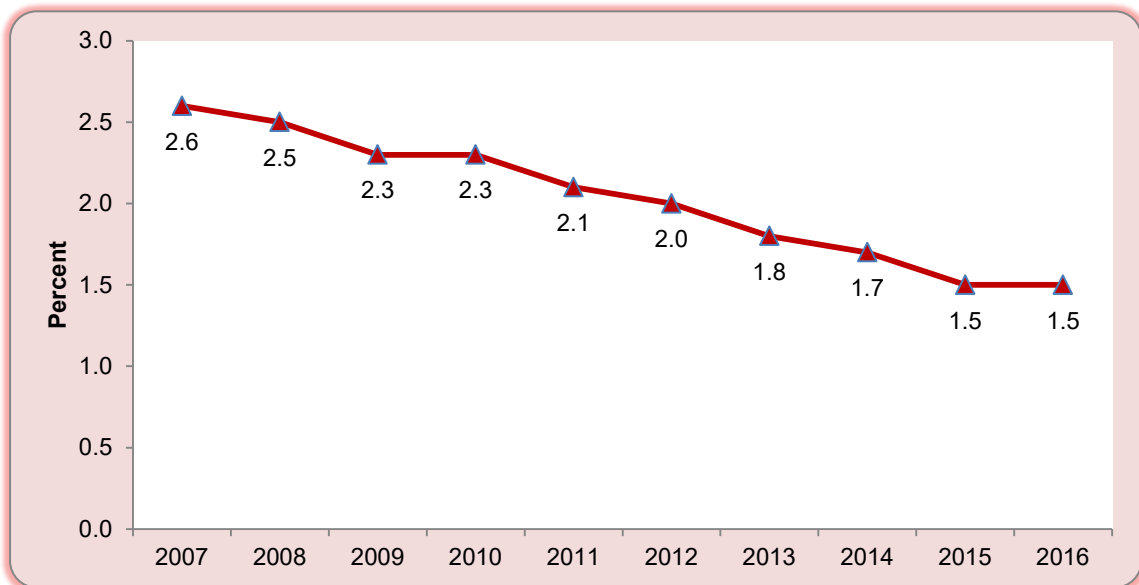


Figure (20) and (21) describes total number of outpatient attendances during three consecutive years (2014-2016).

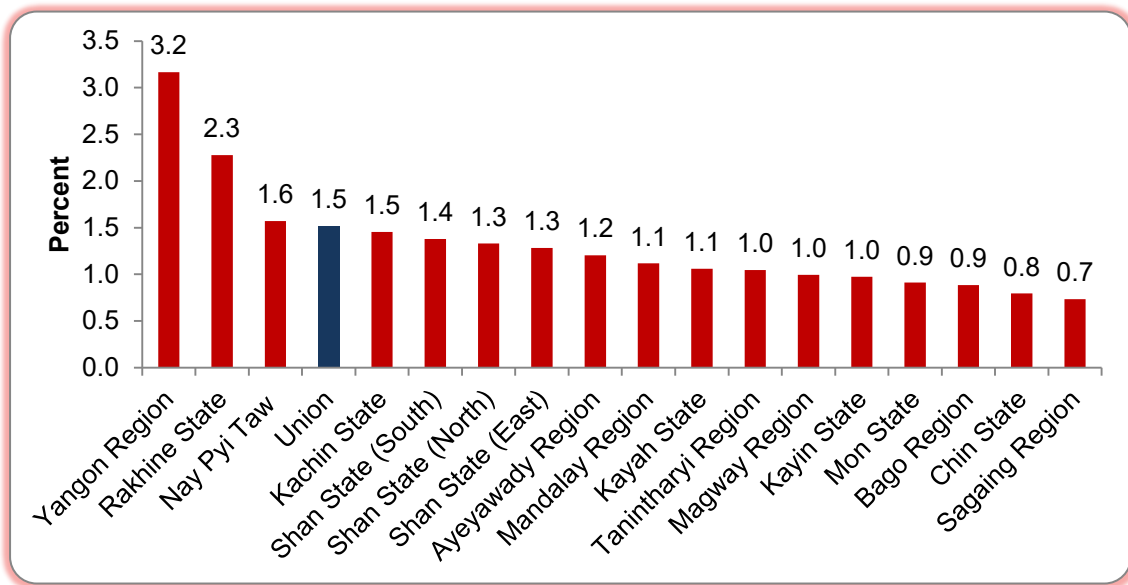
Figure (22) Hospital Death Rate (2007-2016)



Hospital death rate is calculated as percentage of total discharges and deaths. During 2007 to 2016, it was in decreasing trend and it was 2.6% in 2007 to 1.5% in 2016.

It was again described by Regions and State in Figure (23). Yangon has the highest hospital death rate (3.2%) followed by Rakhine (2.3%) and Nay Pyi Taw (1.6%).

Figure (23) Hospital Death Rate by Regions and States(2016)



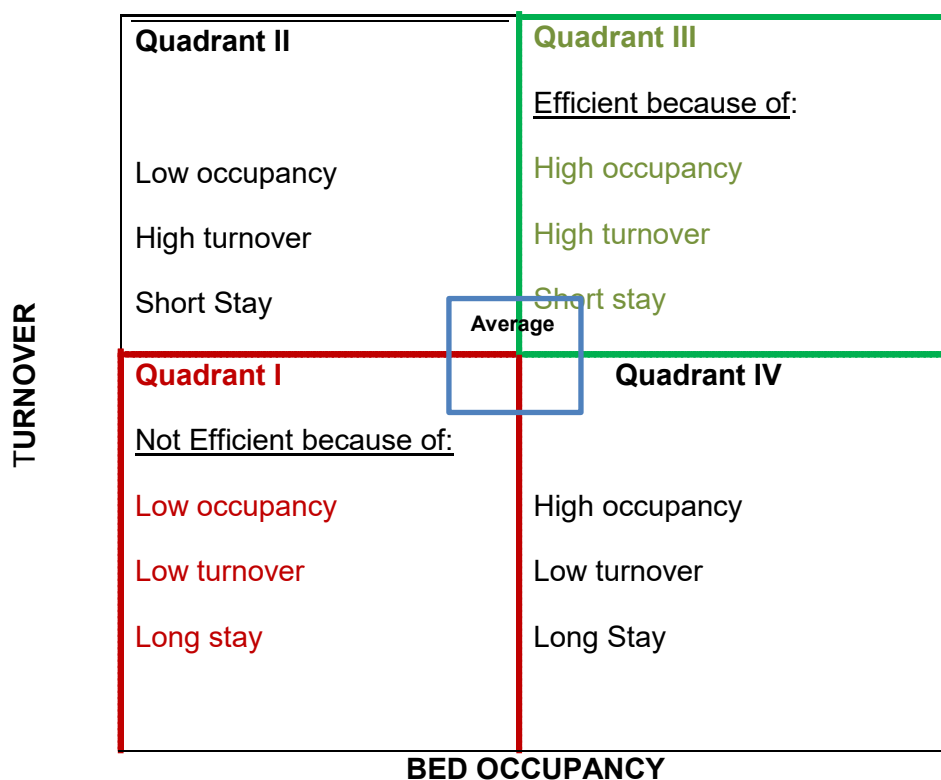
ASSESSMENT ON HOSPITAL EFFICIENCY WITH THE PABÓN LASSO TECHNIQUE

PART C

Hospital efficiency is analyzed by applying the Pabón Lasso technique. It is a graphical method that makes use of the three indicators; bed occupancy rate, average turnover of patients per bed per year and average length of stay concurrently in assessing the relative performance of hospitals.

In this method, the bed occupancy rate based on sanctioned bed (on the horizontal axis), is plotted against average turnover of patients per bed per year (on the vertical axis), with vertical and horizontal lines dividing the diagram into four regions. The horizontal and vertical demarcations represent the mean values of those indicators. According to the functional relationship of the three measures, any point on the graph represents the reciprocal of the average length of stay of the hospital under consideration. Figure (24) represents the possible features of hospitals located in each of the four regions.

Figure (24) Interpretation of efficiency according to Pabón Lasso*



*from Bamum and Kutzin

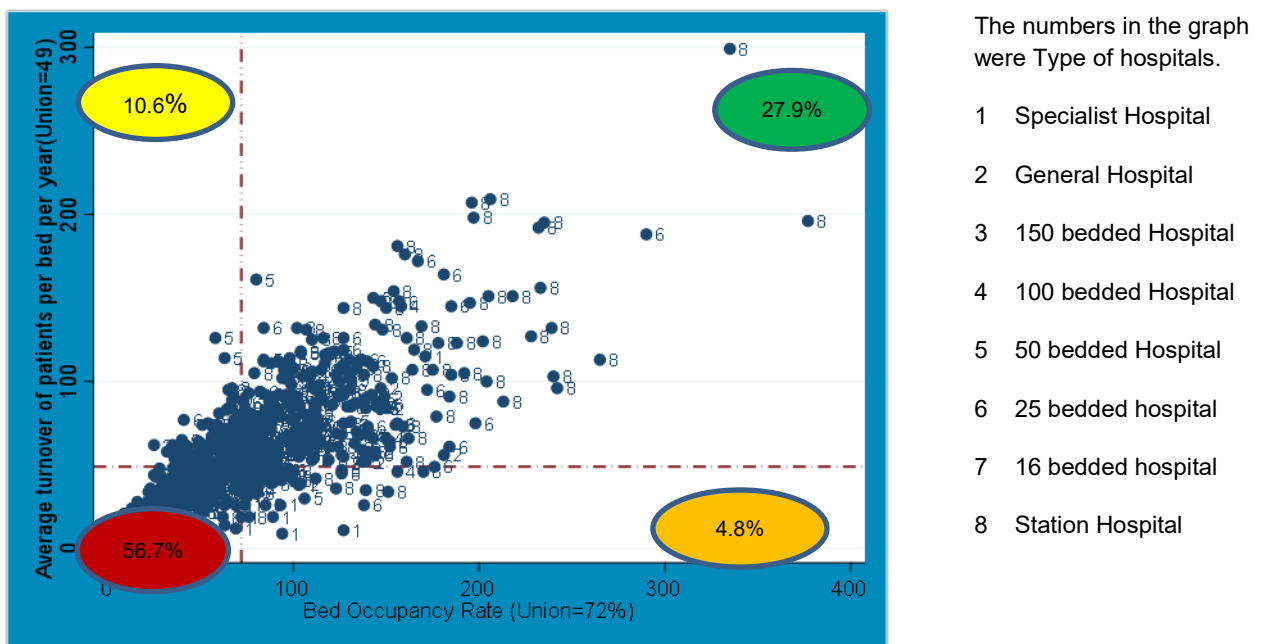
To assess the efficiency of all the public hospitals under Ministry of Health and Sports during 2014 -2016, union figures of bed occupancy rate based on sanctioned bed and average turnover of patients per bed per year were used as cut-off points for the Pabón Lasso graph. The number of hospitals used in this assessment excludes the hospitals under

other Ministries. The non-reporting hospitals under Ministry of Health and Sports are also included in this assessment.

As described in Figure (25), 304 hospitals were located in the desirable zone (Quadrant III), accounting for 27.9% of all hospitals under MOHS while 617 hospitals (56.7%) were in the Quadrant I representing poor performance of the hospitals.

Among 304 hospitals in the desirable zone of Pabón Lasso graph which have higher bed occupancy rate and average turnover of patients per bed per year than Union figures, some of the hospitals had utilized more than twice of their capacity in terms of sanctioned beds (Figure. 25).

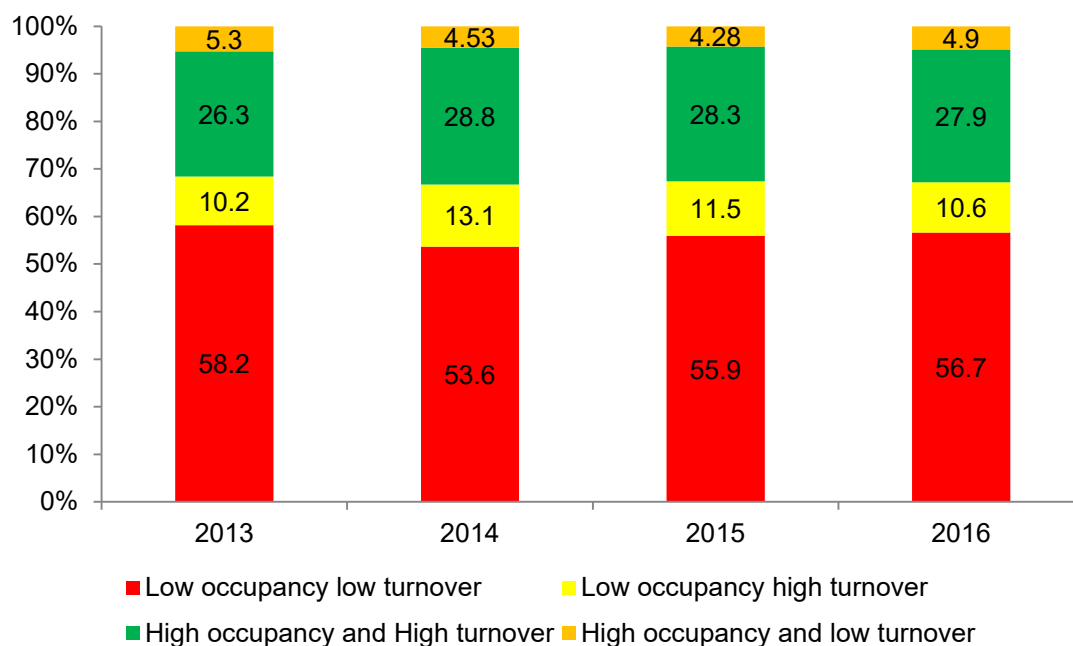
Figure (25) Pabón Lasso graph for all Public hospitals under Ministry of Health and Sports (2016)



Note; Non-reporting hospitals were counted as hospitals with poor performance and located in left lower zone.
n = total number of all Hospitals under MOHS (1089 hospitals)

In order to visualize the performance of the public Hospitals under MOHS during 2013 to 2016, the data are analyzed with Pabón Lasso technique and the percent distributions in four quadrants are described in Figure (26).

Figure (26) Distribution of Hospital Performance according to Pabón Lasso technique (2013-2016)



The hospitals which had at least 90% bed occupancy rate were extracted from all hospitals of the desirable zone and it was found that 241 hospitals were using $\geq 90\%$ of the sanctioned beds. It also accounted for 23.5% of all the public hospitals under MOHS. The names of these hospitals were stated together with three hospital utilization indicators in Table (6).

Table (6) Hospitals in the desirable zone of Pabón Lasso graph which also had $\geq 90\%$ bed occupancy rate (2014-2016)

	Name	Region and State	Bed Occupancy Rate(%) based on sanctioned bed			Average turnover of patients per bed per year			Average duration of Stay (in days)		
			2014	2015	2016	2014	2015	2016	2014	2015	2016
	General Hospital		2014	2015	2016	2014	2015	2016	2014	2015	2016
1	Dawei	Tanintharyi	122	145	147	76	85	96	6	5	5
2	East Yangon Hospital	Yangon	103	114	111	46	52	54	6	6	5
3	Hinthada	Ayeyawady	110	143	139	62	61	52	6	5	5
4	Hpa-an	Kayin	104	123	139	63	82	90	5	4	4
5	Insein General Hospital*	Yangon	154	165	108	84	85	76	4	4	4
6	Magway	Magway	145	171	181	78	78	56	7	6	6
7	Myeik	Tanintharyi	112	138	150	74	79	84	6	5	5
8	Pakokku	Magway	109	143	149	92	103	91	4	4	4
9	Sanpya Hospital[Thingangyun]*	Yangon	211	233	145	86	98	87	6	6	6
10	Taungngu	Bago	142	151	143	71	75	66	5	5	5
	100 Bedded Hospital		2014	2015	2016	2014	2015	2016	2014	2015	2016
1	Mogok	Mandalay	114	157	150	67	64	66	6	6	6
2	Muse	Shan(North)	94	97	110	77	73	97	4	4	4
3	Myawady	Kayin	115	118	115	73	80	73	5	4	4
4	Myinchan	Mandalay	121	131	147	102	120	86	4	4	4
5	Phyu	Bago	107	161	158	81	145	145	4	4	4
6	Thandwe	Rakhine	96	114	112	58	63	69	5	6	5
7	Thaton	Mon	110	124	117	101	123	116	4	4	4
8	Yamethin	Mandalay	96	111	109	75	79	103	4	4	4

Table (6) Hospitals in the desirable zone of Pabón Lasso graph which also had $\geq 90\%$ bed occupancy rate (2014-2016) cont.

	Name	Region and State	Bed Occupancy Rate(%) based on sanctioned bed			Average turnover of patients per bed per year			Average duration of Stay (in days)		
			2014	2015	2016	2014	2015	2016	2014	2015	2016
	50 Bedded Hospital		2014	2015	2016	2014	2015	2016	2014	2015	2016
1	Gyobingauk	Bago	101	110	110	61	88	75	5	5	4
2	Hmawbi	Yangon	117	113	127	73	80	92	6	5	5
3	Kawlin	Sagaing	103	127	131	73	91	101	5	5	5
4	Kayan[Thanlyin]	Yangon	104	123	103	78	94	86	5	5	4
5	Myinmu	Sagaing	92	128	131	64	93	76	5	4	4
6	Pharkant	Kachin	113	109	98	96	101	100	4	4	4
7	Tada U	Mandalay	102	121	104	71	80	72	4	4	4
8	Taikkyi	Yangon	153	148	139	103	138	84	4	4	4
9	Wakema	Ayeyawady	127	142	147	97	122	84	5	4	4
	25 Bedded Hospital		2014	2015	2016	2014	2015	2016	2014	2015	2016
1	Bilin	Mon	147	183	181	144	170	164	4	4	4
2	Chaung U	Sagaing	114	101	100	103	111	108	4	3	3
3	Hlaingthayar	Yangon	117	104	140	108	89	112	2	2	3
4	Indaw	Sagaing	107	95	98	86	104	114	5	3	3
5	Kanyutkwin[Phyu]	Bago	151	168	140	75	155	73	5	4	4
6	Kawa	Bago	93	108	119	54	52	53	5	5	5
7	Kyangin	Ayeyawady	108	172	198	59	83	75	4	5	4
8	Laikha[Laichar]	Shan(South)	112	143	185	74	96	145	5	5	5
9	Minhla	Magway	178	149	98	139	141	91	5	4	4
10	Minsu[Kyaukse]	Mandalay	114	133	127	105	122	126	4	4	4
11	Myainggyingu [Hlaingbwe]	Kayin	242	236	156	91	72	75	5	5	5
12	Myothit	Magway	124	122	115	87	100	107	5	4	4
13	Namlan[Thipaw]	Shan(North)	124	108	100	66	65	68	6	6	5

Table (6) Hospitals in the desirable zone of Pabón Lasso graph which also had $\geq 90\%$ bed occupancy rate (2014-2016) cont.

	Name	Region and State	Bed Occupancy Rate(%) based on sanctioned bed			Average turnover of patients per bed per year			Average duration of Stay (in days)		
			2014	2015	2016	2014	2015	2016	2014	2015	2016
	25 Bedded Hospital										
14	Nattalin	Bago	160	152	167	136	146	172	4	4	4
15	Naungcho	Shan(North)	109	108	114	47	50	98	5	4	4
16	Oktwin	Bago	103	123	137	97	78	88	4	4	4
17	Pale	Sagaing	117	121	150	86	109	144	5	4	4
18	Pantanaw	Ayeyawady	231	294	290	131	252	188	4	4	4
19	Paukhaung	Bago	168	172	157	70	58	148	4	4	4
20	Pauktaw	Rakhine	90	95	131	68	74	85	3	3	4
21	Pinlaung	Shan(South)	103	114	121	98	108	86	4	4	4
22	Salingyi	Sagaing	98	98	128	81	76	107	4	5	4
23	Shwedaung	Bago	130	133	105	68	77	61	4	4	3
24	Tamakhan[Pharkant]	Kachin	112	100	92	100	85	83	4	4	4
25	Taze	Sagaing	176	155	140	128	58	58	5	5	5
26	Wuntho	Sagaing	138	135	105	72	72	68	7	7	6
27	Yedashe	Bago	107	209	130	84	85	104	5	5	5
28	Yegyí	Ayeyawady	236	221	176	61	54	49	6	6	5
29	Ywangan	Shan(South)	132	94	113	78	69	76	6	5	5
	Station Hospital		2014	2015	2016	2014	2015	2016	2014	2015	2016
1	Hopin[Mohnyin]	Kachin	109	170	103	44	72	55	4	4	4
2	Ahpyauk[Taikkyi]	Yangon	192	171	161	73	144	126	5	4	5
3	Ahthoke[Yegyí]	Ayeyawady	175	212	205	110	140	151	6	6	5

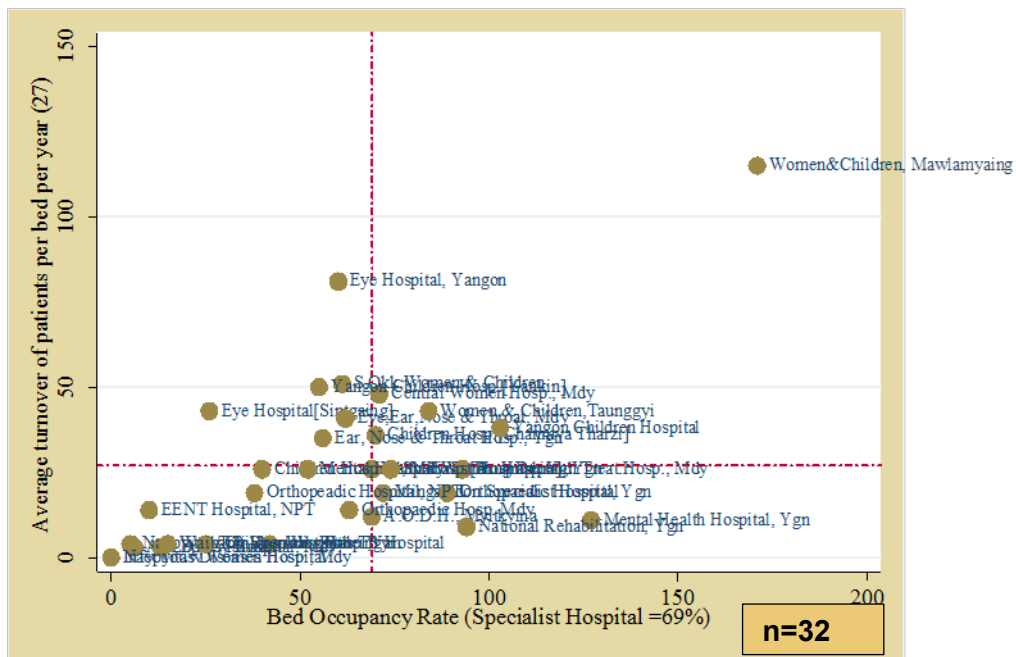
Table (6) Hospitals in the desirable zone of Pabón Lasso graph which also had $\geq 90\%$ bed occupancy rate (2014-2016) cont.

	Name	Region and State	Bed Occupancy Rate(%) based on sanctioned bed			Average turnover of patients per bed per year			Average duration of Stay (in days)		
			2014	2015	2016	2014	2015	2016	2014	2015	2016
	Station Hospital										
4	Aingthabyu[Lemyethna]	Ayeyawady	105	121	114	70	77	93	6	6	4
5	Aungban[Kalaw]	Shan(South)	220	247	265	96	90	113	4	4	3
6	Bahin[Myaing]	Magway	90	134	98	92	137	92	4	4	4
7	Chaungna[Kawlin]	Sagaing	116	139	143	71	89	109	6	6	5
8	Danbi[Hinthada]	Ayeyawady	110	152	188	72	107	123	6	5	6
9	Duya[Hinthada]	Ayeyawady	122	143	184	69	82	91	4	4	5
10	Hlelanku[Htantabin]	Bago	122	192	204	90	151	100	5	5	5
11	Htonbo[Pandaung]	Bago	92	129	136	70	56	68	5	5	5
12	Inn-ma[Thegone]	Bago	156	155	155	91	72	74	3	3	3
13	Kanbauk[Yebyu]	Tanintharyi	118	100	108	62	54	67	4	4	3
14	Khwetkhwin[Myinmu]	Sagaing	271	205	175	137	130	107	7	6	6
15	Konemyint[Yekyi]	Ayeyawady	274	299	228	151	175	127	7	6	7
16	Kume[Myittha]	Mandalay	158	187	164	89	115	107	4	4	4
17	Kwinkauk[Ingapu]	Ayeyawady	207	374	377	64	221	196	6	6	7
18	Kyondoe[Kawkareik]	Kayin	143	162	98	134	173	110	3	3	3
19	Kyonmange[Wakema]	Ayeyawady	115	103	218	69	67	151	6	6	5
20	Kyonshar[Zalun]	Ayeyawaddy	115	112	116	80	59	89	5	5	5
21	Lonekhin[Pharkant]	Kachin	106	134	144	128	153	134	3	3	3
22	Ma Lai Thar[Ayadaw]	Sagaing	106	110	114	85	98	65	5	4	5
23	Mezalegone[Ingabu]	Ayeyawaddy	197	211	152	56	130	61	7	6	6

Table (6) Hospitals in the desirable zone of Pabón Lasso graph which also had $\geq 90\%$ bed occupancy rate (2014-2016) cont.

	Name	Region and State	Bed Occupancy Rate(%) based on sanctioned bed			Average turnover of patients per bed per year			Average duration of Stay (in days)		
			2014	2015	2016	2014	2015	2016	2014	2015	2016
	Station Hospital										
24	Muyitkale[Chaungzon]	Mon	106	107	125	58	52	108	5	5	4
25	Myitche[Pakokhu]	Magway	104	98	127	117	121	144	3	3	3
26	Myo Hla[Yedashe]	Bago	135	127	127	66	68	75	4	3	3
27	Natchaung[Kalay]	Sagaing	126	125	144	80	93	58	6	5	5
28	Ngathainggyaung[Yegyí]	Ayeyawady	184	232	233	105	153	156	6	6	5
29	Penwegone[Kyauktaga]	Bago	182	163	127	56	69	110	6	4	4
30	Phado[Kyauktaga]	Bago	220	256	242	82	101	96	5	4	4
31	Pwehla[Pindaya]	Shan(South)	103	131	126	49	67	68	6	6	5
32	Pyuntaza[Nyaunglebin]	Bago	257	234	240	114	133	103	4	3	3
33	Sartaung[Sagaing]	Sagaing	376	331	202	259	227	124	5	5	6
34	Seikkhun[Shwebo]	Sagaing	98	121	129	65	83	85	6	5	6
35	Shake[Hinthada]	Ayeyawady	112	142	160	100	139	176	4	4	3
36	Sinmezwe[Thegone]	Bago	164	180	137	51	64	59	5	5	4
37	Swa[Yedashe]	Bago	182	171	148	47	55	131	6	5	4
38	Tagaung[Thabeikkyin]	Mandalay	119	112	138	76	55	104	6	5	5
39	Thakhuttanai[Budalin]	Sagaing	129	173	133	109	119	87	4	4	4
40	Welaung[Taungtha]	Mandalay	164	163	119	78	109	61	6	5	6
41	Yele[Zalun]	Ayeyawady	94	137	104	56	62	59	6	8	6
42	Ywathit[Einme]	Ayeyawady	160	227	197	115	228	198	4	4	4
43	Ywathitgyi[Sagaing]	Sagaing	301	285	235	130	225	195	5	5	4
44	Zayatgyi[Htantabin]	Bago	90	164	206	83	153	209	4	4	4
45	Zayawady[Phyu]	Bago	108	180	153	49	109	102	5	5	4

Figure (27) Pabón Lasso graph for all Specialist Hospitals under MOHS(2016)



Note; Non-reporting hospitals were counted as hospitals with poor performance and located in left lower zone.
 n = total number of Specialist Hospitals under MOHS

To assess efficiency of 32 specialist hospitals under MOHS, the lines of demarcation were bed occupancy rate (69%) and average turnover of patients per bed per year (about 27 patients) of all specialist hospitals under MOHS. According to the above figure, five hospitals (15.6% of all) were in Zone III of the model, indicating a satisfactory level of efficiency while 13 hospitals (40.6%) were in Zone I, having below-average level performance.

Figure (28) Distribution of Performance of Specialist Hospital according to Pabón Lasso technique (2013-2016)

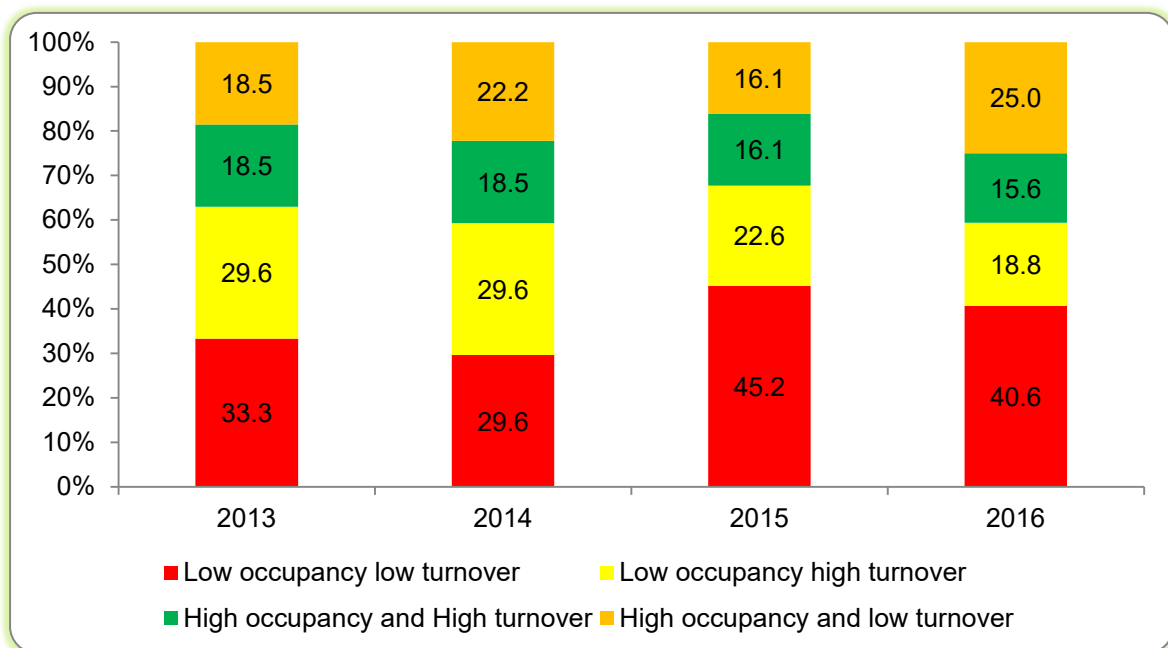
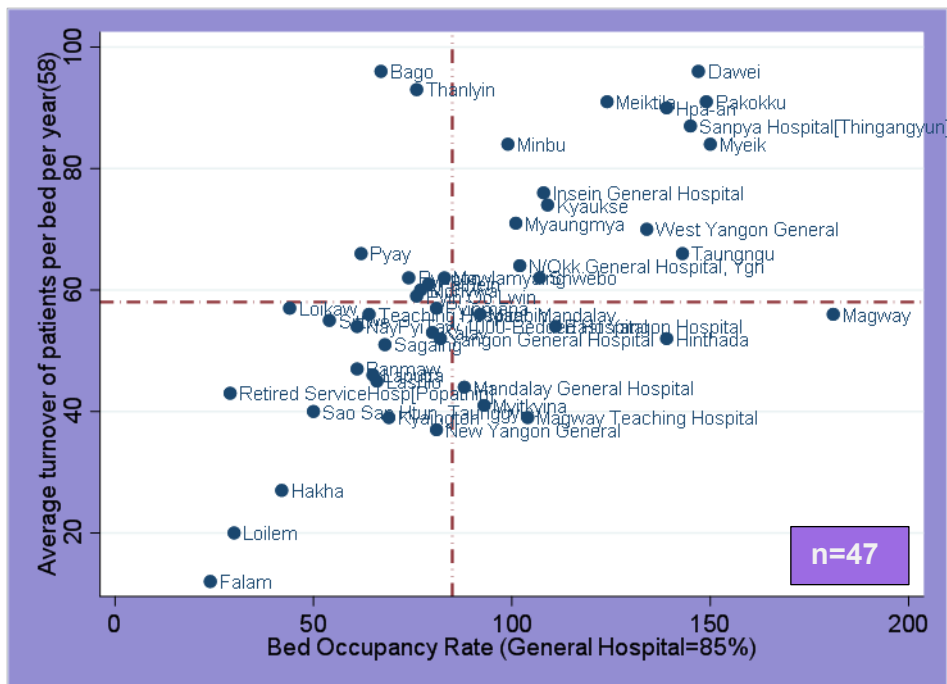


Figure (29) Pabón Lasso graph for all General Hospitals under MOHS (2016)



Note; Non-reporting hospitals were counted as hospitals with poor performance and located in left lower zone.
 n = total number of General Hospitals under MOHS

Regarding hospital utilization, all general hospitals under MOHS were utilizing 85% of their sanctioned beds in average and 58 patients were discharged from each bed during 2016. According to Figure (29), 17 hospitals (36%) have more than 100% bed occupancy rate based on sanction bed and 14 hospitals (30%) are in Zone III having the above average level of performance. Falam, Loilen and Hakha are situated in Zone I having the lowest bed occupancy and lowest turnover of patients.

Figure (30) Distribution of Performance of General Hospital according to Pabón Lasso technique (2013-2016)

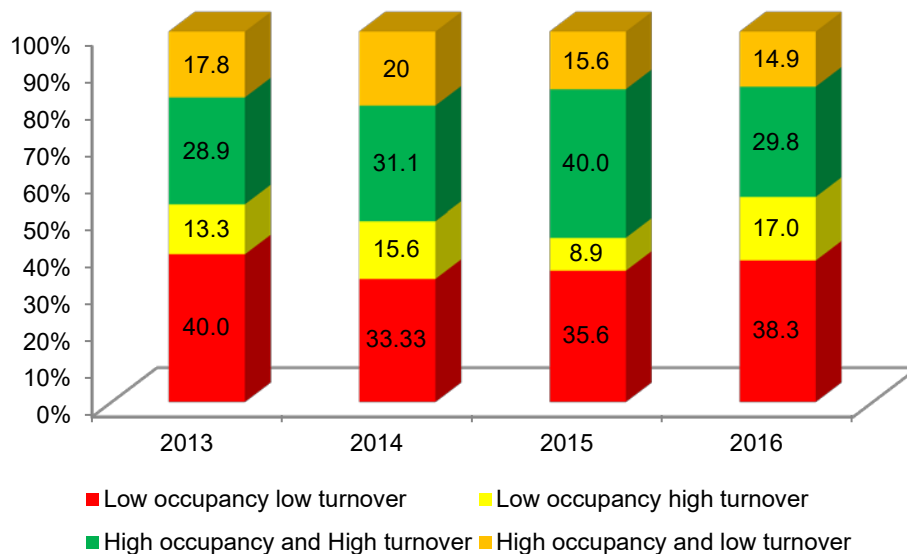
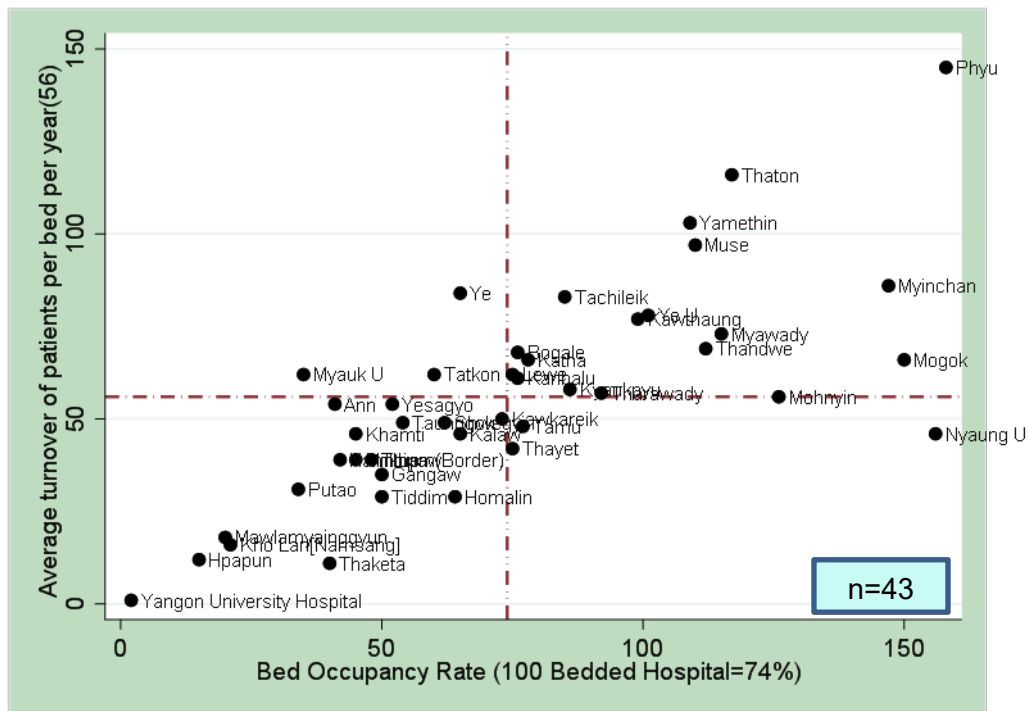


Figure (31) Pabón Lasso graph for 100 bedded hospitals under MOHS (2016)



Note; Non-reporting hospitals were counted as hospitals with poor performance and located in left lower zone.

n = total number of 100 Bedded Hospitals under MOHS

During 2016, 42% of 100 bedded hospitals have satisfactory level of performance according to Pabón Lasso technique while 44% are in undesirable zone. Phyu hospital has the highest bed occupancy rate and highest turnover of patients per bed per year.

Figure (32) Distribution of Performance of 100 bedded Hospital according to Pabón Lasso technique (2013-2016)

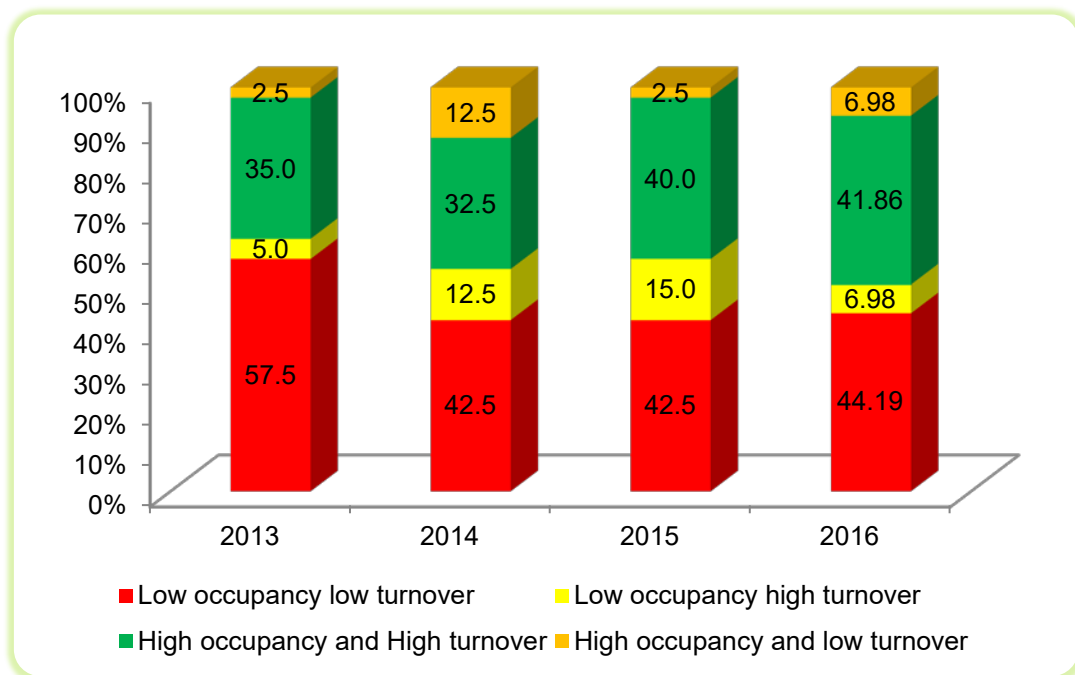
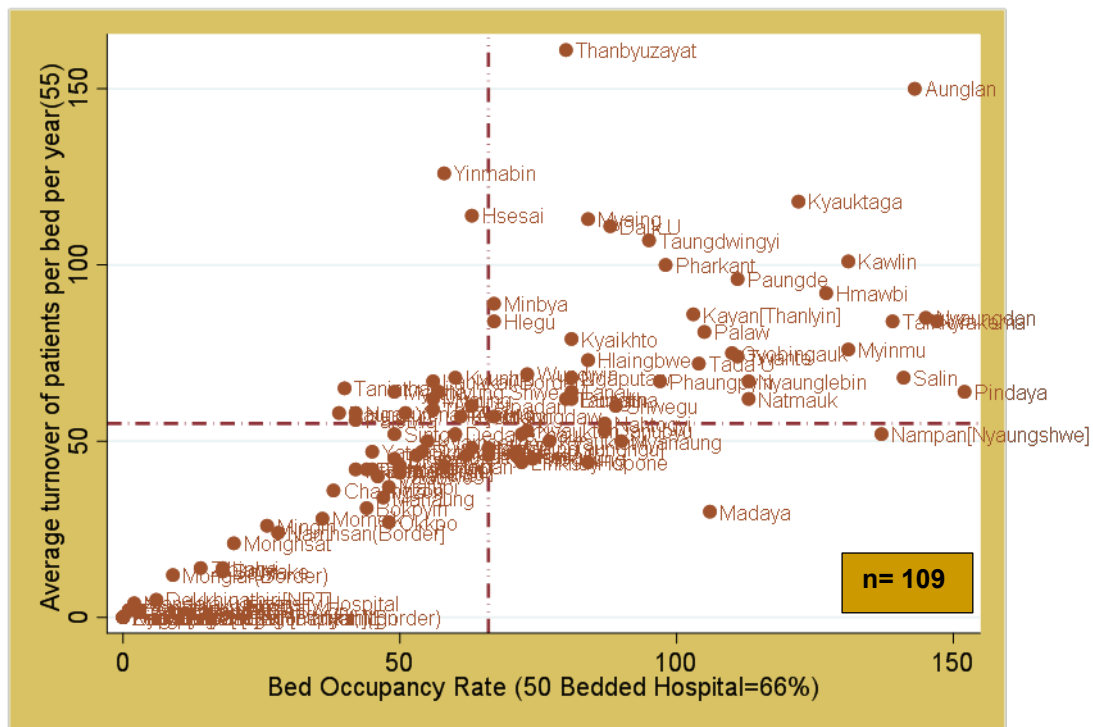


Figure (33) Pabón Lasso graph for 50 bedded hospitals under MOHS (2016)



Note; Non-reporting hospitals were counted as hospitals with poor performance and located in left lower zone.

n = total number of 50 Bedded Hospitals under MOHS,

Among the 50 bedded hospitals, 33% are in the desirable zone while 40% are found to have low bed occupancy and low turnover of patients per bed per year.

Figure (34) Distribution of Performance of 50 bedded Hospital according to Pabón Lasso technique (2013-2016)

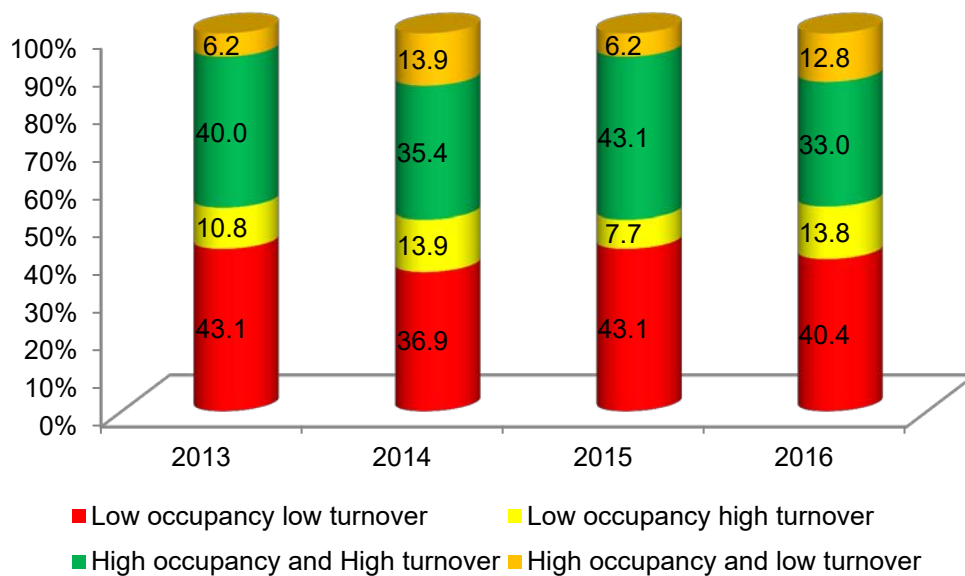
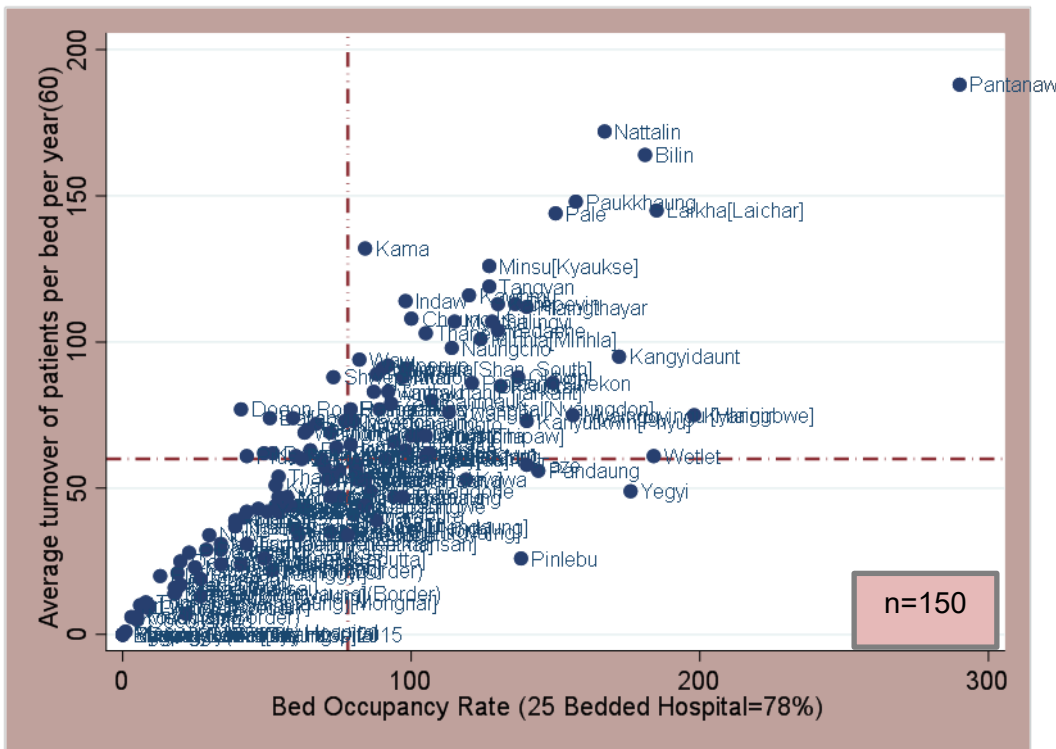


Figure (35) Pabón Lasso graph for 25 bedded hospitals under MOHS (2016)



Note; Non-reporting hospitals were counted as hospitals with poor performance and located in left lower zone.
n = total number of 25 Bedded Hospitals under MOHS

Among 25 Bedded hospitals, 53 hospitals (35% out of 150 hospitals) have satisfactory level of utilization while 42 % of the hospitals are found to have underutilization of hospital resources.

Figure (36) Distribution of Performance of 25 bedded Hospital according to Pabón Lasso technique (2013-2016)

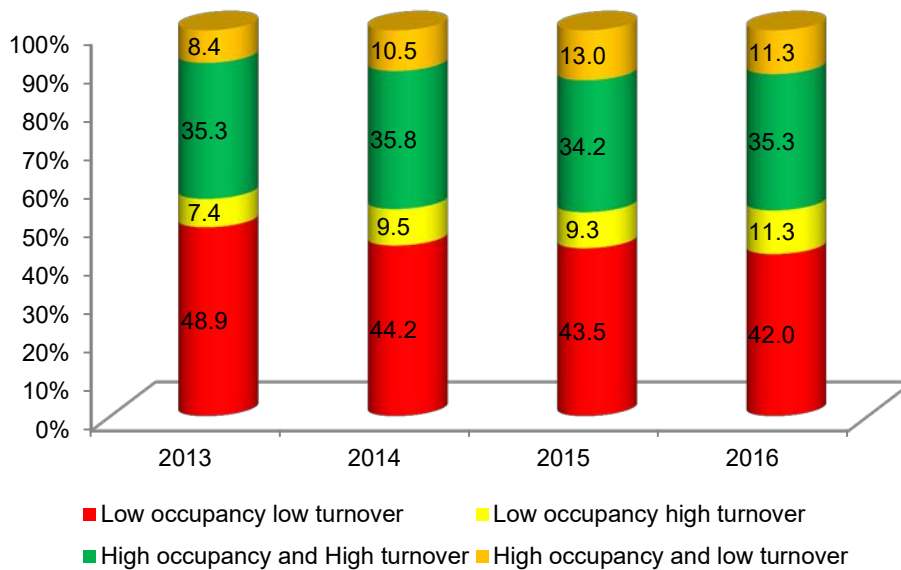
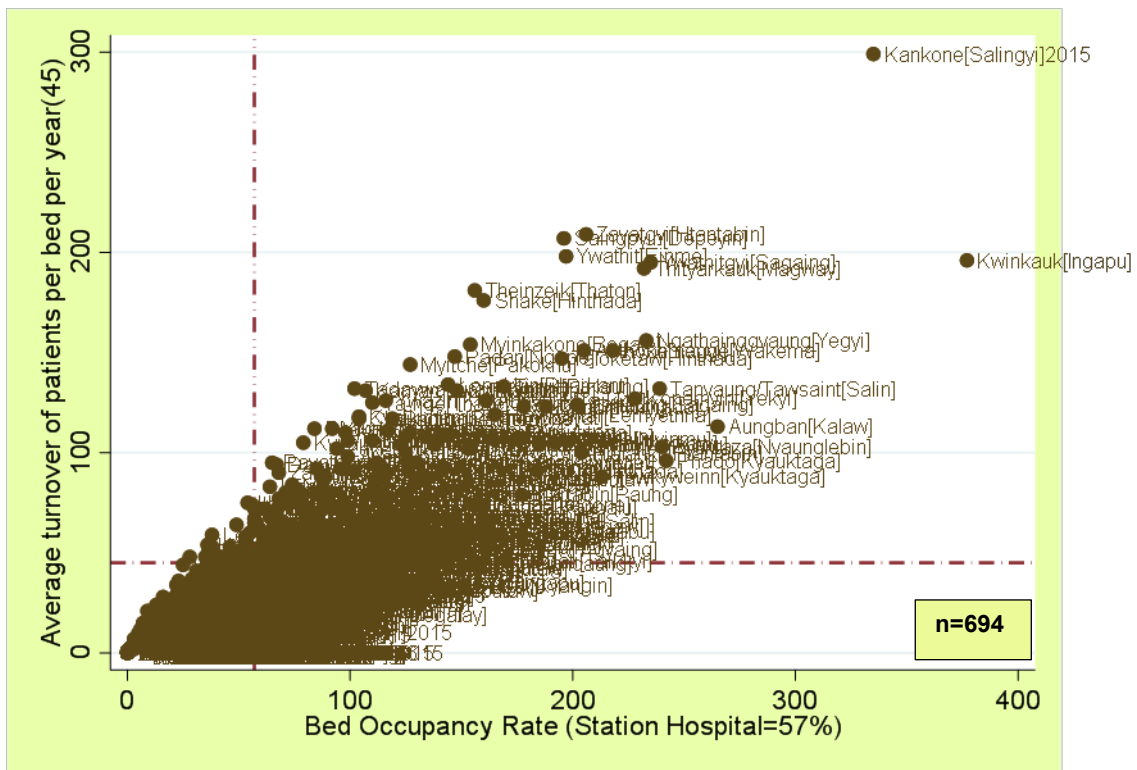


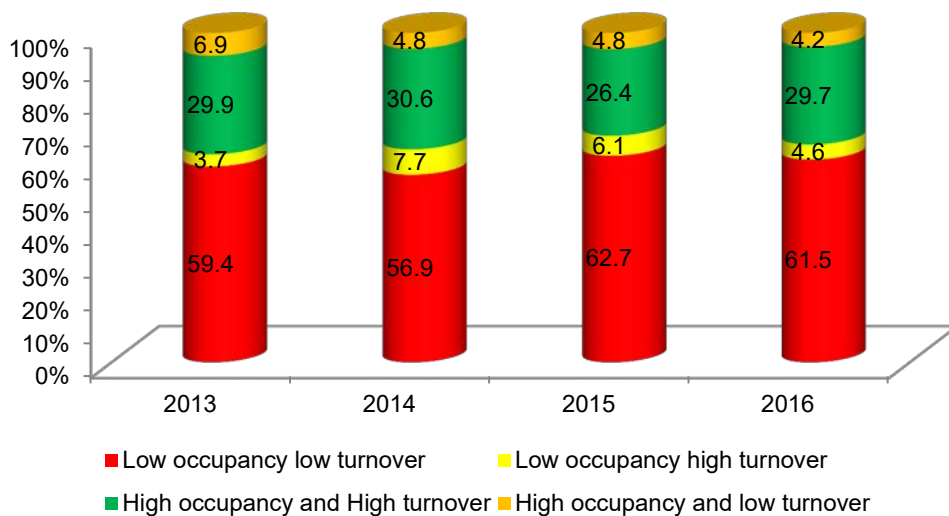
Figure (37) Pabón Lasso graph for Station Hospitals under MOHS (2016)



Note: Non-reporting hospitals were counted as hospitals with poor performance and located in left lower zone.
 n = total number of Station Hospitals under MOHS

According to assessment of 694 station hospitals under the Ministry of Health and Sports, 30 % of these hospitals (206 hospitals) were in the desirable zone. Kankone and kwinkauk station hospitals are found to have highest utilization.

Figure (38) Distribution of Performance of Station Hospital according to Pabón Lasso technique (2013-2016)



SURGICAL OPERATIONS, DELIVERIES, STILLBIRTHS AND ABORTIONS IN HOSPITALS

PART D

Surgical operations by type of anaesthesia, live births, still births and abortion are described in PART D.

Table (7) Number and Percent of Surgical Operations by Type of Hospitals (2014-2016)

Sr. No.	Type of Hospitals	Year	Surgical Operations								
			General Anaesthesia		Spinal Anaesthesia		Local Anaesthesia		Others		All Operations
			No.	%	No.	%	No.	%	No.	%	No.
1	Specialist Hospitals	2014	13050	20.5	17812	28.0	26600	41.8	6243	9.8	63705
		2015	15061	21.2	21463	30.2	27590	38.8	7016	9.9	71130
		2016	18565	21.9	26018	30.7	33578	39.6	6588	7.8	84749
2	General Hospitals with Specialist Services	2014	41612	21.5	95872	49.4	44398	22.9	12080	6.2	193962
		2015	42781	20.6	104225	50.1	46851	22.5	14029	6.7	207886
		2016	45603	19.6	118303	50.8	52840	22.7	16167	6.9	232913
3	150 Bedded Hospitals	2014	456	15.1	2128	70.6	373	12.4	59	2.0	3016
		2015	489	14.3	2149	63.0	595	17.5	176	5.2	3409
		2016	268	24.1	219	19.7	459	41.3	166	14.9	1112
4	100 Bedded Hospitals	2014	8641	20.5	23851	56.7	6678	15.9	2910	6.9	42080
		2015	6500	15.1	26230	61.0	7509	17.5	2729	6.4	42968
		2016	7237	17.3	25503	61.1	6110	14.6	2868	6.9	41718
5	50 Bedded Hospitals	2014	6859	22.2	10280	33.3	8761	28.4	4933	16.0	30833
		2015	8112	19.8	13656	33.3	13438	32.8	5824	14.2	41030
		2016	13497	17.7	27180	35.6	23889	31.2	11884	15.5	76450
6	25 Bedded Hospitals	2014	16400	19.2	23073	27.0	34596	40.6	11239	13.2	85308
		2015	19360	19.7	27257	27.7	39818	40.5	11978	12.2	98413
		2016	12758	17.7	16947	23.5	34070	47.2	8451	11.7	72226
7	16 Bedded Hospitals	2014	6	1.6	0	0.0	378	98.4	0	0.0	384
		2015	0	0.0	0	0.0	1006	99.7	3	0.3	1009
		2016	249	21.0	96	8.1	743	62.6	98	8.3	1186
8	Station Hospitals	2014	15407	18.1	18730	22.1	42225	49.7	8562	10.1	84924
		2015	23647	19.8	22477	18.8	62183	52.0	11287	9.4	119594
		2016	21449	15.9	29214	21.6	71909	53.2	12684	9.4	135256
UNION		2014	102431	20.3	191746	38.0	164009	32.5	46026	9.1	504212
		2015	115950	19.8	217457	37.1	198990	34.0	53042	9.1	585439
		2016	119626	18.5	243480	37.7	223598	34.6	58906	9.1	645610

Table (8) Number and Percent of Surgical Operations by Regions and States (2014-2016)

Regions and States	Year	Surgical Operations								
		General Anaesthesia		Spinal Anaesthesia		Local Anaesthesia		Others		All operations
		No.	%	No.	%	No.	%	No.	%	Number
Kachin State	2014	2290	13.2	5960	34.4	6193	35.8	2871	16.6	17314
	2015	2552	13.1	6439	33.0	8176	41.9	2335	12.0	19502
	2016	3079	15.5	6601	33.2	7862	39.6	2318	11.7	19860
Kayah State	2014	691	18.1	1761	46.2	952	25.0	407	10.7	3811
	2015	765	15.0	2179	42.7	1569	30.8	588	11.5	5101
	2016	870	15.8	2278	41.3	1718	31.2	648	11.8	5514
Kayin State	2014	2033	16.9	3483	28.9	5471	45.5	1050	8.7	12037
	2015	2259	15.9	3859	27.1	7173	50.5	925	6.5	14216
	2016	2495	15.8	4320	27.3	8034	50.8	966	6.1	15815
Chin State	2014	845	24.0	1427	40.6	987	28.1	257	7.3	3516
	2015	1036	21.7	2518	52.8	850	17.8	363	7.6	4767
	2016	1347	23.8	2500	44.1	1440	25.4	378	6.7	5665
Sagaing Region	2014	12006	23.5	19230	37.6	15337	30.0	4536	8.9	51109
	2015	13380	23.2	19999	34.6	19291	33.4	5117	8.9	57787
	2016	11426	19.4	22914	38.8	18547	31.4	6104	10.3	58991
Tanintharyi Region	2014	4658	33.1	4575	32.5	4141	29.4	707	5.0	14081
	2015	3418	22.4	5165	33.8	6027	39.4	672	4.4	15282
	2016	2934	19.1	5662	36.9	6082	39.6	684	4.5	15362
Bago Region	2014	8120	19.2	15964	37.7	15154	35.8	3059	7.2	42297
	2015	9666	19.1	18733	37.0	18840	37.2	3440	6.8	50679
	2016	9524	17.6	21480	39.6	19375	35.7	3853	7.1	54232
Magway Region	2014	6969	19.9	15748	44.9	10134	28.9	2231	6.4	35082
	2015	8618	19.4	18507	41.7	14071	31.7	3187	7.2	44383
	2016	7202	14.7	21698	44.3	16576	33.8	3511	7.2	48987
Mandalay Region	2014	19474	22.9	29920	35.2	26531	31.2	9001	10.6	84926
	2015	21968	24.0	34528	37.7	24989	27.3	10077	11.0	91562
	2016	24117	24.3	36227	36.4	27716	27.9	11351	11.4	99411
Mon State	2014	2355	15.0	5773	36.7	4737	30.1	2860	18.2	15725
	2015	2946	14.7	6764	33.7	6690	33.3	3674	18.3	20074
	2016	2963	14.8	6425	32.0	7617	37.9	3077	15.3	20082
Rakhine State	2014	2948	24.0	4839	39.4	3631	29.6	860	7.0	12278
	2015	3062	17.7	6569	37.9	6270	36.2	1432	8.3	17333
	2016	2877	15.6	7196	38.9	6692	36.2	1728	9.3	18493
Yangon Region	2014	22269	19.9	41071	36.6	39193	35.0	9568	8.5	112101
	2015	24676	19.4	46592	36.6	44710	35.1	11272	8.9	127250
	2016	28387	19.3	54008	36.7	52829	35.9	11922	8.1	147146
Shan State (East)	2014	643	10.1	1701	26.7	3210	50.4	816	12.8	6370
	2015	516	7.8	2134	32.1	3172	47.7	824	12.4	6646
	2016	456	6.8	2145	32.2	3442	51.6	623	9.3	6666
Shan State (North)	2014	2311	14.9	6213	40.0	5323	34.3	1669	10.8	15516
	2015	2948	16.4	6194	34.5	6988	38.9	1840	10.2	17970
	2016	3278	14.9	7537	34.3	8720	39.7	2410	11.0	21945
Shan State (South)	2014	4435	22.1	6040	30.1	6505	32.4	3107	15.5	20087
	2015	5472	22.7	7312	30.3	7991	33.1	3376	14.0	24151
	2016	5562	20.1	7546	27.2	10219	36.9	4366	15.8	27693
Ayeyawady Region	2014	6899	16.7	19405	47.1	12543	30.4	2392	5.8	41239
	2015	8324	16.4	23763	46.9	15051	29.7	3497	6.9	50635
	2016	9170	15.4	27901	46.9	18306	30.8	4118	6.9	59495
Nay Pyi Taw	2014	3485	20.8	8636	51.6	3967	23.7	635	3.8	16723
	2015	4344	24.0	6202	34.3	7132	39.4	423	2.3	18101
	2016	3939	19.4	7042	34.8	8423	41.6	849	4.2	20253
UNION	2014	102431	20.3	191746	38.0	164009	32.5	46026	9.1	504212
	2015	115950	19.8	217457	37.1	198990	34.0	53042	9.1	585439
	2016	119626	18.5	243480	37.7	223598	34.6	58906	9.1	645610

Figure (39) Total Number of Surgical Operation performed at Public Hospitals by Regions and States (2016)

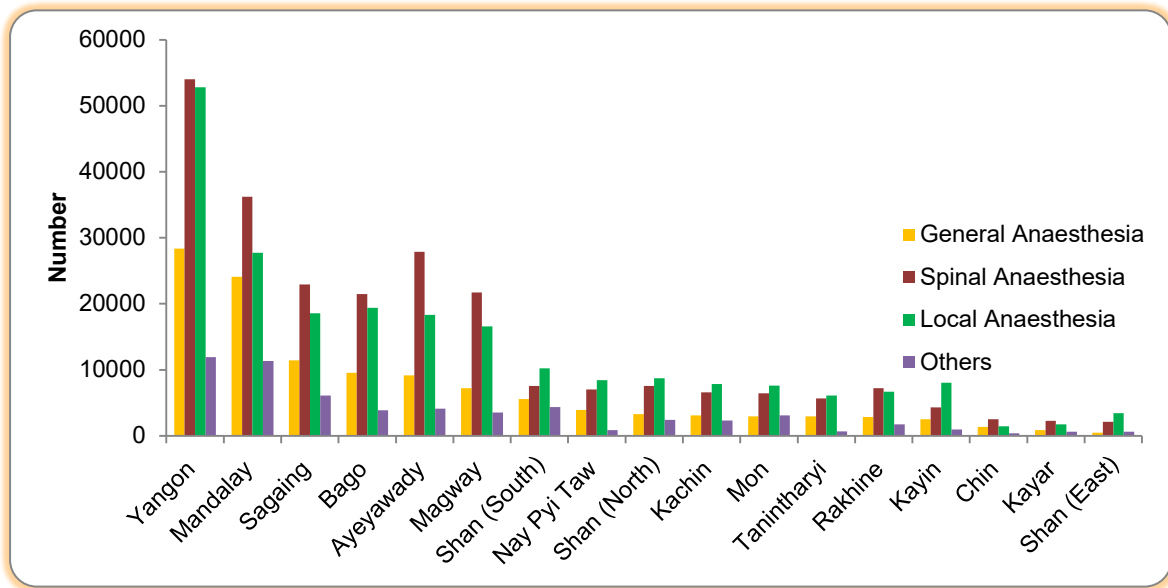
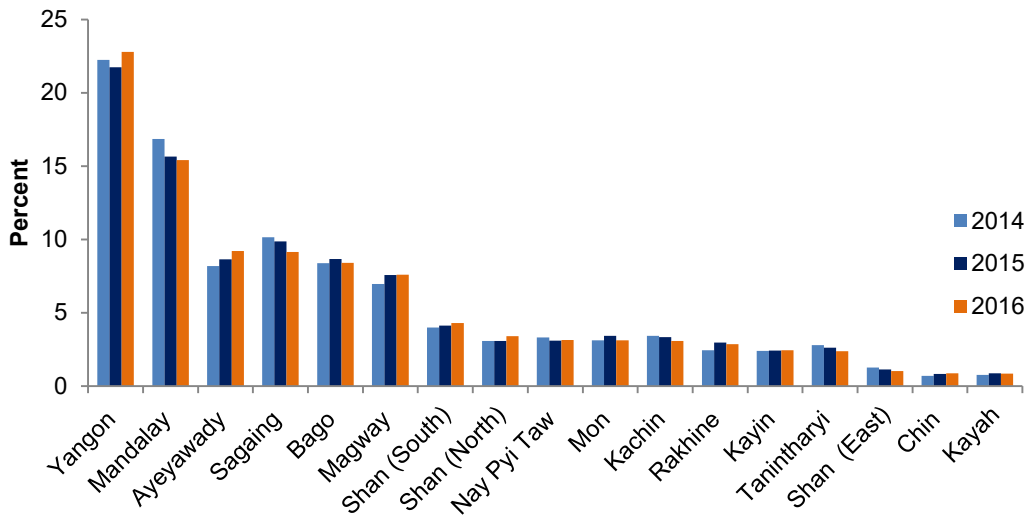
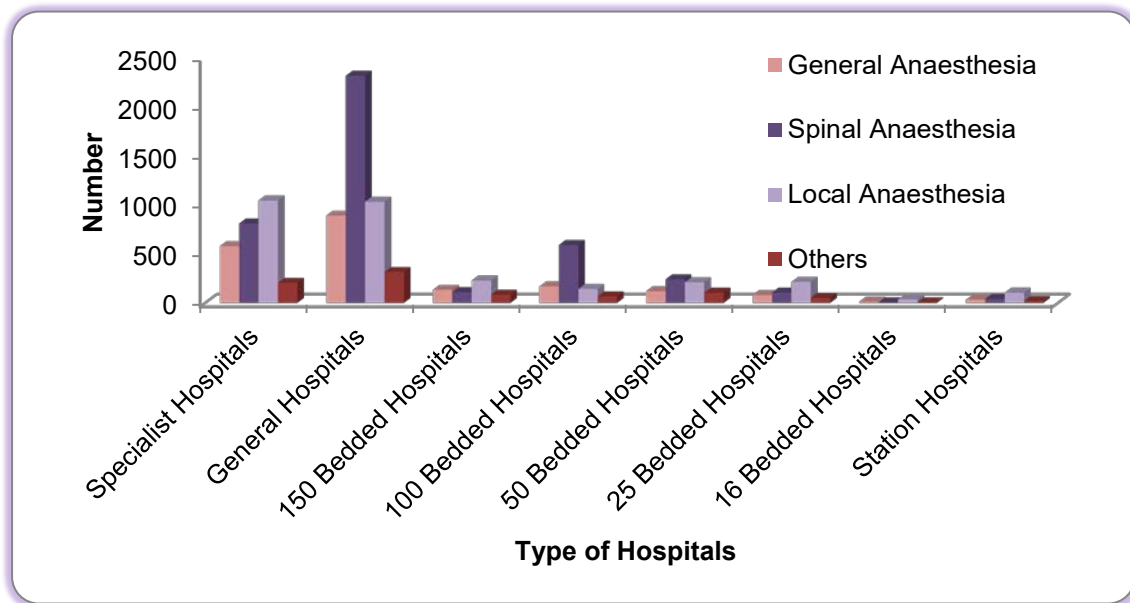


Figure (40) Percent Distribution of Surgical operation Performance by Region and State (2014-2016)



Surgical operations performed under different types of anaesthesia were illustrated by Region and State in the above figures. Public hospitals in Yangon Region were found to have highest level of performance regarding surgical operations which accounted for 22.8% of all operations performed at public hospitals. The second highest was Mandalay Region. Another four regions: Ayeyawady, Sagaing, Bago, and Magway had performed more than 5% of total surgical operations. In Shan (East), Chin and Kayah States, less than 1% of total surgical operations were performed.

Figure (41) Average Number of Surgical Operation in Each Type of Hospitals (2016)



Note: Specialist hospitals which are not performing any surgical operation (eg, mental hospitals) are not excluded from the list of hospitals. Average number of operation by type of anaesthesia in specialist hospitals may be affected by type of specialty.

Figure (42) Percent Distribution of Surgical operation Performance by Type of Hospitals (2014-2016)

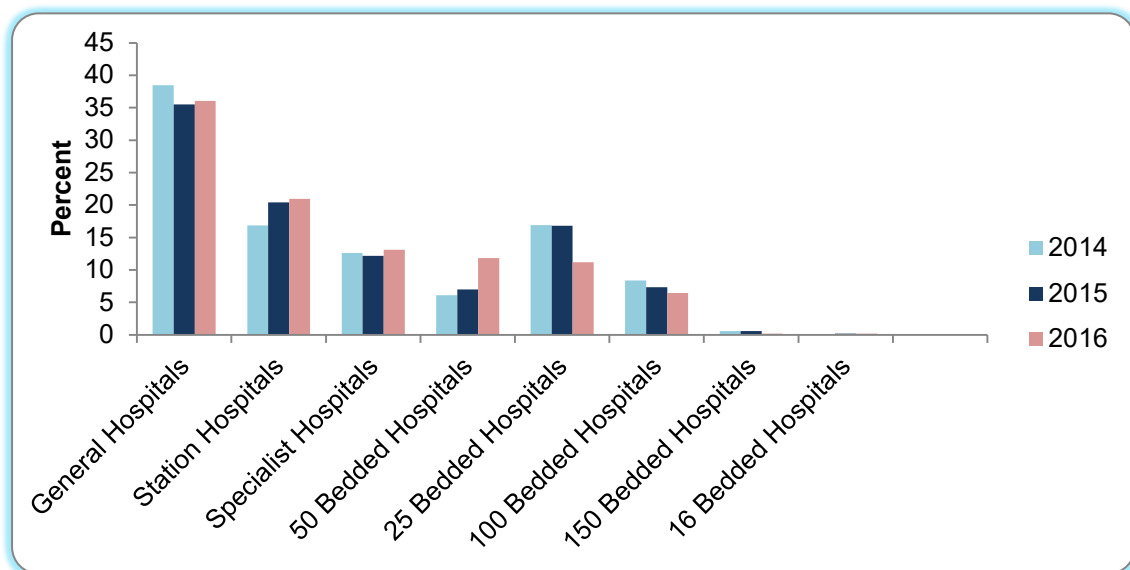


Figure (41 and 42) provides information on surgical operation performance at each type of public hospitals. Various types of surgical operation are mostly performed at general hospitals and surgical operations performed under spinal anaesthesia are the highest.

Figure (43) Distributions of Deliveries by Regions and States (2016)

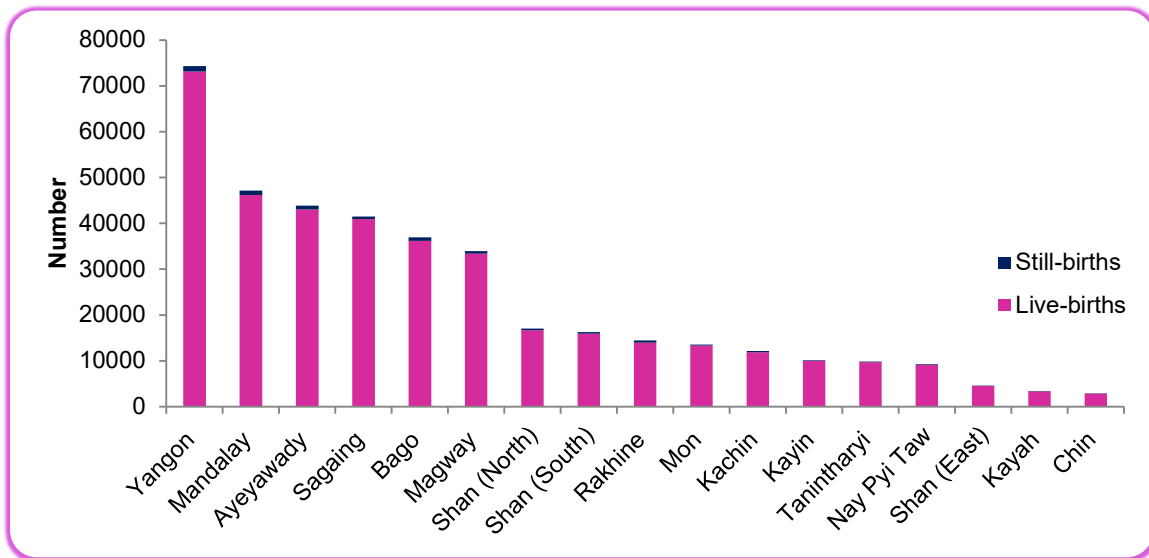
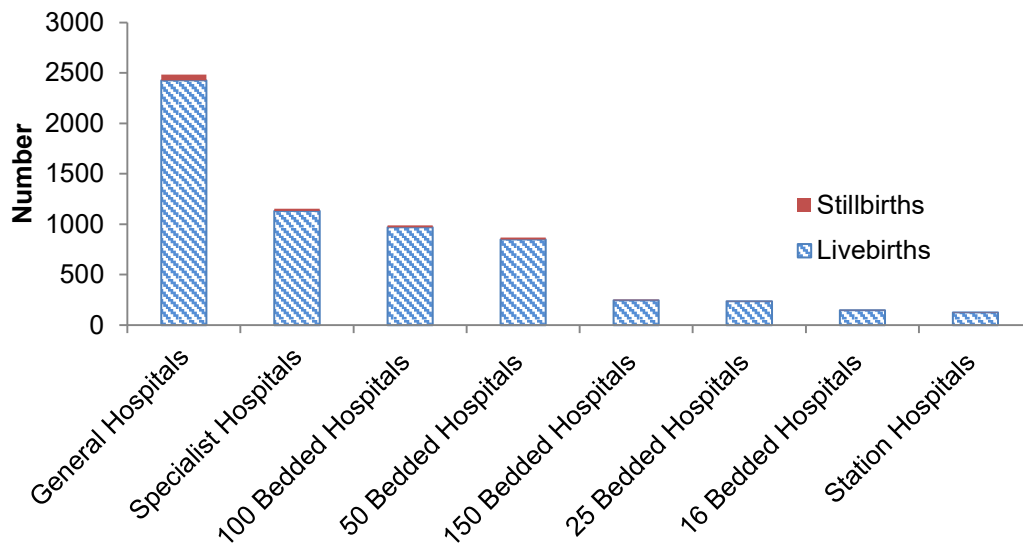


Figure (43) shows utilization of hospital services for deliveries. It was found that hospital deliveries were the highest in Yangon, followed by Mandalay, Ayeyawady and Sagaing. Kayah and Chin had the lowest hospital deliveries.

Figure (44) Average No. of Live births and Stillbirths by type of Hospitals (2016)



Note: The average number of deliveries in specialist hospitals may be affected by its type of specialty.

Distribution of average number of live births and stillbirths in each type of hospitals during 2016 was described in Figure (44). Average numbers of live births and stillbirths in general hospital are the highest.

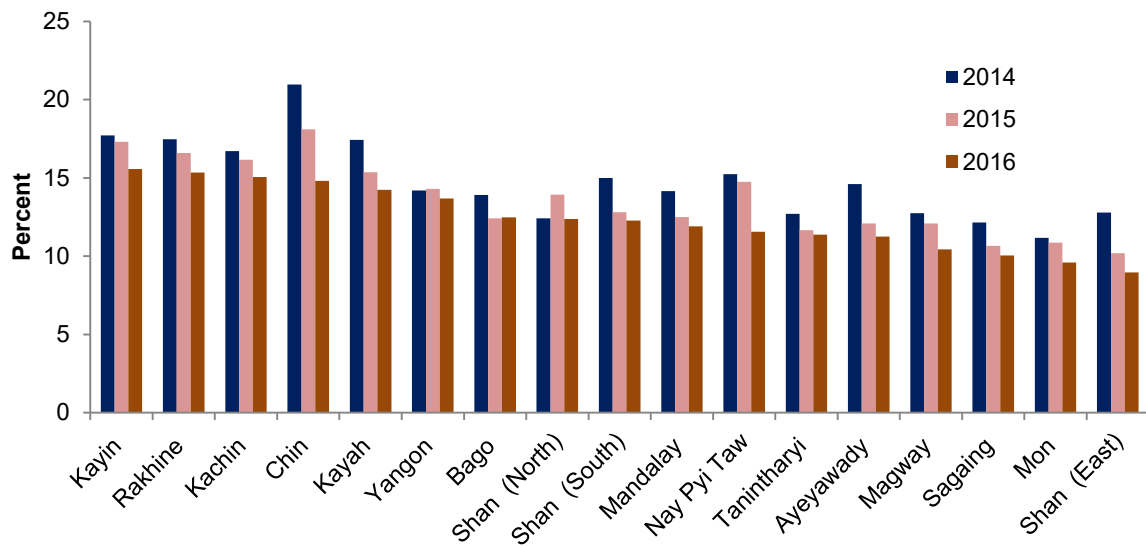
Table (9) Numbers and Percent of Deliveries, Live births, Stillbirths and Abortions by Types of Hospital (2014-2016)

Sr. No.	Types of Hospital	Year	Deliveries	Live-births	Livebirths as percent of deliveries	Still-births	Stillbirths as percent of deliveries	Abortion	Abortion Rate
1	Specialist Hospitals	2014	23705	23166	97.7	539	2.3	3713	13.5
		2015	29133	28574	98.0	559	1.9	4079	12.3
		2016	36987	36253	98.0	734	2.0	4841	11.6
2	General Hospitals with Specialist Services	2014	81262	79072	97.3	2190	2.7	11496	12.4
		2015	102023	99557	98.0	2466	2.4	14304	12.3
		2016	119244	116530	98.0	2714	2.3	15389	11.4
3	150 Bedded Hospitals	2014	2493	2446	98.1	47	1.9	455	15.4
		2015	3074	3018	98.0	56	1.8	543	15.0
		2016	761	740	97.0	21	2.8	101	11.7
4	100 Bedded Hospitals	2014	33851	32925	97.3	926	2.7	5032	12.9
		2015	37626	36784	98.0	842	2.2	5290	12.3
		2016	39598	38793	98.0	805	2.0	5204	11.6
5	50 Bedded Hospitals	2014	25526	24853	97.4	673	2.6	4184	14.1
		2015	31066	30363	98.0	703	2.3	4654	13.0
		2016	59894	58738	98.0	1156	1.9	7993	11.8
6	25 Bedded Hospitals	2014	61252	59813	97.7	1439	2.3	10323	14.4
		2015	71281	69848	98.0	1433	2.0	10745	13.1
		2016	48884	48251	99.0	633	1.3	7261	12.9
7	16 Bedded Hospitals	2014	256	253	98.8	3	1.2	185	42.0
		2015	869	868	100.0	1	0.1	421	32.6
		2016	2802	2800	100.0	2	0.1	436	13.5
8	Station Hospitals	2014	54114	52934	97.8	1180	2.2	10727	16.5
		2015	74109	72975	98.0	1134	1.5	12335	14.3
		2016	83033	81935	99.0	1098	1.3	13080	13.6
UNION		2014	282459	275462	97.5	6997	2.5	46115	14.0
		2015	349181	341987	98.0	7194	2.1	52371	13.0
		2016	391203	384040	98.0	7163	1.8	54305	12.2

Table (10) Number and Percent of Deliveries, Live births, Stillbirths and Abortions by Regions & States (2014-2016)

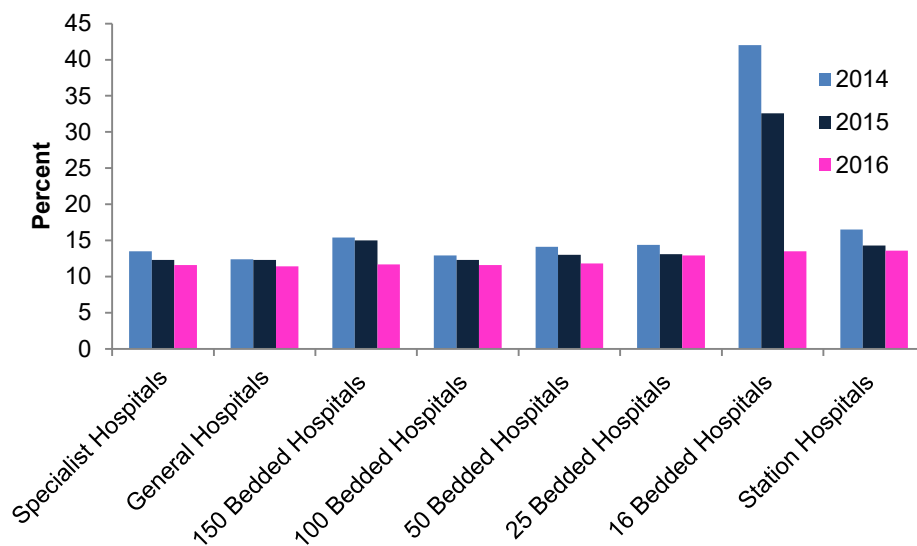
Sr. No.	Regions and States	Year	Deliveries	Live births	%of deliveries	Still-births	%of deliveries	Abortions	Abortion Rate
1	Kachin State	2014	8581	8319	96.9	262	3.1	1721	16.7
		2015	10981	10747	97.9	234	2.1	2116	16.2
		2016	12120	11892	98.1	228	1.9	2147	15.0
2	Kayah State	2014	2122	2075	97.8	47	2.2	448	17.4
		2015	3101	3027	97.6	74	2.4	563	15.4
		2016	3379	3331	98.6	48	1.4	561	14.2
3	Kayin State	2014	7070	6929	98.0	141	2.0	1522	17.7
		2015	8744	8575	98.1	169	1.9	1829	17.3
		2016	10142	9971	98.3	171	1.7	1871	15.6
4	Chin State	2014	1696	1625	95.8	71	4.2	450	21.0
		2015	2683	2620	97.7	63	2.3	593	18.1
		2016	2941	2868	97.5	73	2.5	511	14.8
5	Sagaing Region	2014	30939	30222	97.7	717	2.3	4277	12.1
		2015	38158	37412	98.0	746	2.0	4548	10.6
		2016	41498	40911	98.6	587	1.4	4629	10.0
6	Tanintharyi Region	2014	7652	7492	97.9	160	2.1	1113	12.7
		2015	9464	9237	97.6	227	2.4	1248	11.7
		2016	9855	9670	98.1	185	1.9	1264	11.4
7	Bago Region	2014	27148	26468	97.5	680	2.5	4383	13.9
		2015	33388	32730	98.0	658	2.0	4735	12.4
		2016	36967	36184	97.9	783	2.1	5270	12.5
8	Magway Region	2014	20076	19520	97.2	556	2.8	2932	12.7
		2015	28885	28305	98.0	580	2.0	3974	12.1
		2016	33946	33384	98.3	562	1.7	3953	10.4
9	Mandalay Region	2014	33987	33114	97.4	873	2.6	5601	14.1
		2015	42051	41189	98.0	862	2.0	6004	12.5
		2016	47115	46193	98.0	922	2.0	6372	11.9
10	Mon State	2014	11568	11318	97.8	250	2.2	1454	11.2
		2015	12885	12645	98.1	240	1.9	1569	10.9
		2016	13535	13300	98.3	235	1.7	1437	9.6
11	Rakhine State	2014	9557	9125	95.5	432	4.5	2024	17.5
		2015	13334	12831	96.2	503	3.8	2653	16.6
		2016	14416	13950	96.8	466	3.2	2612	15.3
12	Yangon Region	2014	54750	53784	98.2	966	1.8	9057	14.2
		2015	65964	64861	98.3	1103	1.7	11004	14.3
		2016	74332	73113	98.4	1219	1.6	11779	13.7
13	Shan State (East)	2014	4164	4045	97.1	119	2.9	610	12.8
		2015	4620	4516	97.7	104	2.3	524	10.2
		2016	4577	4504	98.4	73	1.6	451	9.0
14	Shan State (North)	2014	13314	13000	97.6	314	2.4	1887	12.4
		2015	13459	13164	97.8	295	2.2	2178	13.9
		2016	17013	16679	98.0	334	2.0	2403	12.4
15	Shan State (South)	2014	11126	10797	97.0	329	3.0	1961	15.0
		2015	14443	14145	97.9	298	2.1	2120	12.8
		2016	16231	15921	98.1	310	1.9	2272	12.3
16	Ayeyawady Region	2014	32448	31492	97.1	956	2.9	5550	14.6
		2015	39943	39063	97.8	880	2.2	5488	12.1
		2016	43849	43029	98.1	820	1.9	5560	11.3
17	Nay Pyi Taw	2014	6261	6137	98.0	124	2.0	1125	15.2
		2015	7078	6920	97.8	158	2.2	1225	14.8
		2016	9287	9140	98.4	147	1.6	1213	11.6
UNION	UNION	2014	282459	275462	97.5	6997	2.5	46115	14.0
		2015	349181	341987	97.9	7194	2.1	52371	13.0
		2016	391203	384040	98.2	7163	1.8	54305	12.2

Figure (45) Abortion Rate by Region and State (2014-2016)



Abortion rate as percentage of total deliveries and abortion cases during 2014-2016 are described in Figure (45). Chin State has the highest abortion rate during 2014 and 2015. In 2016, abortion rate is higher in Kayin, Rakhine, Kachin and Chin State.

Figure (46) Abortion Rate by Type of Hospitals (2014-2016)



As shown in Figure (46), abortion cases are highest among hospital delivery cases at 16 bedded hospitals.

SECTION II

MORBIDITY AND MORTALITY STATISTICS

(A) INPATIENT MORBIDITY AND MORTALITY PATTERNS OF HOSPITALS

This section includes morbidity and mortality pattern among all inpatients in public hospitals during 2014-16. In some graphical presentation, causes of morbidity and mortality among all inpatients were described chapter-wise as classified in ICD-10 (International Statistical classification of Disease and Related Health Problems-Version 10). All data were compiled and analyzed with single condition morbidity analysis according to Rules and Guidelines for morbidity and mortality coding (ICD-10, WHO).

Figure (47-1) Proportional Morbidity of all Cases of Hospitalization (2014)

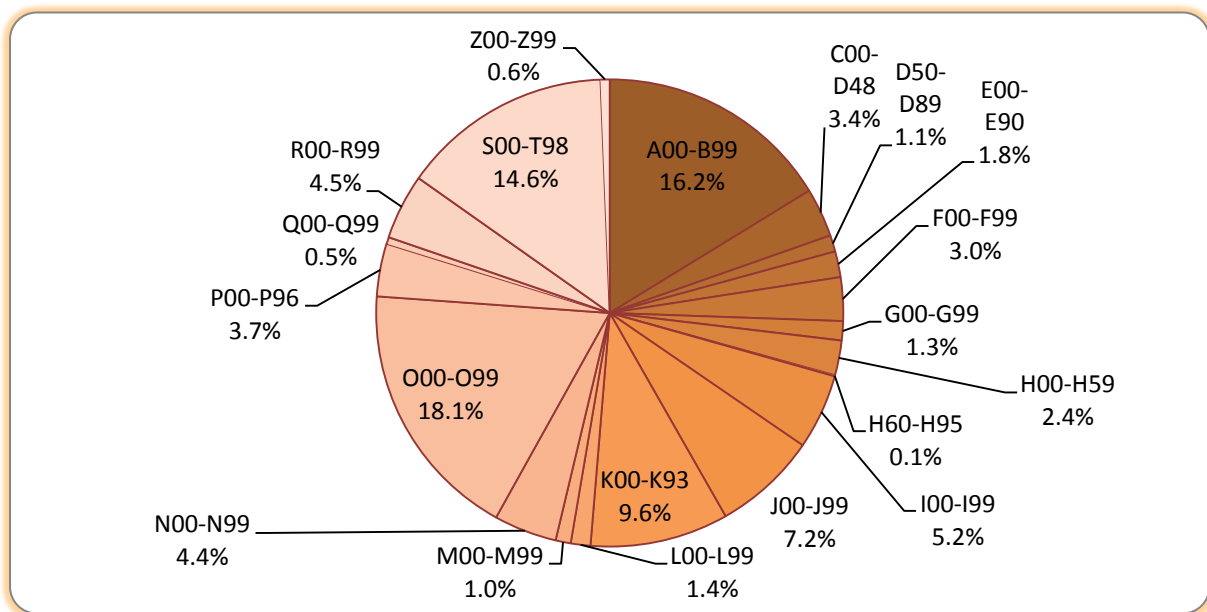


Figure (47-2) Proportional Morbidity of all Cases of Hospitalization (2015)

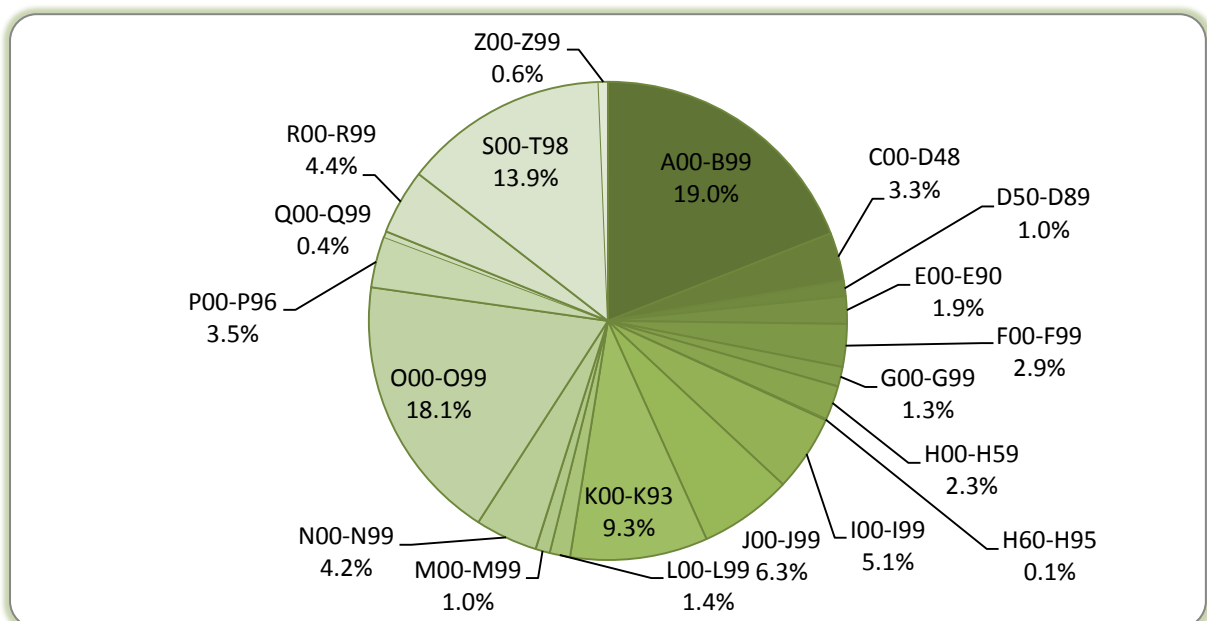
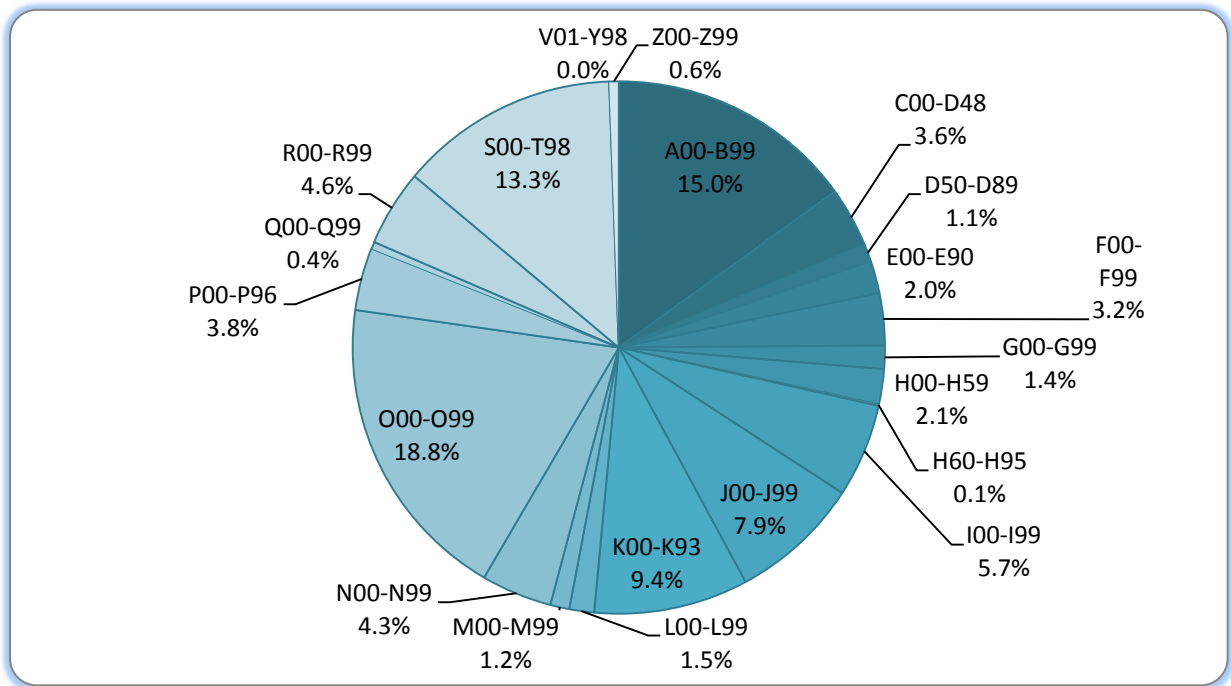


Figure (47-3) Proportional Morbidity of all Cases of Hospitalization (2016)



Note for Figures (47-1 to 47-3):

1. All morbidity data are grouped by Chapters classified as in ICD-10 e.g, A00-B99 is 'Certain infectious and parasitic diseases'. All description for all chapters are shown in Annex 4
2. Because of resource limitation, the codes for types of delivery are taken as main condition and included under the group (O00- O99).

Causes of hospitalization for all inpatients are illustrated in Figure (47-1) to (47-3). Certain infectious and parasitic diseases (A00-B99), conditions relating to pregnancy, child births and puerperium (O00 to O99), injuries, poisoning and certain other consequences of external causes(S00-T98), are found as leading causes of hospitalization.

Estimated proportions of non-communicable diseases among all hospitalized patients during 2014-16 are described in Figure (48-1) to (48-3).

Figure (48-1) Proportional morbidity and estimated proportion of Non-Communicable Diseases (2014)

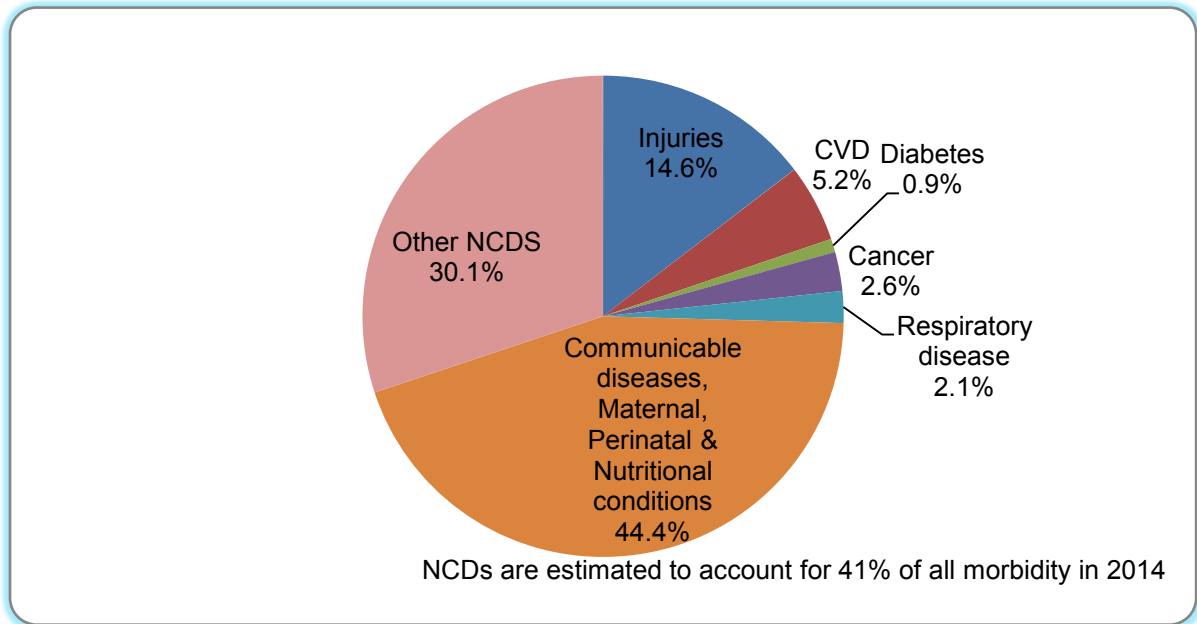


Figure (48-2) Proportional morbidity and estimated proportion of Non-Communicable Diseases (2015)

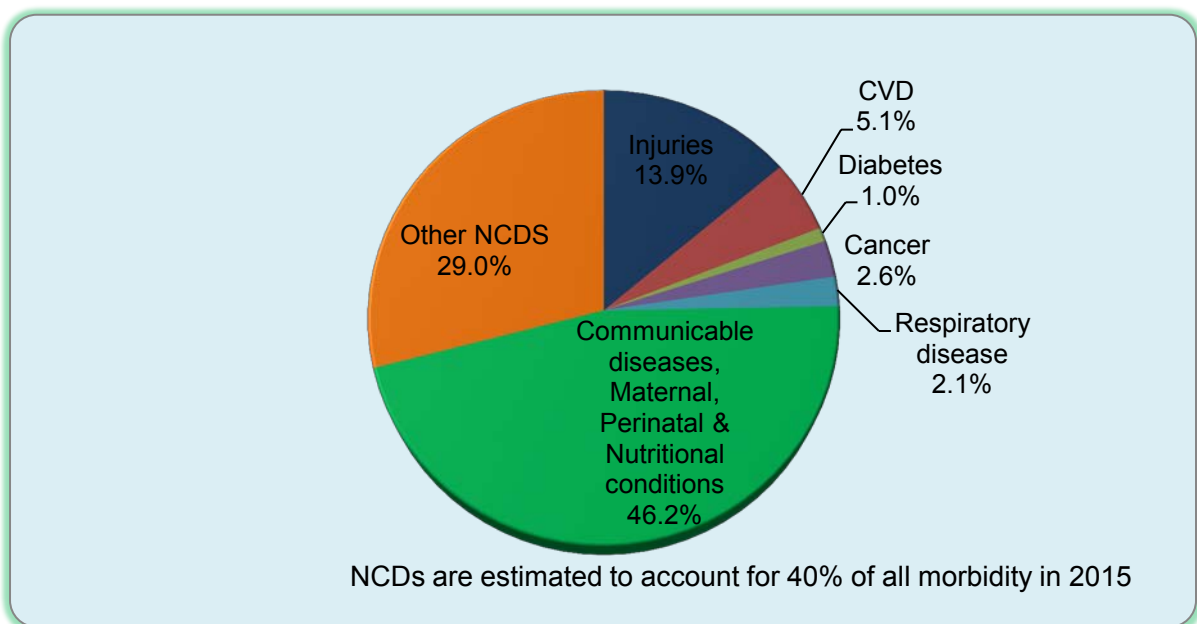


Figure (48-3) Proportional morbidity and estimated proportion of Non-Communicable Diseases (2016)

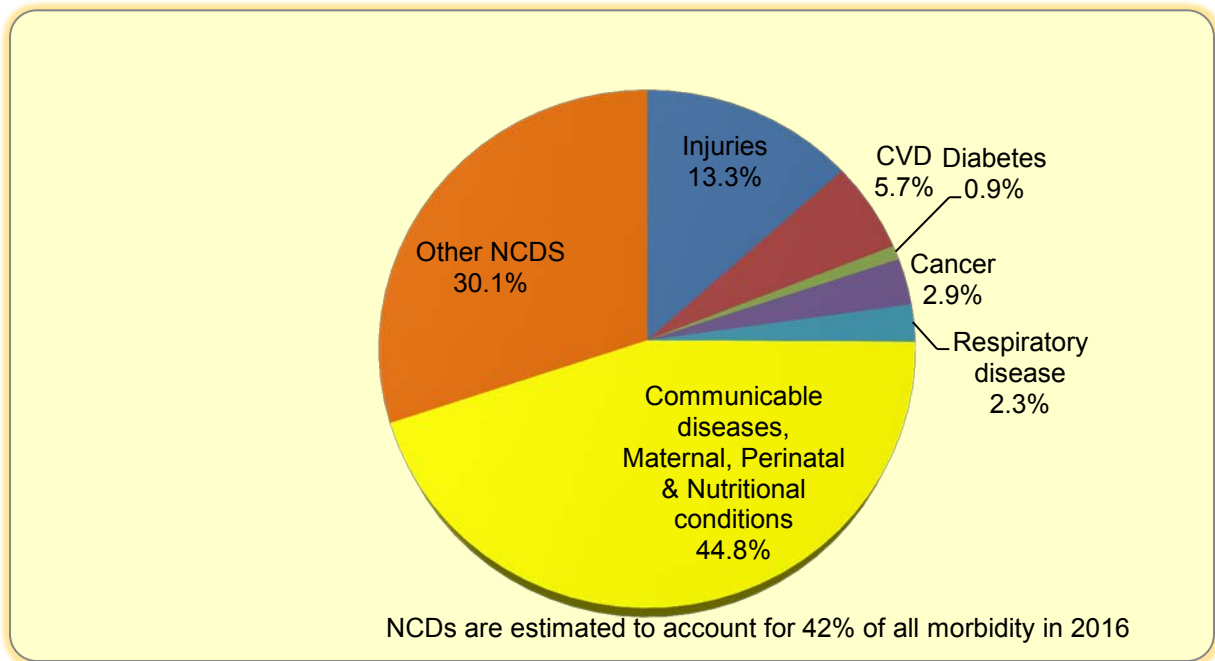
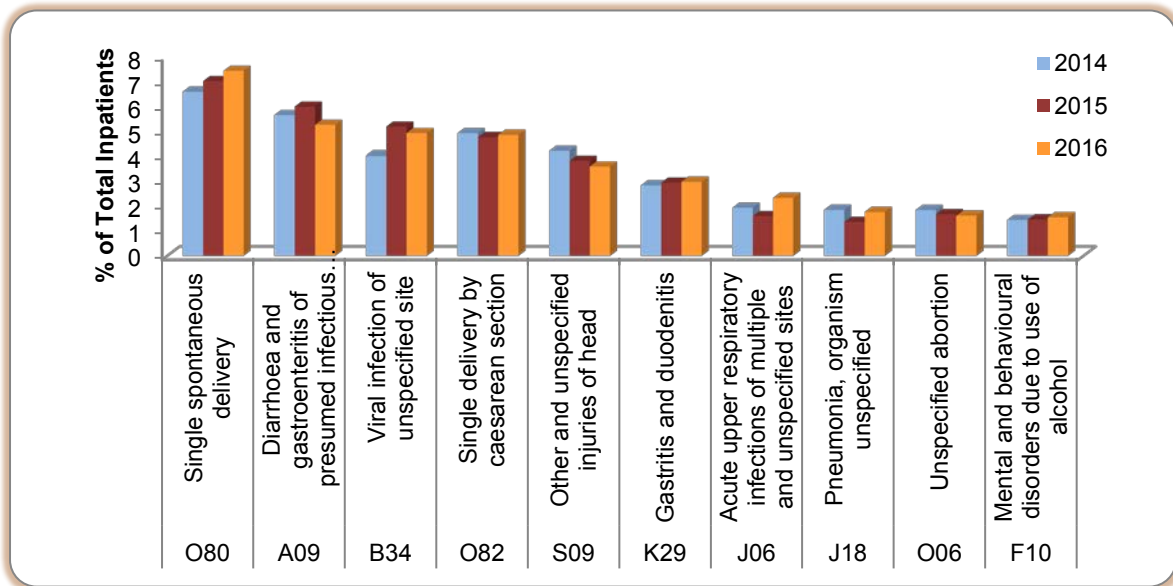


Figure (49) Proportion of Leading causes of Hospitalization among all inpatients (2014-2016)



Ten leading causes of hospitalization during 2016 are described in percentage of total inpatients compared with those in 2014 and 2015. Leading causes of hospitalization are also stated in Table (11-1 to 11-3). Diarrhoea and gastroenteritis of presumed infectious infections and viral infection of unspecified site are leading communicable diseases among hospitalized cases.

Proportional mortality and the estimated proportion of Non-communicable diseases among all cases of mortality during 2014-2016 are described in Figure (50-1) and (50-3). Infectious and parasitic diseases (A00-B99) was the highest proportion of all cases of mortality during 2014 and 2015 but it is the second highest following diseases of the circulatory system (I00-I99) in 2016.

Figure (50-1) Proportional Mortality among all inpatient deaths (2014)

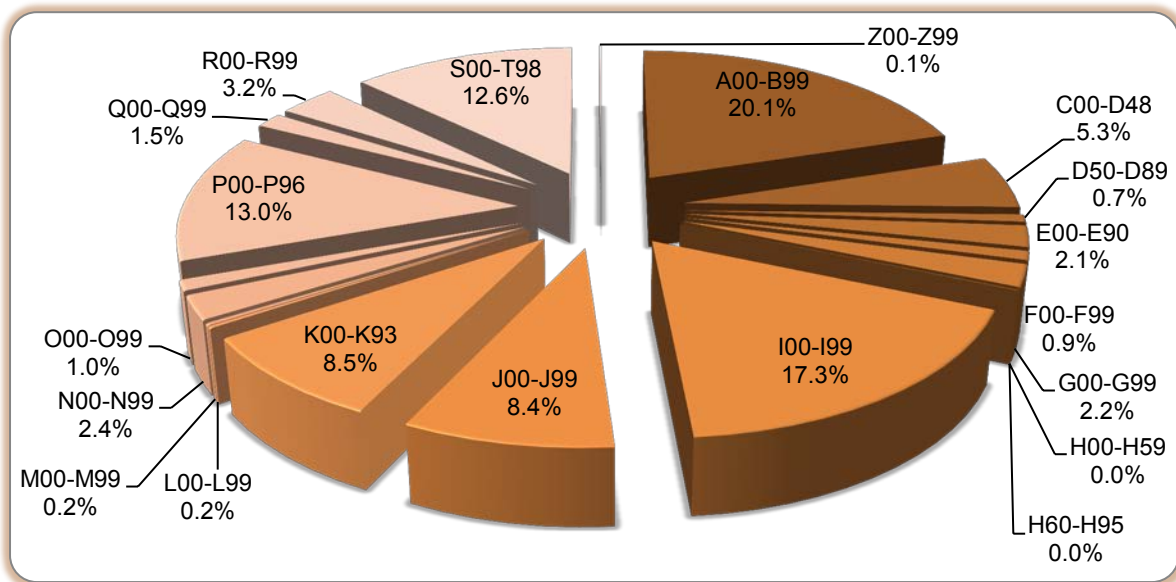


Figure (50-2) Proportional Mortality among all inpatient deaths (2015)

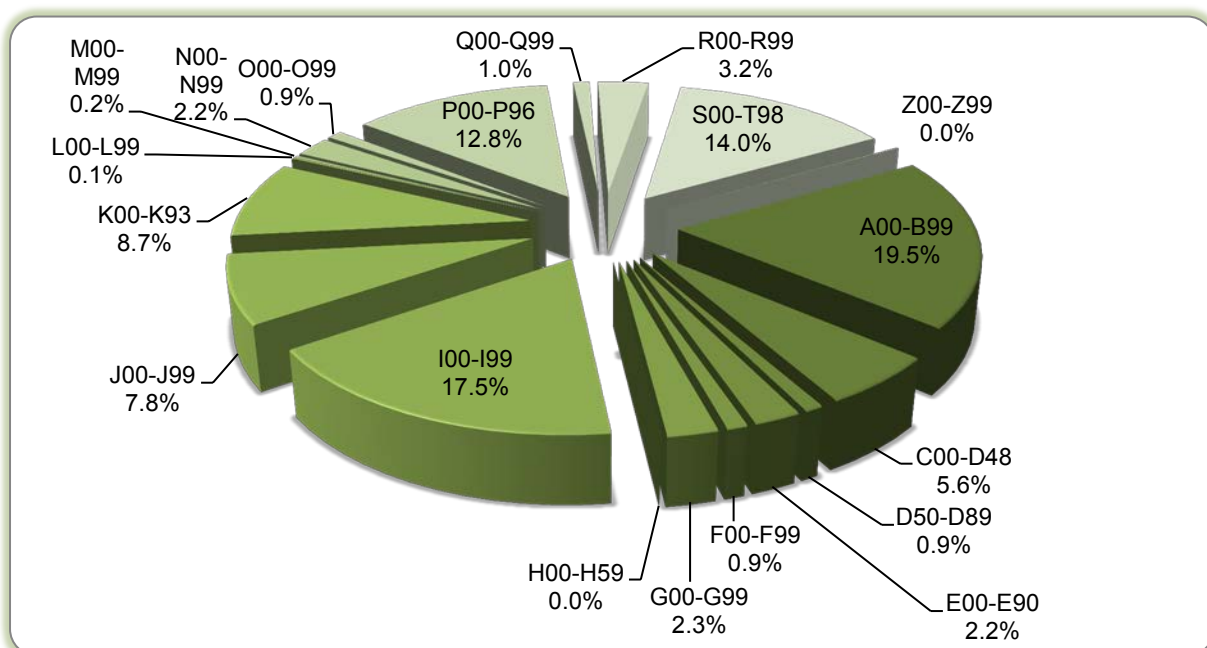
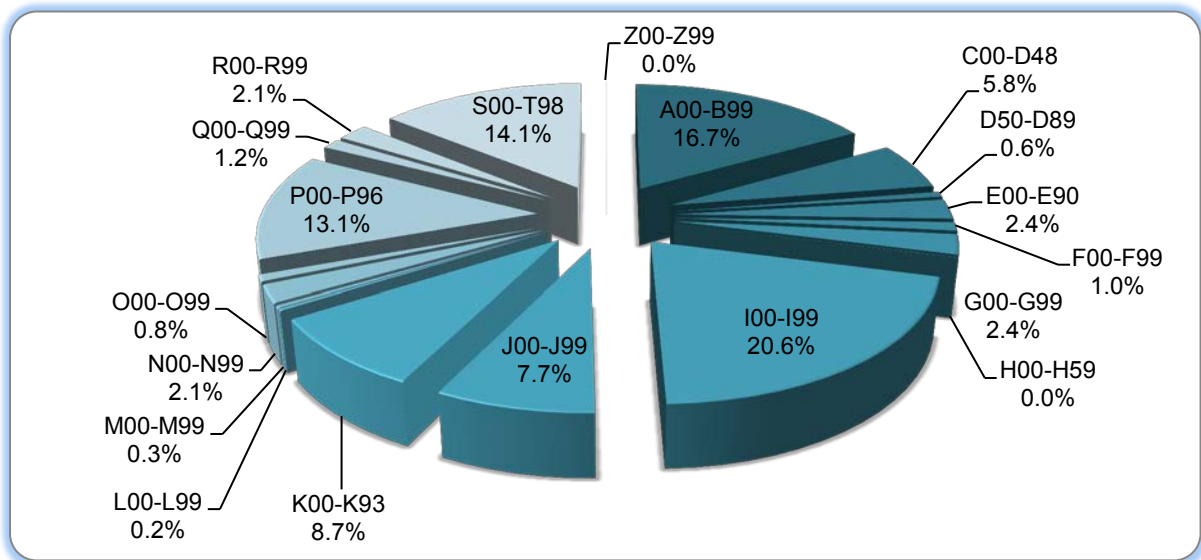


Figure (50-3) Proportional Mortality among all inpatient deaths (2016)



Note for Figure (50-1 to 50-3): All mortality are grouped by Chapters classified as in ICD-10 e.g. A00-B99 is 'Certain infectious and parasitic diseases'. All description for all chapters are shown in Annex 4.

Figure (51-1) Proportional mortality and estimated proportion of Non-communicable diseases (2014)

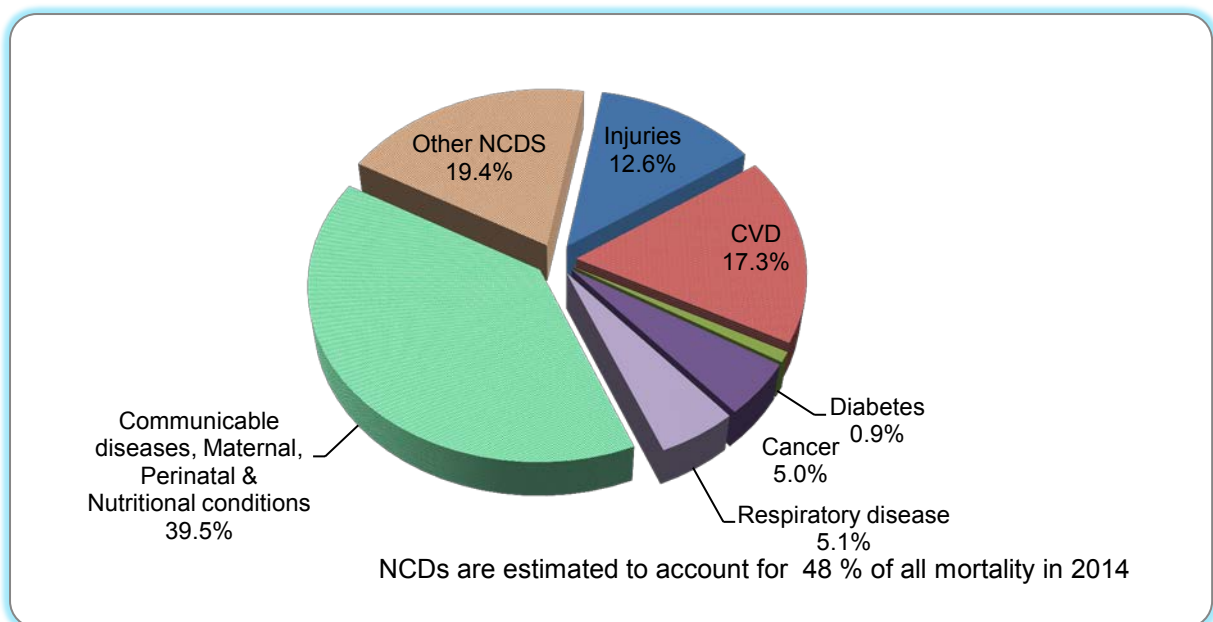


Figure (51-2) Proportional mortality and estimated proportion of Non-communicable diseases (2015)

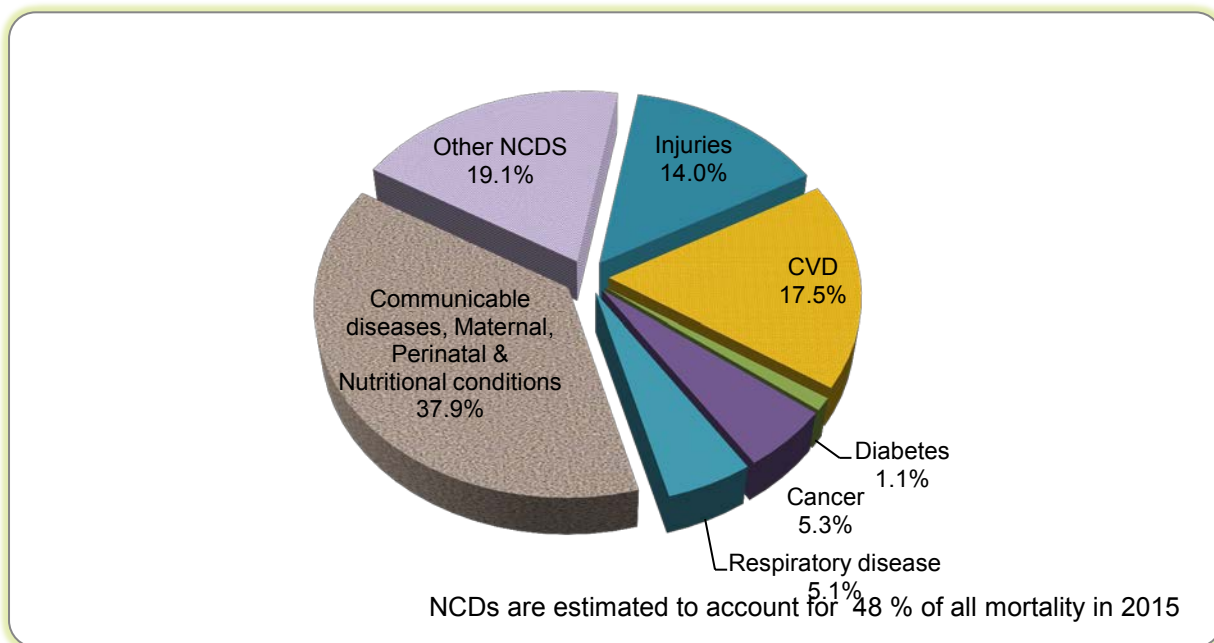


Figure (51-3) Proportional mortality and estimated proportion of Non-communicable diseases (2016)

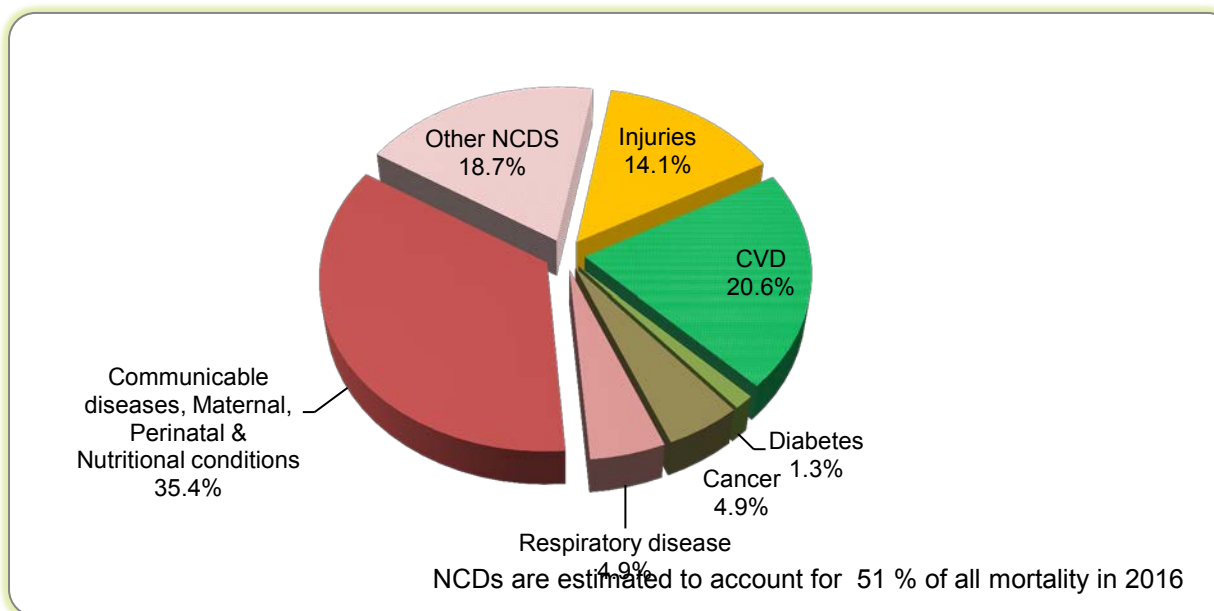
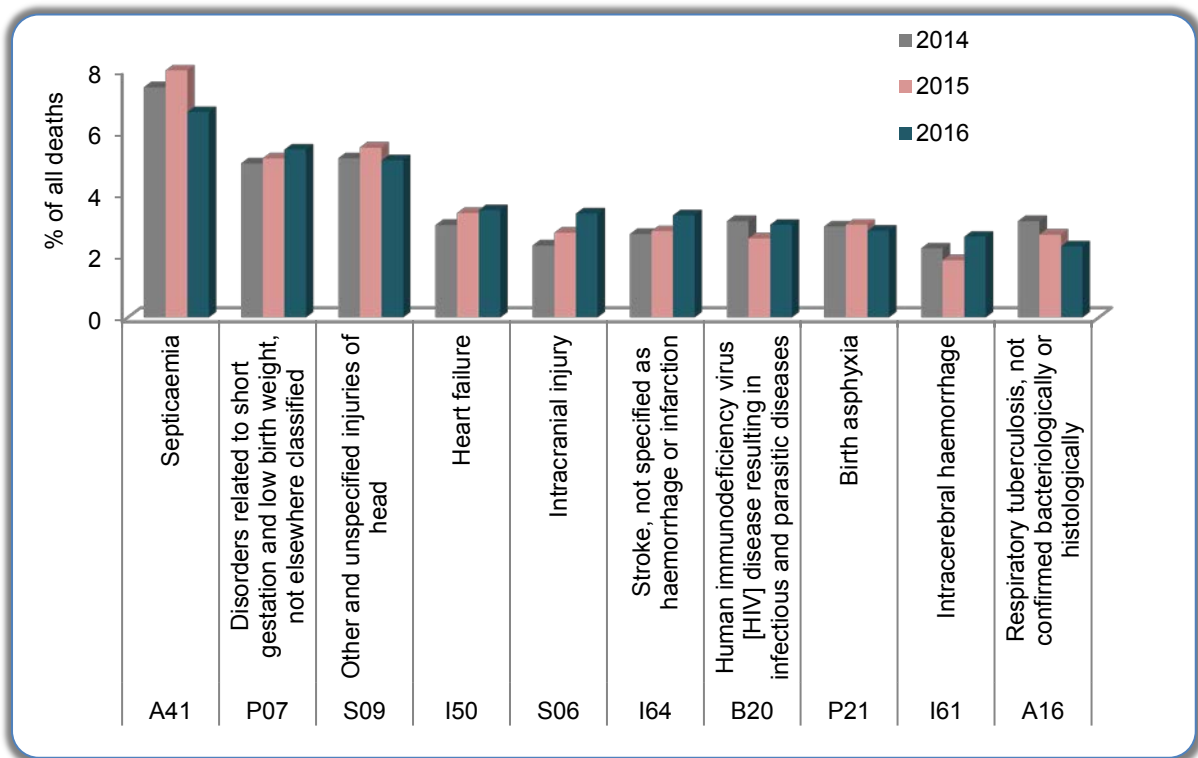


Figure (52) Proportion of Leading causes among all Mortality cases (2014-16)



Leading causes of mortality were described in Figure (52) as percentage of total inpatient deaths and sorted by ten leading causes of mortality in 2016. Septicaemia was found the highest during 2014-2016. Mortality pattern during these years are similar. Head injuries and intracranial injuries including traumatic extradural and subdural haemorrhage is found in the top ten leading causes of mortality.

Table (11-1) Single Leading Causes of Morbidity by Sex & Duration of Stay for Union (2014)

Sr. No.	ICD-10 Detail List	Causes	Sex						Avg. Duration of Stay
			Male		Female		Total		
			Number	%	Number	%	Number	%	
1	O80	Single spontaneous delivery	0	0	137274	12.0	137274	6.6	3.8
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	62305	6.6	55351	4.8	117656	5.6	3.6
3	O82	Single delivery by caesarean section	0	0	102501	8.9	102501	4.9	7.4
4	S09	Other and unspecified injuries of head	62471	6.7	25115	2.2	87586	4.2	3.3
5	B34	Viral infection of unspecified site	43144	4.6	40628	3.5	83772	4.0	3.7
6	K29	Gastritis and duodenitis	27539	2.9	31497	2.7	59036	2.8	4
7	J06	Acute upper respiratory infections of multiple and unspecified sites	22436	2.4	17898	1.6	40334	1.9	4.5
8	H26	Other cataract	15415	1.6	24865	2.2	40280	1.9	2.5
9	J18	Pneumonia, organism unspecified	21600	2.3	16870	1.5	38470	1.8	5
10	O06	Unspecified abortion	0	0	38406	3.4	38406	1.8	2.9
11	P59	Neonatal jaundice from other and unspecified causes	17293	1.8	15101	1.3	32394	1.6	4.1
12	A91	Dengue haemorrhagic fever	15496	1.6	15600	1.4	31096	1.5	3.7
13	F10	Mental and behavioural disorders due to use of alcohol	29293	3.1	843	0.1	30136	1.4	6.5
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	16849	1.8	9328	0.8	26177	1.3	7.6
15	I10	Essential (primary) hypertension	10507	1.1	15379	1.3	25886	1.2	4.3
	...	All other causes	594995	63.3	598753	52.3	1193748	57.3	6.2
		Total	939343	100	1145409	100	2084752	100	5.4

(*)Based on International Statistical Classification of Diseases and Related Health Problems (ICD-10) coding, the condition to be used for single-condition morbidity analysis is the main condition treated or investigated during the relevant episode of health care. Therefore, single spontaneous delivery is coded and presented as one of the causes of morbidity.

Table (11-2) Single Leading Causes of Morbidity by Sex & Duration of Stay for Union (2015)

Sr. No.	ICD-10 Detail List	Causes	Sex						Avg. Duration of Stay
			Male		Female		Total		
			Number	%	Number	%	Number	%	
1	O80	Single spontaneous delivery	0	0	178703	12.6	178703	7.0	3.8
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	81412	7.2	71116	5.0	152528	6.0	3.6
3	B34	Viral infection of unspecified site	66622	5.9	65408	4.6	132030	5.2	3.7
4	O82	Single delivery by caesarean section	0	0	121064	8.6	121064	4.7	7.3
5	S09	Other and unspecified injuries of head	69250	6.1	28199	2.0	97449	3.8	3.0
6	A91	Dengue haemorrhagic fever	42120	3.7	44702	3.2	86822	3.4	3.7
7	K29	Gastritis and duodenitis	35649	3.1	39343	2.8	74992	2.9	3.9
8	H26	Other cataract	16519	1.5	28259	2.0	44778	1.8	2.4
9	O06	Unspecified abortion	0	0	42630	3.0	42630	1.7	2.9
10	J06	Acute upper respiratory infections of multiple and unspecified sites	22912	2.0	17789	1.3	40701	1.6	4.6
11	P59	Neonatal jaundice from other and unspecified causes	19853	1.7	17397	1.2	37250	1.5	4.1
12	F10	Mental and behavioural disorders due to use of alcohol	35966	3.2	1158	0.1	37124	1.5	6.3
13	J18	Pneumonia, organism unspecified	19449	1.7	15205	1.1	34654	1.4	5.0
14	I10	Essential (primary) hypertension	13846	1.2	19298	1.4	33144	1.3	4.1
15	T14	Injury of unspecified body region	17818	1.6	10973	0.8	28791	1.1	3.3
	...	All other causes	695062	61.2	712346	50.4	1407408	55.2	6.2
		Total	1136478	100	1413590	100	2550068	100	5.3

(*)Based on International Statistical Classification of Diseases and Related Health Problems (ICD-10) coding, the condition to be used for single-condition morbidity analysis is the main condition treated or investigated during the relevant episode of health care. Therefore, single spontaneous delivery is coded and presented as one of the causes of morbidity.

Table (11-3) Single Leading Causes of Morbidity by Sex & Duration of Stay for Union (2016)

Sr. No.	ICD Detail List	Causes	Sex						Avg. Duration of Stay
			Male		Female		Total		
			Number	%	Number	%	Number	%	
1	O80	Single spontaneous delivery	0	0	203757	13.3	203757	7.4	3.6
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	76342	6.3	67710	4.4	144052	5.2	3.5
3	B34	Viral infection of unspecified site	69409	5.7	65607	4.3	135016	4.9	3.6
4	O82	Single delivery by caesarean section	0	0	133068	8.7	133068	4.8	7.1
5	S09	Other and unspecified injuries of head	70360	5.8	28450	1.9	98810	3.6	3.2
6	K29	Gastritis and duodenitis	38641	3.2	43213	2.8	81854	3.0	3.9
7	J06	Acute upper respiratory infections of multiple and unspecified sites	35454	2.9	28596	1.9	64050	2.3	4.6
8	J18	Pneumonia, organism unspecified	26860	2.2	21619	1.4	48479	1.8	5.1
9	O06	Unspecified abortion	0	0	44308	2.9	44308	1.6	2.9
10	F10	Mental and behavioural disorders due to use of alcohol	41533	3.4	1090	0.1	42623	1.6	5.8
11	P59	Neonatal jaundice from other and unspecified causes	20574	1.7	18206	1.2	38780	1.4	4.0
12	I10	Essential (primary) hypertension	15183	1.2	21787	1.4	36970	1.3	3.9
13	H26	Other cataract	13278	1.1	21768	1.4	35046	1.3	2.5
14	T14	Injury of unspecified body region	20924	1.7	13842	0.9	34766	1.3	3.4
15	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	19703	1.6	10891	0.7	30594	1.1	7.3
	...	All other causes	767300	63.1	805969	52.7	1573269	57.3	6.0
		Total	1215561	100	1529881	100	2745442	100	5.2

(*)Based on International Statistical Classification of Diseases and Related Health Problems (ICD-10) coding, the condition to be used for single-condition morbidity analysis is the main condition treated or investigated during the relevant episode of health care. Therefore, single spontaneous delivery is coded and presented as one of the causes of morbidity.

Table (12-1) Single Leading Causes of Mortality by Sex for Union (2014)

Sr. No.	ICD Detail List	Causes	Sex						Avg. Duration of Stay
			Male		Female		Total		
			Number	%	Number	%	Number	%	
1	A41	Other septicaemia	1403	6.5	1219	9.0	2622	7.4	4.7
2	S09	Other and unspecified injuries of head	1413	6.5	398	2.9	1811	5.1	2.7
3	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	973	4.5	779	5.8	1752	5.0	5.0
4	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	806	3.7	293	2.2	1099	3.1	5.9
5	B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	700	3.2	399	3.0	1099	3.1	10.6
6	I50	Heart failure	540	2.5	514	3.8	1054	3.0	4.1
7	P21	Birth asphyxia	588	2.7	450	3.3	1038	2.9	2.2
8	I64	Stroke, not specified as haemorrhage or infarction	598	2.8	353	2.6	951	2.7	3.2
9	S06	Intracranial injury	632	2.9	190	1.4	822	2.3	3.0
10	K74	Fibrosis and cirrhosis of liver	693	3.2	125	0.9	818	2.3	5.8
11	I61	Intracerebral haemorrhage	549	2.5	239	1.8	788	2.2	3.3
12	J18	Pneumonia, organism unspecified	404	1.9	278	2.1	682	1.9	3.7
13	P36	Bacterial sepsis of newborn	380	1.8	284	2.1	664	1.9	3.7
14	I21	Acute myocardial infarction	335	1.5	250	1.9	585	1.7	2.7
15	J44	Other chronic obstructive pulmonary disease	269	1.2	220	1.6	489	1.4	4.5
	...	All other causes	11422	52.6	7502	55.6	18924	53.8	6.9
		Total	21705	100	13493	100.0	35198	100	5.2

Table (12-2) Single Leading Causes of Mortality by Sex for Union (2015)

Sr. No.	ICD Detail List	C a u s e s	Sex						Avg. Duration of Stay
			Male		Female		Total		
			Number	%	Number	%	Number	%	
1	A41	Other septicaemia	1841	8	1236	8.6	3077	8.0	5.0
2	S09	Other and unspecified injuries of head	1615	6.7	500	3.5	2115	5.5	2.4
3	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	1118	4.7	862	6.0	1980	5.1	4.5
4	I50	Heart failure	684	3	620	4.3	1304	3.4	4.3
5	P21	Birth asphyxia	636	2.6	522	3.6	1158	3.0	2.3
6	I64	Stroke, not specified as haemorrhage or infarction	603	2.5	475	3.3	1078	2.8	3.6
7	S06	Intracranial injury	838	3.5	219	1.5	1057	2.7	3.0
8	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	778	3.2	257	1.8	1035	2.7	5.7
9	B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	657	3	331	2.3	988	2.6	10.7
10	K74	Fibrosis and cirrhosis of liver	704	2.9	146	1.0	850	2.2	6.8
11	I61	Intracerebral haemorrhage	498	2.1	217	1.5	715	1.9	2.9
12	R57	Shock, not elsewhere classified	418	1.7	278	1.9	696	1.8	3.7
13	P36	Bacterial sepsis of newborn	317	1.3	266	1.8	583	1.5	4.6
14	K72	Hepatic failure, not elsewhere classified	461	1.9	117	0.8	578	1.5	5.4
15	I10	Essential (primary) hypertension	334	1.4	243	1.7	577	1.5	3.2
	...	All other causes	12538	52.2	8165	56.5	20703	53.8	5.8
		Total	24040	100	14454	100	38494	100	5.2

Table (12-3) Single Leading Causes of Mortality by Sex for Union (2016)

Sr. No.	ICD Detail List	Causes	Sex						Avg. Duration of Stay
			Male		Female		Total		
			Number	%	Number	%	Number	%	
1	A41	Other septicaemia	1544	6	1223	7.5	2767	6.6	5.0
2	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	1164	4.6	1094	6.7	2258	5.4	5.7
3	S09	Other and unspecified injuries of head	1539	6.1	573	3.5	2112	5.1	2.6
4	I50	Heart failure	716	3	733	4.5	1449	3.5	4.4
5	S06	Intracranial injury	1093	4.3	310	1.9	1403	3.4	2.7
6	I64	Stroke, not specified as haemorrhage or infarction	784	3.1	596	3.6	1380	3.3	3.7
7	B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	821	3.2	431	2.6	1252	3.0	11.6
8	P21	Birth asphyxia	690	2.7	479	2.9	1169	2.8	2.1
9	I61	Intracerebral haemorrhage	768	3	321	2.0	1089	2.6	3.0
10	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	642	2.5	318	1.9	960	2.3	5.2
11	K74	Fibrosis and cirrhosis of liver	650	2.6	227	1.4	877	2.1	4.9
12	J18	Pneumonia, organism unspecified	344	1.4	366	2.2	710	1.7	3.4
13	I10	Essential (primary) hypertension	388	1.5	310	1.9	698	1.7	3.2
14	P36	Bacterial sepsis of newborn	411	1.6	267	1.6	678	1.6	5.4
15	K70	Alcoholic liver disease	633	2.5	17	0.1	650	1.6	5.2
	...	All other causes	13077	51.8	9112	55.6	22189	53.3	5.5
		Total	25264	100.0	16377	100.0	41641	100.0	5.1

Table (13) Single Leading causes of Morbidity for Union (2012-2016)

Sr. No.	ICD-10 Code	Description	2012		2013		2014		2015		2016	
			Number	%	Number	%	Number	%	Number	%	Number	%
1	O80	Single spontaneous delivery*	91345	6.0	111392	6.2	137274	6.6	178703	7.0	203757	7.4
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	86512	5.7	77964	4.4	117656	5.6	152528	6.0	144052	5.2
3	B34	Viral infection of unspecified site	55796	3.7	82010	4.6	83772	4.0	132030	5.2	135016	4.9
4	O82	Single delivery by caesarean section	74918	4.9	88386	5.0	102501	4.9	121064	4.7	133068	4.8
5	S09	Other and unspecified injuries of Head	71412	4.7	76643	4.3	87586	4.2	97449	3.8	98810	3.6
6	K29	Gastritis and duodenitis	36731	2.4	47216	2.6	59036	2.8	74992	2.9	81854	3.0
7	J06	Acute upper respiratory infections of multiple and unspecified sites	30753	2.0	30722	1.7	40334	1.9	40701	1.6	64050	2.3
8	J18	Pneumonia, organism unspecified	27714	1.8	29785	1.7	38470	1.8	34654	1.4	48479	1.8
9	O06	Unspecified abortion	30604	2.0	35430	2.0	38406	1.8	42630	1.7	44308	1.6
10	F10	Mental and behavioural disorders due to use of alcohol	15826	1.0	21923	1.2	30136	1.4	37124	1.5	42623	1.6
11	P59	Neonatal jaundice from other and unspecified causes	23781	1.6	27214	1.5	32394	1.6	37250	1.5	38780	1.4
12	I10	Essential (primary) hypertension	18572	1.2	23363	1.3	25886	1.2	33144	1.3	36970	1.3
13	H26	Other cataract	36081	2.4	37688	2.1	40280	1.9	44778	1.8	35046	1.3
14	T14	Injury of unspecified body region	21533	1.4	22745	1.3	25437	1.2	28791	1.1	34766	1.3
15	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	20539	1.4	22707	1.3	26177	1.3	28362	1.1	30594	1.1
	...	All other causes	878019	57.8	1050245	58.8	1199407	57.5	1465868	57.5	1573269	57.3
		Total	1520136	100.0	1785433	100.0	2084752	100.0	2550068	100.0	2745442	100.0

(*)Based on International Statistical Classification of Diseases and Related Health Problems (ICD-10) coding, the condition to be used for single-condition morbidity analysis is the main condition treated or investigated during the relevant episode of health care. Therefore, single spontaneous delivery is coded and presented as one of the causes of morbidity

Table (14) Single Leading causes of Mortality for Union (2012-2016)

Sr. No.	ICD-10 Code	Description	2012		2013		2014		2015		2016	
			Number	%	Number	%	Number	%	Number	%	Number	%
1	A41	Other septicaemia	1859	6.1	1959	6.0	2622	7.4	3077	8.0	2767	6.6
2	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	1381	4.5	1347	4.1	1752	5.0	1980	5.1	2258	5.4
3	S09	Other and unspecified injuries of head	1234	4.0	1803	5.5	1811	5.1	2115	5.5	2112	5.1
4	I50	Heart failure	1020	3.3	1051	3.2	1054	3.0	1304	3.4	1449	3.5
5	S06	Intracranial injury	814	2.7	804	2.5	822	2.3	1057	2.7	1403	3.4
6	I64	Stroke, not specified as haemorrhage or infarction	772	2.5	1014	3.1	951	2.7	1078	2.8	1380	3.3
7	B20	Human immunodeficiency virus[HIV] disease resulting in infectious and parasitic diseases	1199	3.9	1083	3.3	1099	3.1	988	2.6	1252	3.0
8	P21	Birth asphyxia	1036	3.4	930	2.9	1038	2.9	1158	3.0	1169	2.8
9	I61	Intracerebral haemorrhage	646	2.1	741	2.3	788	2.2	715	1.9	1089	2.6
10	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	845	2.8	874	2.7	1099	3.1	1035	2.7	960	2.3
	...	All other causes	19736	64.6	20889	64.3	22162	63.0	23987	62.3	25802	62.0
		Total	30542	100	32495	100	35198	100	38494	100	41641	100

Table (15) Leading Grouped Causes of Morbidity for Union (2012-2016)

Sr. No.	Grouped Basic Code	Causes	2012		2013		2014		2015		2016	
			Number	%	Number	%	Number	%	Number	%	Number	%
1	234-244	Pregnancy, childbirth and puerperium	267133	17.6	314873	17.6	376414	18.1	462644	18.1	516646	18.8
2	001-057	Certain infectious and parasitic diseases	265953	17.5	317180	17.8	338634	16.2	485369	19.0	413080	15.0
3	271-289	Injury, poisoning and certain other consequences of external causes	234532	15.4	267792	15	304145	14.6	353751	13.9	365781	13.3
4	180-197	Diseases of the digestive system	135908	8.9	166496	9.3	199342	9.6	236926	9.3	257561	9.4
5	165-179	Diseases of the respiratory system	108556	7.1	118560	6.6	149761	7.2	160292	6.3	217383	7.9
6	143-164	Diseases of the circulatory system	78798	5.2	96378	5.4	108424	5.2	131263	5.1	155434	5.7
7	267-270	Symptoms, signs, and abnormal clinical and laboratory findings	70379	4.6	78620	4.4	94264	4.5	112291	4.4	126803	4.6
8	211-233	Diseases of the genitourinary system	62996	4.1	74941	4.2	90765	4.4	107353	4.2	117725	4.3
9	058-096	Neoplasms	51643	3.4	62371	3.5	70459	3.4	83752	3.3	100062	3.6
10	245-253	Certain conditions originating in the perinatal period	52778	3.5	62246	3.5	76202	3.7	88265	3.5	104288	3.8
11	112-119	Mental and behavioural disorders	36051	2.4	47247	2.6	62814	3.0	73636	2.9	86705	3.2
12	130-139	Diseases of the eye and adnexa	42539	2.8	44491	2.5	49983	2.4	59098	2.3	58542	2.1
13	101-111	Endocrine, nutritional and metabolic diseases	24908	1.6	31394	1.8	37226	1.8	47492	1.9	54034	2.0
14	120-129	Diseases of the nervous system	20338	1.3	23206	1.3	27816	1.3	33862	1.3	38906	1.4
15	198-199	Diseases of the skin and subcutaneous tissue	19056	1.3	22342	1.3	28298	1.4	35231	1.4	41190	1.5
16	097-100	Diseases of the blood & blood-forming organs and certain disorders involving immune mechanism	16862	1.1	21041	1.2	23629	1.1	26168	1.0	29094	1.1
17	200-210	Diseases of the musculoskeletal system and connective tissue	14744	1	16996	1	21888	1.0	24846	1.0	31942	1.2
18	290-298	Factors influencing health status and contact with health services	8041	0.5	9956	0.6	13273	0.6	15914	0.6	15804	0.6
19	254-266	Congenital malformations, deformations and chromosomal abnormalities	7611	0.5	8128	0.5	9646	0.5	10011	0.4	11773	0.4
20	140-142	Diseases of the ear and mastoid process	1310	0.1	1176	0.1	1769	0.1	1904	0.1	2689	0.1
		T o t a l	1520136	100	1785433	100	2084752	100	2550068	100	2745442	100

Table (16) Leading Grouped Causes of Mortality for Union (2012-2016)

Sr. No.	Grouped Basic Code	Causes	2012		2013		2014		2015		2016	
			Number	%	Number	%	Number	%	Number	%	Number	%
1	143-164	Diseases of the circulatory system	5229	17.1	6199	19.1	6102	17.3	6735	17.5	8592	20.6
2	001-057	Certain infectious and parasitic diseases	6884	22.5	6524	20.1	7065	20.1	7505	19.5	6957	16.7
3	271-289	Injury, poisoning and certain other consequences of external causes	3592	11.8	4339	13.4	4443	12.6	5399	14.0	5877	14.1
4	245-253	Certain conditions originating in the perinatal period	3749	12.3	3884	12.0	4584	13.0	4927	12.8	5453	13.1
5	180-197	Diseases of the digestive system	2354	7.7	2760	8.5	2990	8.5	3346	8.7	3611	8.7
6	165-179	Diseases of the respiratory system	2620	8.6	2433	7.5	2962	8.4	2996	7.8	3220	7.7
7	058-096	Neoplasms	1310	4.3	1738	5.3	1879	5.3	2148	5.6	2405	5.8
8	120-129	Diseases of the nervous system	731	2.4	700	2.2	774	2.2	887	2.3	1007	2.4
9	101-111	Endocrine, nutritional and metabolic diseases	690	2.3	758	2.3	752	2.1	828	2.2	1006	2.4
10	211-233	Diseases of the genitourinary system	790	2.6	818	2.5	836	2.4	862	2.2	874	2.1
11	267-270	Symptoms, signs, and abnormal clinical and laboratory findings	1383	4.5	959	3.0	1134	3.2	1247	3.2	866	2.1
12	254-266	Congenital malformations, deformations and chromosomal abnormalities	322	1.1	355	1.1	537	1.5	397	1.0	507	1.2
13	112-119	Mental and behavioural disorders	239	0.8	233	0.7	311	0.9	365	0.9	428	1.0
14	234-244	Pregnancy, childbirth and puerperium	366	1.2	338	1.0	367	1.0	361	0.9	327	0.8
15	097-100	Diseases of the blood and blood-forming organs and certain disorders involving	147	0.5	317	1.0	261	0.7	332	0.9	266	0.6
	...	All other causes	136	0.4	140	0.4	201	0.6	159	0.4	245	0.6
		T o t a l	30542	100	32495	100	35198	100	38494	100.0	41641	100

Note: Leading causes in Table (13) to (16) are sorted according to 2016 data.

Table (17-1) Distribution of Discharges and Deaths by Sex and Age Group for Union (2014)

Age Group	Discharges & Deaths						Deaths only					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
< 1	105591	11.2	83037	7.2	188628	9.0	3939	18.1	3069	22.7	7008	19.9
1 - 4	94022	10.0	72082	6.3	166104	8.0	597	2.8	473	3.5	1070	3.0
5 - 14	102870	11.0	76900	6.7	179770	8.6	725	3.3	484	3.6	1209	3.4
15 - 24	110971	11.8	200109	17.5	311080	14.9	1153	5.3	884	6.6	2037	5.8
25 - 34	132389	14.1	270944	23.7	403333	19.3	2821	13.0	1282	9.5	4103	11.7
35 - 44	124383	13.2	167817	14.7	292200	14.0	3735	17.2	1354	10.0	5089	14.5
45 - 54	104177	11.1	97894	8.5	202071	9.7	3294	15.2	1648	12.2	4942	14.0
55 - 64	80689	8.6	82282	7.2	162971	7.8	2490	11.5	1612	11.9	4102	11.7
65 - 74	50838	5.4	56334	4.9	107172	5.1	1659	7.6	1360	10.1	3019	8.6
75 & +	33413	3.6	38010	3.3	71423	3.4	1292	6.0	1325	9.8	2617	7.4
Total	939343	100	1145409	100	2084752	100	21705	100	13493	100	35196	100

Table (17-2) Distribution of Discharges and Deaths by Sex and Age Group for Union (2015)

Age Group	Discharges & Deaths						Deaths only					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
< 1	118892	10.5	94249	6.7	213141	8.4	4003	16.7	3153	21.8	7156	18.6
1 - 4	118399	10.4	92182	6.5	210581	8.3	658	2.7	575	4.0	1233	3.2
5 - 14	141293	12.4	117574	8.3	258867	10.2	677	2.8	690	4.8	1367	3.6
15 - 24	133923	11.8	252151	17.8	386074	15.1	1489	6.2	951	6.6	2440	6.3
25 - 34	153890	13.5	323152	22.9	477042	18.7	2944	12.2	1277	8.8	4221	11.0
35 - 44	145633	12.8	197773	14.0	343406	13.5	3962	16.5	1416	9.8	5378	14.0
45 - 54	123618	10.9	117005	8.3	240623	9.4	3611	15.0	1569	10.9	5180	13.5
55 - 64	98650	8.7	100875	7.1	199525	7.8	3108	12.9	1956	13.5	5064	13.2
65 - 74	62369	5.5	71655	5.1	134024	5.3	2050	8.5	1519	10.5	3569	9.3
75 & +	39811	3.5	46974	3.3	86785	3.4	1538	6.4	1348	9.3	2886	7.5
Total	1136478	100	1413590	100	2550068	100	24040	100	14454	100	38494	100

Table (17-3) Distribution of Discharges and Deaths by Sex and Age Group for Union (2016)

Age Group	Discharges & Deaths						Deaths only					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
< 1	140256	11.5	111789	7.3	252045	9.2	4473	17.7	3543	21.6	8016	19.3
1 - 4	130019	10.7	99645	6.5	229664	8.4	587	2.3	678	4.1	1265	3.0
5 - 14	123993	10.2	94397	6.2	218390	8.0	548	2.2	537	3.3	1085	2.6
15 - 24	136260	11.2	278885	18.2	415145	15.1	1751	6.9	871	5.3	2622	6.3
25 - 34	163151	13.4	357261	23.4	520412	19.0	3004	11.9	1287	7.9	4291	10.3
35 - 44	157003	12.9	214201	14.0	371204	13.5	3897	15.4	1593	9.7	5490	13.2
45 - 54	135132	11.1	127550	8.3	262682	9.6	3834	15.2	1987	12.1	5821	14.0
55 - 64	111135	9.1	112698	7.4	223833	8.2	3496	13.8	2157	13.2	5653	13.6
65 - 74	72701	6.0	81153	5.3	153854	5.6	2007	7.9	1933	11.8	3940	9.5
75 & +	45911	3.8	52302	3.4	98213	3.6	1667	6.6	1791	10.9	3458	8.3
Total	1215561	100	1529881	100	2745442	100	25264	100	16377	100	41641	100

(B) MORBIDITY AND MORTALITY STATISTICS FOR TARGET POPULATION**Table (18-1) Leading causes of Morbidity in Neonate (1-28 days) (2014)**

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P59	Neonatal jaundice from other and unspecified causes	17293	15101	32394	36.2	4.0
2	P36	Bacterial sepsis of newborn	7097	6063	13160	14.7	5.3
3	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	4052	3948	8000	8.9	9.5
4	P21	Birth asphyxia	4339	3587	7926	8.9	5.5
5	P39	Other infections specific to the perinatal period	1843	1515	3358	3.8	4.6
6	P22	Respiratory distress of newborn	1014	733	1747	2.0	6.3
7	Z76	Persons encountering health services in other circumstances	809	775	1584	1.8	5.2
8	P81	Other disturbances of temperature regulation of newborn	662	661	1323	0.0	4.7
9	P24	Neonatal aspiration syndromes	675	601	1276	1.4	6.1
10	P08	Disorders related to long gestation and high birth weight	570	570	1140	1.3	5.9
11	P38	Omphalitis of newborn with or without mild haemorrhage	558	566	1124	1.2	5.1
12	A09	Diarrhoea and gastroenteritis of presumed infectious origin	582	508	1090	1.2	4.5
13	J18	Pneumonia, organism unspecified	557	503	1060	1.2	5.8
14	J06	Acute upper respiratory infections of multiple and unspecified sites	507	492	999	1.1	5.7
15	P00	Fetus and newborn affected by maternal conditions that may be unrelated to present pregnancy	340	340	680	0.8	5.5
16	P05	Slow fetal growth and fetal malnutrition	292	355	647	0.7	5.9
17	B34	Viral infection of unspecified site	291	255	546	0.6	3.9
18	A41	Other septicaemia	299	233	532	0.6	5.6
19	L08	Other local infections of skin and subcutaneous tissue	259	251	510	0.6	4.5
20	P03	Fetus and newborn affected by other complications of labour and delivery	119	323	442	0.5	5.5
...	All other causes		5342	4351	9693	10.9	6.5
Total			47500	41731	89231	100	5.3

Table (18-2) Leading causes of Morbidity in Neonate (1-28 days) (2015)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P59	Neonatal jaundice from other and unspecified causes	19853	17397	37250	36.3	4.1
2	P36	Bacterial sepsis of newborn	7920	7090	15010	14.6	5.4
3	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	4751	4824	9575	9.3	9.8
4	P21	Birth asphyxia	5198	3944	9142	8.9	5.7
5	P39	Other infections specific to the perinatal period	1606	1491	3097	3.0	4.9
6	P22	Respiratory distress of newborn	1331	976	2307	2.2	6.4
7	P24	Neonatal aspiration syndromes	973	834	1807	1.8	6.2
8	P38	Omphalitis of newborn with or without mild haemorrhage	891	795	1686	1.6	4.7
9	P81	Other disturbances of temperature regulation of newborn	890	694	1584	1.5	4.8
10	P08	Disorders related to long gestation and high birth weight	791	765	1556	1.5	5.5
11	A09	Diarrhoea and gastroenteritis of presumed infectious origin	730	583	1313	1.3	4.3
12	Z76	Persons encountering health services in other circumstances	717	571	1288	1.3	5.0
13	P00	Fetus and newborn affected by maternal conditions that may be unrelated to present pregnancy	413	475	888	0.9	6.1
14	J18	Pneumonia, organism unspecified	456	355	811	0.8	6.5
15	P05	Slow fetal growth and fetal malnutrition	363	414	777	0.8	6.5
16	B34	Viral infection of unspecified site	450	297	747	0.7	4.2
17	J06	Acute upper respiratory infections of multiple and unspecified sites	383	349	732	0.7	4.8
18	L08	Other local infections of skin and subcutaneous tissue	327	282	609	0.6	4.5
19	A91	Dengue haemorrhagic fever	285	323	608	0.6	3.7
20	A41	Other septicaemia	313	222	535	0.5	5.0
...	All other causes		6298	4941	11239	11.0	5.9
Total			54939	47622	102561	100.0	5.4

Table (18-3) Leading causes of Morbidity in Neonate (1-28 days) (2016)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P59	Neonatal jaundice from other and unspecified causes	20574	18206	38780	31.6	4.0
2	P36	Bacterial sepsis of newborn	11103	10134	21237	17.3	5.7
3	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	5742	5267	11009	9.0	9.9
4	P21	Birth asphyxia	5524	4276	9800	8.0	5.4
5	P39	Other infections specific to the perinatal period	2899	2718	5617	4.6	4.4
6	P22	Respiratory distress of newborn	1980	1313	3293	2.7	6.7
7	P38	Omphalitis of newborn with or without mild haemorrhage	1655	1413	3068	2.5	5.3
8	P81	Other disturbances of temperature regulation of newborn	1214	1031	2245	1.8	5.1
9	P24	Neonatal aspiration syndromes	980	822	1802	1.5	6.8
10	Z76	Persons encountering health services in other circumstances	721	838	1559	1.3	4.7
11	P08	Disorders related to long gestation and high birth weight	748	738	1486	1.2	5.7
12	J18	Pneumonia, organism unspecified	733	681	1414	1.2	6.4
13	J06	Acute upper respiratory infections of multiple and unspecified sites	780	595	1375	1.1	5.6
14	A09	Diarrhoea and gastroenteritis of presumed infectious origin	731	499	1230	1.0	4.1
15	B34	Viral infection of unspecified site	578	571	1149	0.9	3.3
16	p00	Fetus and newborn affected by maternal conditions that may be unrelated to present pregnancy	588	500	1088	0.9	5.7
17	P05	Slow fetal growth and fetal malnutrition	526	492	1018	0.8	5.7
18	A41	Other septicaemia	510	218	728	0.6	6.1
19	P23	Congenital pneumonia	407	298	705	0.6	6.9
20	L08	Other local infections of skin and subcutaneous tissue	343	157	500	0.4	5.3
...	All other causes		7524	6101	13625	11.1	6.3
	Total		65860	56868	122728	100.0	5.5

Table (19-1) Leading causes of Morbidity in under one year age group (2014)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P59	Neonatal jaundice from other and unspecified causes	17293	15101	32394	17.2	4.1
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	15265	10096	25361	13.4	4.1
3	J06	Acute upper respiratory infections of multiple and unspecified sites	10958	7772	18730	9.9	4.8
4	J18	Pneumonia, organism unspecified	10927	7771	18698	9.9	5.2
5	P36	Bacterial sepsis of newborn	7097	6063	13160	7.0	5.3
6	B34	Viral infection of unspecified site	5635	4480	10115	5.4	3.8
7	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	4052	3948	8000	4.2	9.7
8	P21	Birth asphyxia	4339	3587	7926	4.2	5.5
9	P39	Other infections specific to the perinatal period	1843	1515	3358	1.8	4.6
10	J21	Acute bronchiolitis	1995	1228	3223	1.7	3.9
11	R56	Convulsions, not elsewhere classified	1611	1309	2920	1.5	3.9
12	E51	Thiamine deficiency	1457	1192	2649	1.4	4.2
13	A91	Dengue haemorrhagic fever	996	860	1856	1.0	4.0
14	P22	Respiratory distress of newborn	1014	733	1747	0.9	6.3
15	Z76	Persons encountering health services in other circumstances	820	785	1605	0.9	5.2
16	A41	Other septicaemia	878	622	1500	0.8	5.7
17	G03	Meningitis due to other and unspecified causes	747	661	1408	0.7	8.3
18	R50	Fever of unknown origin	753	587	1340	0.7	4.0
19	P81	Other disturbances of temperature regulation of newborn	662	661	1323	0.7	4.3
20	P24	Neonatal aspiration syndromes	675	601	1276	0.7	6.2
...	All other causes		16574	13465	30039	15.9	6.0
	Total		105591	83037	188628	100	5.0

Table (19-2) Leading causes of Morbidity in under one year age group (2015)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P59	Neonatal jaundice from other and unspecified causes	19853	17397	37250	17.5	4.1
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	19976	13406	33382	15.7	4.0
3	J06	Acute upper respiratory infections of multiple and unspecified sites	10116	6800	16916	7.9	4.8
4	P36	Bacterial sepsis of newborn	7920	7090	15010	7.0	5.4
5	J18	Pneumonia, organism unspecified	8516	6268	14784	6.9	5.1
6	B34	Viral infection of unspecified site	7195	5879	13074	6.1	3.7
7	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	4751	4824	9575	4.5	9.8
8	P21	Birth asphyxia	5198	3944	9142	4.3	5.7
9	A91	Dengue haemorrhagic fever	3138	3004	6142	2.9	3.8
10	R56	Convulsions, not elsewhere classified	1661	1745	3406	1.6	3.6
11	P39	Other infections specific to the perinatal period	1606	1491	3097	1.5	4.9
12	J21	Acute bronchiolitis	1567	907	2474	1.2	4.3
13	E51	Thiamine deficiency	1316	1105	2421	1.1	3.8
14	P22	Respiratory distress of newborn	1331	976	2307	1.1	6.4
15	P24	Neonatal aspiration syndromes	973	834	1807	0.8	6.2
16	G03	Meningitis due to other and unspecified causes	1060	737	1797	0.8	8.1
17	P38	Omphalitis of newborn with or without mild haemorrhage	891	795	1686	0.8	4.7
18	R50	Fever of unknown origin	843	746	1589	0.7	3.6
19	P81	Other disturbances of temperature regulation of newborn	890	694	1584	0.7	4.8
20	P08	Disorders related to long gestation and high birth weight	791	765	1556	0.7	5.5
...	All other causes		19300	14842	34142	16.0	6.2
Total			118892	94249	213141	100.0	5.0

Table (19-3) Leading causes of Morbidity in under one year age group (2016)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P59	Neonatal jaundice from other and unspecified causes	20574	18206	38780	15.4	4.0
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	19430	12071	31501	12.5	4.0
3	J06	Acute upper respiratory infections of multiple and unspecified sites	15556	12056	27612	11.0	4.8
4	P36	Bacterial sepsis of newborn	11103	10134	21237	8.4	5.7
5	J18	Pneumonia, organism unspecified	11778	9105	20883	8.3	5.3
6	B34	Viral infection of unspecified site	7937	7240	15177	6.0	3.7
7	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	5742	5267	11009	4.4	9.9
8	P21	Birth asphyxia	5524	4276	9800	3.9	5.4
9	P39	Other infections specific to the perinatal period	2899	2718	5617	2.2	4.4
10	J21	Acute bronchiolitis	3664	1815	5479	2.2	4.0
11	R56	Convulsions, not elsewhere classified	1968	1648	3616	1.4	3.9
12	P22	Respiratory distress of newborn	1980	1313	3293	1.3	6.7
13	P38	Omphalitis of newborn with or without mild haemorrhage	1655	1413	3068	1.2	5.3
14	E51	Thiamine deficiency	1238	1087	2325	0.9	3.7
15	P81	Other disturbances of temperature regulation of newborn	1214	1031	2245	0.9	5.1
16	R50	Fever of unknown origin	957	985	1942	0.8	4.0
17	G03	Meningitis due to other and unspecified causes	922	964	1886	0.7	9.1
18	A41	Other septicaemia	1031	793	1824	0.7	5.9
19	P24	Neonatal aspiration syndromes	980	822	1802	0.7	6.8
20	J22	Unspecified acute lower respiratory infection	1021	751	1772	0.7	5.0
...	All other causes		23083	18094	41177	16.3	6.2
Total			140256	111789	252045	100.0	5.1

Table (20-1) Leading causes of Morbidity in under five year age group (2014)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	36313	25525	61838	17.4	3.8
2	J06	Acute upper respiratory infections of multiple and unspecified sites	19604	15514	35118	9.9	4.6
3	B34	Viral infection of unspecified site	18551	15865	34416	9.7	3.6
4	J18	Pneumonia, organism unspecified	18461	14513	32974	9.3	4.9
5	P59	Neonatal jaundice from other and unspecified causes	17293	15101	32394	9.1	4.1
6	P36	Bacterial sepsis of newborn	7097	6063	13160	3.7	5.3
7	R56	Convulsions, not elsewhere classified	6590	4737	11327	3.2	3.4
8	A91	Dengue haemorrhagic fever	4834	4564	9398	2.6	3.7
9	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	4052	3948	8000	2.3	9.7
10	P21	Birth asphyxia	4339	3587	7926	2.2	5.5
11	J21	Acute bronchiolitis	2616	1604	4220	1.2	4.0
12	R50	Fever of unknown origin	2150	1802	3952	1.1	3.9
13	P39	Other infections specific to the perinatal period	1843	1515	3358	0.9	4.6
14	S09	Other and unspecified injuries of head	1989	1264	3253	0.9	2.6
15	E51	Thiamine deficiency	1661	1329	2990	0.8	4.2
16	L02	Cutaneous abscess, furuncle and carbuncle	1756	1230	2986	0.8	5.1
17	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	1589	1209	2798	0.8	7.3
18	T30	Burn and corrosion, body region unspecified	1285	964	2249	0.6	7.6
19	G03	Meningitis due to other and unspecified causes	1126	1019	2145	0.6	8.0
20	B54	Unspecified malaria	1184	937	2121	0.6	5.0
...	All other causes		45280	32829	78109	22.0	5.7
Total			199613	155119	354732	100	4.7

Table (20-2) Leading causes of Morbidity in under five year age group (2015)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	49229	33967	83196	19.6	3.7
2	B34	Viral infection of unspecified site	25359	22327	47686	11.3	3.6
3	P59	Neonatal jaundice from other and unspecified causes	19853	17397	37250	8.8	4.1
4	J06	Acute upper respiratory infections of multiple and unspecified sites	19491	14577	34068	8.0	4.6
5	J18	Pneumonia, organism unspecified	15907	12298	28205	6.7	4.9
6	A91	Dengue haemorrhagic fever	12818	13004	25822	6.1	3.7
7	P36	Bacterial sepsis of newborn	7920	7090	15010	3.5	5.4
8	R56	Convulsions, not elsewhere classified	7270	5917	13187	3.1	3.4
9	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	4751	4824	9575	2.3	9.8
10	P21	Birth asphyxia	5198	3944	9142	2.2	5.7
11	R50	Fever of unknown origin	2734	2405	5139	1.2	3.8
12	S09	Other and unspecified injuries of head	2435	1678	4113	1.0	2.8
13	J21	Acute bronchiolitis	2203	1319	3522	0.8	4.1
14	L02	Other intestinal obstruction of newborn	1893	1550	3443	0.8	4.8
15	P39	Other infections specific to the perinatal period	1606	1491	3097	0.7	4.9
16	E51	Thiamine deficiency	1594	1423	3017	0.7	3.9
17	G03	Meningitis due to other and unspecified causes	1649	1173	2822	0.7	7.9
18	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	1692	1095	2787	0.7	6.4
19	T30	Burn and corrosion, body region unspecified	1495	1136	2631	0.6	7.0
20	J45	Asthma	1271	1067	2338	0.6	4.1
...	All other causes		50923	36749	87672	20.7	5.7
Total			237291	186431	423722	100.0	4.6

Table (20-3) Leading causes of Morbidity in under five year age group (2016)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	45838	31577	77415	16.1	3.7
2	B34	Viral infection of unspecified site	29957	25600	55557	11.5	3.5
3	J06	Acute upper respiratory infections of multiple and unspecified sites	30462	24395	54857	11.4	4.6
4	J18	Pneumonia, organism unspecified	22549	17907	40456	8.4	5.0
5	p59	Neonatal jaundice from other and unspecified causes	20574	18206	38780	8.1	4.0
6	P36	Bacterial sepsis of newborn	11103	10134	21237	4.4	5.7
7	R56	Convulsions, not elsewhere classified	9086	6592	15678	3.3	3.4
8	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	5742	5267	11009	2.3	9.9
9	P21	Birth asphyxia	5524	4276	9800	2.0	5.4
10	J21	Acute bronchiolitis	4703	2547	7250	1.5	3.9
11	A91	Dengue haemorrhagic fever	3332	3201	6533	1.4	3.7
12	R50	Fever of unknown origin	3310	2745	6055	1.3	4.0
13	P39	Other infections specific to the perinatal period	2899	2718	5617	1.2	4.4
14	L02	Cutaneous abscess, furuncle and carbuncle	2715	2011	4726	1.0	5.0
15	S09	Other and unspecified injuries of head	2397	1928	4325	0.9	2.6
16	J22	Unspecified acute lower respiratory infection	2150	1692	3842	0.8	4.6
17	J45	Asthma	1858	1596	3454	0.7	4.4
18	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	2052	1282	3334	0.7	6.5
19	P22	Respiratory distress of newborn	1980	1313	3293	0.7	6.7
20	T30	Burn and corrosion, body region unspecified	1956	1305	3261	0.7	6.7
...	All other causes		60088	45142	105230	21.8	5.7
	Total		270275	211434	481709	100.0	4.7

**Table (21-1) Leading causes of Morbidity in adolescents (15-19 year age group)
(2014)**

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	O80	Single spontaneous delivery	0	11813	11813	10.5	3.8
2	S09	Other and unspecified injuries of head	7424	2383	9807	8.7	3.2
3	K29	Gastritis and duodenitis	1963	3608	5571	4.9	3.3
4	O82	Single delivery by caesarean section		4494	4494	4.0	7.3
5	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1791	2256	4047	3.6	3.2
6	B34	Viral infection of unspecified site	2002	1982	3984	3.5	3.7
7	K35	Acute appendicitis	1389	1812	3201	2.8	5.1
8	T14	Injury of unspecified body region	1665	892	2557	2.3	3.4
9	F41	Other anxiety disorders	376	2014	2390	2.1	2.3
10	O06	Unspecified abortion	0	1987	1987	1.8	2.8
11	O81	Single delivery by forceps and vacuum extractor	0	1880	1880	1.7	4.5
12	T63	Toxic effect of contact with venomous animals	1172	613	1785	1.6	4.1
13	B54	Unspecified malaria	972	456	1428	1.3	4.5
14	S52	Fracture of forearm	1104	166	1270	1.1	5.0
15	F43	Reaction to severe stress, and adjustment disorders	178	1030	1208	1.1	1.9
16	S39	Other and unspecified injuries of abdomen, lower back and pelvis	724	359	1083	1.0	4.1
17	A91	Dengue haemorrhagic fever	569	503	1072	1.0	3.9
18	R10	Abdominal and pelvic pain	358	687	1045	0.9	3.1
19	L02	Cutaneous abscess, furuncle and carbuncle	716	308	1024	0.9	5.7
20	R50	Fever of unknown origin	557	455	1012	0.9	4.2
...	All other causes		25815	24310	50125	44.4	5.7
	Total		48775	64008	112783	100	4.7

**Table (21-2) Leading causes of Morbidity in adolescents (15-19 year age group)
(2015)**

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	O80	Single spontaneous delivery		15739	15739	11.1	3.7
2	S09	Other and unspecified injuries of head	8477	2541	11018	7.8	3.0
3	B34	Viral infection of unspecified site	3897	3806	7703	5.4	3.5
4	K29	Gastritis and duodenitis	2382	4653	7035	4.9	3.6
5	O82	Single delivery by caesarean section		5655	5655	4.0	7.2
6	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2297	2596	4893	3.4	3.1
7	A91	Dengue haemorrhagic fever	2125	1716	3841	2.7	3.8
8	K35	Acute appendicitis	1344	2394	3738	2.6	5.0
9	T14	Injury of unspecified body region	1879	1013	2892	2.0	3.3
10	F41	Other anxiety disorders	481	2346	2827	2.0	2.3
11	O06	Unspecified abortion		2215	2215	1.6	3.0
12	O81	Single delivery by forceps and vacuum extractor		2119	2119	1.5	4.3
13	T63	Toxic effect of contact with venomous animals	1321	784	2105	1.5	3.7
14	F43	Reaction to severe stress, and adjustment disorders	259	1464	1723	1.2	2.4
15	T07	Unspecified multiple injuries	1315	319	1634	1.1	3.5
16	R50	Fever of unknown origin	804	782	1586	1.1	4.1
17	S52	Fracture of forearm	1269	230	1499	1.1	5.8
18	B54	Unspecified malaria	861	580	1441	1.0	5.0
19	L02	Cutaneous abscess, furuncle and carbuncle	947	464	1411	1.0	7.1
20	O47	False labour		1322	1322	0.9	2.7
...	All other causes		31706	28044	59750	42.0	5.8
Total			61364	80782	142146	100.0	4.7

**Table (21-3) Leading causes of Morbidity in adolescents (15-19 year age group)
(2016)**

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	O80	Single spontaneous delivery	0	18541	18541	12.7	3.6
2	S09	Other and unspecified injuries of head	8493	2514	11007	7.5	2.8
3	K29	Gastritis and duodenitis	2154	4811	6965	4.8	3.2
4	O82	Single delivery by caesarean section		6343	6343	4.3	6.9
5	B34	Viral infection of unspecified site	2521	2687	5208	3.6	3.8
6	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1820	2605	4425	3.0	3.2
7	K35	Acute appendicitis	1446	2723	4169	2.9	4.7
8	T14	Injury of unspecified body region	2149	1143	3292	2.3	3.3
9	F41	Other anxiety disorders	286	2518	2804	1.9	2.6
10	O06	Unspecified abortion	0	2681	2681	1.8	2.8
11	O81	Single delivery by forceps and vacuum extractor	0	2253	2253	1.5	4.5
12	N39	Other disorders of urinary system	443	1216	1659	1.1	3.7
13	T63	Toxic effect of contact with venomous animals	1129	499	1628	1.1	2.8
14	F43	Reaction to severe stress, and adjustment disorders	272	1343	1615	1.1	2.2
15	O47	False labour	0	1608	1608	1.1	2.7
16	S52	Fracture of forearm	1302	176	1478	1.0	5.3
17	L02	Cutaneous abscess, furuncle and carbuncle	949	508	1457	1.0	6.6
18	T07	Unspecified multiple injuries	1057	318	1375	0.9	2.7
19	R10	Abdominal and pelvic pain	504	763	1267	0.9	3.9
20	M32	Systemic lupus erythematosus	78	1122	1200	0.8	5.6
...	All other causes		34875	30312	65187	44.6	5.5
Total			59478	86684	146162	100.0	4.5

Table (22-1) Leading causes of Morbidity in Elderly (65 year and above age group) (2014)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	H26	Other cataract	7664	12536	20200	11.3	2.5
2	J44	Other chronic obstructive pulmonary disease	4256	4753	9009	5.0	6.2
3	I10	Essential (primary) hypertension	3207	4727	7934	4.4	4.6
4	I50	Heart failure	2497	3879	6376	3.6	6.1
5	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2208	3653	5861	3.3	3.7
6	I25	Chronic ischaemic heart disease	2060	3570	5630	3.2	5.6
7	J22	Unspecified acute lower respiratory infection	2072	2751	4823	2.7	5.7
8	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	2835	1716	4551	2.5	7.6
9	K29	Gastritis and duodenitis	1712	2600	4312	2.4	4.6
10	E14	Unspecified diabetes mellitus	1391	2544	3935	2.2	8.2
11	I64	Stroke, not specified as haemorrhage or infarction	1981	1801	3782	2.1	5.4
12	K92	Other diseases of digestive system	1685	1331	3016	1.7	5.7
13	S72	Fracture of femur	925	2036	2961	1.7	12.5
14	S09	Other and unspecified injuries of head	1560	1364	2924	1.6	3.4
15	N40	Hyperplasia of prostate	2869		2869	1.6	8.2
16	C34	Malignant neoplasm of bronchus and lung	1695	1062	2757	1.5	8.5
17	G81	Hemiplegia	1433	1308	2741	1.5	5.8
18	K40	Inguinal hernia	2188	69	2257	1.3	7.0
19	R33	Retention of urine	1892	147	2039	1.1	4.8
20	K74	Fibrosis and cirrhosis of liver	907	1024	1931	1.1	7.0
...	All other causes		37214	41473	78687	44.1	6.7
	Total		84251	94344	178595	100	6.0

Table (22-2) Leading causes of Morbidity in Elderly (65 year and above age group) (2015)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	H26	Other cataract	7757	13817	21574	9.8	2.4
2	J44	Other chronic obstructive pulmonary disease	5310	6206	11516	5.2	6.3
3	I10	Essential (primary) hypertension	4180	5982	10162	4.6	4.4
4	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2919	4831	7750	3.5	4.0
5	I50	Heart failure	3000	4648	7648	3.5	5.9
6	I25	Chronic ischaemic heart disease	2400	4220	6620	3.0	5.5
7	J22	Unspecified acute lower respiratory infection	2608	3530	6138	2.8	5.7
8	K29	Gastritis and duodenitis	2398	3688	6086	2.8	4.8
9	E14	Unspecified diabetes mellitus	1859	3501	5360	2.4	8.0
10	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	3285	1858	5143	2.3	7.6
11	I64	Stroke, not specified as haemorrhage or infarction	2606	2400	5006	2.3	5.1
12	H25	Senile cataract	1758	3187	4945	2.2	2.6
13	S72	Fracture of femur	1296	2521	3817	1.7	13.6
14	S09	Other and unspecified injuries of head	1814	1919	3733	1.7	3.5
15	K92	Other diseases of digestive system	2129	1528	3657	1.7	5.3
16	N40	Hyperplasia of prostate	3301	0	3301	1.5	7.2
17	C34	Malignant neoplasm of bronchus and lung	1994	1239	3233	1.5	8.4
18	G81	Hemiplegia	1651	1543	3194	1.4	5.7
19	K40	Inguinal hernia	2419	88	2507	1.1	6.5
20	K74	Fibrosis and cirrhosis of liver	1126	1225	2351	1.1	7.0
...	All other causes		46370	50698	97068	44.0	6.7
Total			102180	118629	220809	100.0	5.9

Table (22-3) Leading causes of Morbidity in Elderly (65 year and above age group) (2016)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	H26	Other cataract	5162	9047	14210	5.6	2.4
2	J44	Other chronic obstructive pulmonary disease	6328	7185	13513	5.4	5.7
3	I10	Essential (primary) hypertension	5222	6965	12186	4.8	4.1
4	H25	Senile cataract	3582	6859	10442	4.1	2.5
5	I50	Heart failure	3486	5801	9287	3.7	6.0
6	A09	Diarrhoea and gastroenteritis of presumed infectious origin	3406	4899	8305	3.3	3.5
7	I64	Stroke, not specified as haemorrhage or infarction	4287	3884	8172	3.2	5.0
8	I25	Chronic ischaemic heart disease	2784	4761	7545	3.0	5.3
9	J22	Unspecified acute lower respiratory infection	3347	4011	7358	2.9	5.5
10	K29	Gastritis and duodenitis	2552	4120	6673	2.6	5.4
11	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	3879	2393	6273	2.5	7.2
12	E14	Unspecified diabetes mellitus	1889	3764	5653	2.2	7.1
13	S72	Fracture of femur	1449	2918	4367	1.7	12.9
14	C34	Malignant neoplasm of bronchus and lung	2514	1594	4108	1.6	8.4
15	K92	Other diseases of digestive system	2470	1499	3969	1.6	5.3
16	S09	Other and unspecified injuries of head	1924	1819	3742	1.5	3.4
17	G81	Hemiplegia	1829	1517	3347	1.3	6.2
18	B34	Viral infection of unspecified site	1289	1985	3274	1.3	4.5
19	N40	Hyperplasia of prostate	3258		3258	1.3	6.4
20	I21	Acute myocardial infarction	1708	1483	3191	1.3	4.8
...	All other causes		56247	56951	113194	44.9	6.5
Total			118612	133455	252067	100.0	5.8

Table (23-1) Leading causes of Mortality in neonate (1-28 days) (2014)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	973	779	1752	31.9	4.8
2	P21	Birth asphyxia	588	450	1038	18.9	2.2
3	P36	Bacterial sepsis of newborn	380	284	664	12.1	3.6
4	P59	Neonatal jaundice from other and unspecified causes	213	136	349	6.4	2.2
5	P22	Respiratory distress of newborn	126	113	239	4.4	3.3
6	A41	Other septicaemia	128	110	238	4.3	5.8
7	P24	Neonatal aspiration syndromes	85	87	172	3.1	1.7
8	P57	Kernicterus	99	42	141	2.6	1.3
9	Q79	Congenital malformations of the musculoskeletal system, not elsewhere classified	46	29	75	1.4	6.7
10	Q24	Other congenital malformations of heart	37	23	60	1.1	5.4
11	Q90	Down's syndrome	18	24	42	0.8	10.2
12	P39	Other infections specific to the perinatal period	19	21	40	0.7	4.2
13	P38	Omphalitis of newborn with or without mild haemorrhage	21	8	29	0.5	2.2
14	P08	Disorders related to long gestation and high birth weight	9	19	28	0.5	2.6
15	Q42	Congenital absence, atresia and stenosis of large intestine	16	11	27	0.5	2.7
16	Q00	Anencephaly and similar malformations	11	13	24	0.4	2.2
17	Q89	Other congenital malformations, not elsewhere classified	9	15	24	0.4	3.8
18	P23	Congenital pneumonia	12	9	21	0.4	1.4
19	J96	Respiratory failure, not elsewhere classified	14	6	20	0.4	2.9
20	P28	Other respiratory conditions originating in the perinatal period	15	5	20	0.4	10.6
...	All other causes		311	171	482	8.8	4.4
Total			3130	2355	5485	100	3.8

Table (23-2) Leading causes of Mortality in neonate (1-28 days) (2015)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	1118	862	1980	34.6	4.5
2	P21	Birth asphyxia	636	522	1158	20.2	2.3
3	P36	Bacterial sepsis of newborn	317	266	583	10.2	4.6
4	P59	Neonatal jaundice from other and unspecified causes	207	135	342	6.0	2.5
5	P22	Respiratory distress of newborn	141	134	275	4.8	3.4
6	A41	Other septicaemia	133	111	244	4.3	4.9
7	P24	Neonatal aspiration syndromes	106	77	183	3.2	3.8
8	P57	Kernicterus	103	22	125	2.2	1.6
9	P08	Disorders related to long gestation and high birth weight	27	24	51	0.9	4.0
10	Q79	Congenital malformations of the musculoskeletal system, not elsewhere classified	23	28	51	0.9	7.4
11	P28	Other respiratory conditions originating in the perinatal period	19	17	36	0.6	3.2
12	J06	Acute upper respiratory infections of multiple and unspecified sites	11	23	34	0.6	1.2
13	P39	Other infections specific to the perinatal period	5	27	32	0.6	2.8
14	Q24	Other congenital malformations of heart	21	10	31	0.5	3.0
15	P29	Cardiovascular disorders originating in the perinatal period	4	20	24	0.4	7.4
16	Q42	Congenital absence, atresia and stenosis of large intestine	21	3	24	0.4	3.0
17	J96	Respiratory failure, not elsewhere classified	17	6	23	0.4	6.0
18	P81	Other disturbances of temperature regulation of newborn	9	14	23	0.4	2.1
19	J18	Pneumonia, organism unspecified	18	3	21	0.4	2.8
20	G93	Other disorders of brain	11	7	18	0.3	2.6
...	All other causes		264	203	467	8.2	6.0
Total			3211	2514	5725	100	3.9

Table (23-3) Leading causes of Mortality in neonate (1-28 days) (2016)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	1164	1094	2258	34.9	5.7
2	P21	Birth asphyxia	690	479	1169	18.1	2.1
3	P36	Bacterial sepsis of newborn	411	267	678	10.5	5.4
4	P22	Respiratory distress of newborn	253	136	389	6.0	4.0
5	P59	Neonatal jaundice from other and unspecified causes	175	137	312	4.8	2.5
6	A41	Other septicaemia	215	87	302	4.7	7.0
7	P24	Neonatal aspiration syndromes	123	97	220	3.4	2.2
8	P57	Kernicterus	109	38	147	2.3	1.9
9	Q24	Other congenital malformations of heart	34	45	79	1.2	4.2
10	Q79	Congenital malformations of the musculoskeletal system, not elsewhere classified	34	28	62	1.0	9.7
11	J18	Pneumonia, organism unspecified	14	40	54	0.8	2.2
12	P08	Disorders related to long gestation and high birth weight	17	26	43	0.7	4.3
13	P23	Congenital pneumonia	21	7	28	0.4	6.2
14	Q00	Anencephaly and similar malformations	3	25	28	0.4	3.0
15	P38	Omphalitis of newborn with or without mild haemorrhage	21	6	27	0.4	4.7
16	P84	Other problems with newborn	16	11	27	0.4	5.6
17	J22	Unspecified acute lower respiratory infection	24	1	25	0.4	2.3
18	Q42	Congenital absence, atresia and stenosis of large intestine	15	10	25	0.4	6.5
19	P05	Slow fetal growth and fetal malnutrition	17	7	24	0.4	5.9
20	G03	Meningitis due to other and unspecified causes	3	20	23	0.4	1.8
...	All other causes		341	205	546	8.4	5.5
Total			3700	2766	6466	100.0	4.5

Table (24-1) Leading causes of Mortality in Under one age group (2014)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	973	779	1752	25.0	4.9
2	P21	Birth asphyxia	588	450	1038	14.8	2.2
3	P36	Bacterial sepsis of newborn	380	284	664	9.5	3.7
4	A41	Other septicaemia	294	217	511	7.3	4.9
5	J18	Pneumonia, organism unspecified	194	175	369	5.3	4.4
6	P59	Neonatal jaundice from other and unspecified causes	213	136	349	5.0	2.2
7	P22	Respiratory distress of newborn	126	113	239	3.4	3.3
8	P24	Neonatal aspiration syndromes	85	87	172	2.5	1.9
9	P57	Kernicterus	99	42	141	2.0	1.3
10	J06	Acute upper respiratory infections of multiple and unspecified sites	55	59	114	1.6	2.1
11	E51	Thiamine deficiency	49	54	103	1.5	1.0
12	G03	Meningitis due to other and unspecified causes	48	47	95	1.4	5.6
13	Q24	Other congenital malformations of heart	51	43	94	1.3	5.0
14	A09	Diarrhoea and gastroenteritis of presumed infectious origin	47	44	91	1.3	2.1
15	J22	Unspecified acute lower respiratory infection	45	41	86	1.2	2.1
16	Q79	Congenital malformations of the musculoskeletal system, not elsewhere classified	49	31	80	1.1	7.2
17	Q90	Down's syndrome	22	38	60	0.9	10.8
18	P39	Other infections specific to the perinatal period	19	21	40	0.6	4.2
19	E46	Unspecified protein-energy malnutrition	22	16	38	0.5	4.5
20	G04	Encephalitis, myelitis and encephalomyelitis	26	11	37	0.5	5.3
...	All other causes		554	381	935	13.3	5.2
Total			3939	3069	7008	100	4.0

Table (24-2) Leading causes of Mortality in Under one age group (2015)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	1118	862	1980	27.7	4.5
2	P21	Birth asphyxia	636	522	1158	16.2	2.3
3	P36	Bacterial sepsis of newborn	317	266	583	8.1	4.6
4	A41	Other septicaemia	296	214	510	7.1	4.8
5	P59	Neonatal jaundice from other and unspecified causes	207	135	342	4.8	2.5
6	P22	Respiratory distress of newborn	141	134	275	3.8	3.4
7	J18	Pneumonia, organism unspecified	154	114	268	3.7	3.1
8	P24	Neonatal aspiration syndromes	106	77	183	2.6	3.8
9	J06	Acute upper respiratory infections of multiple and unspecified sites	101	65	166	2.3	2.0
10	P57	Kernicterus	103	22	125	1.7	1.6
11	J22	Unspecified acute lower respiratory infection	32	48	80	1.1	3.0
12	G03	Meningitis due to other and unspecified causes	50	25	75	1.0	3.8
13	Q24	Other congenital malformations of heart	39	29	68	1.0	3.8
14	A09	Diarrhoea and gastroenteritis of presumed infectious origin	26	33	59	0.8	1.6
15	G04	Encephalitis, myelitis and encephalomyelitis	22	35	57	0.8	8.9
16	E51	Thiamine deficiency	40	16	56	0.8	1.0
17	Q79	Congenital malformations of the musculoskeletal system, not elsewhere classified	25	29	54	0.8	9.1
18	P08	Disorders related to long gestation and high birth weight	27	24	51	0.7	4.0
19	I50	Heart failure	11	29	40	0.6	5.8
20	A91	Dengue haemorrhagic fever	10	26	36	0.5	2.3
...	All other causes		542	448	990	13.8	6.0
Total			4003	3153	7156	100	4.0

Table (24-3) Leading causes of Mortality in Under one age group (2016)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	1164	1094	2258	28.2	5.7
2	P21	Birth asphyxia	690	479	1169	14.6	2.1
3	P36	Bacterial sepsis of newborn	411	267	678	8.4	5.4
4	A41	Other septicaemia	378	294	672	8.4	5.6
5	P22	Respiratory distress of newborn	253	136	389	4.9	4.0
6	J18	Pneumonia, organism unspecified	152	174	326	4.1	3.8
7	P59	Neonatal jaundice from other and unspecified causes	175	137	312	3.9	2.5
8	P24	Neonatal aspiration syndromes	123	97	220	2.7	2.2
9	P57	Kernicterus	109	38	147	1.8	1.9
10	J22	Unspecified acute lower respiratory infection	74	67	141	1.8	2.6
11	Q24	Other congenital malformations of heart	58	78	136	1.7	3.5
12	A09	Diarrhoea and gastroenteritis of presumed infectious origin	86	34	120	1.5	1.7
13	G03	Meningitis due to other and unspecified causes	21	55	76	0.9	2.6
14	E51	Thiamine deficiency	32	32	64	0.8	2.4
15	Q79	Congenital malformations of the musculoskeletal system, not elsewhere classified	34	28	62	0.8	9.7
16	J06	Acute upper respiratory infections of multiple and unspecified sites	27	19	46	0.6	1.3
17	P08	Disorders related to long gestation and high birth weight	17	26	43	0.5	4.3
18	J69	Pneumonitis due to solids and liquids	9	32	41	0.5	4.6
19	G04	Encephalitis, myelitis and encephalomyelitis	26	14	40	0.5	6.8
20	B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	17	18	35	0.4	3.4
...	All other causes		617	424	1041	13.0	6.1
Total			4473	3543	8016	100.0	4.5

Table (25-1) Leading causes of Mortality in under five age group (2014)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	973	779	1752	21.7	4.9
2	P21	Birth asphyxia	588	450	1038	12.8	2.2
3	A41	Other septicaemia	408	342	750	9.3	4.2
4	P36	Bacterial sepsis of newborn	380	284	664	8.2	3.7
5	J18	Pneumonia, organism unspecified	262	209	471	5.8	4.1
6	P59	Neonatal jaundice from other and unspecified causes	213	136	349	4.3	2.2
7	P22	Respiratory distress of newborn	126	113	239	3.0	3.3
8	P24	Neonatal aspiration syndromes	85	87	172	2.1	1.9
9	A09	Diarrhoea and gastroenteritis of presumed infectious origin	70	91	161	2.0	2.8
10	J06	Acute upper respiratory infections of multiple and unspecified sites	82	75	157	1.9	3.0
11	P57	Kernicterus	99	42	141	1.7	1.3
12	G03	Meningitis due to other and unspecified causes	60	73	133	1.6	5.4
13	E51	Thiamine deficiency	58	58	116	1.4	1.0
14	Q24	Other congenital malformations of heart	60	49	109	1.3	5.1
15	J22	Unspecified acute lower respiratory infection	52	49	101	1.3	2.0
16	Q79	Congenital malformations of the musculoskeletal system, not elsewhere classified	49	31	80	1.0	7.2
17	E46	Unspecified protein-energy malnutrition	39	32	71	0.9	3.7
18	Q90	Down's syndrome	24	46	70	0.9	9.9
19	G04	Encephalitis, myelitis and encephalomyelitis	38	19	57	0.7	6.2
20	P39	Other infections specific to the perinatal period	19	21	40	0.5	4.2
...	All other causes		851	556	1407	17.4	5.0
Total			4536	3542	8078	100	4.0

Table (25-2) Leading causes of Mortality in under five age group (2015)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	1118	862	1980	23.6	4.5
2	P21	Birth asphyxia	636	522	1158	13.8	2.3
3	A41	Other septicaemia	424	291	715	8.5	5.0
4	P36	Bacterial sepsis of newborn	317	266	583	6.9	4.6
5	J18	Pneumonia, organism unspecified	206	162	368	4.4	2.8
6	P59	Neonatal jaundice from other and unspecified causes	207	135	342	4.1	2.5
7	P22	Respiratory distress of newborn	141	134	275	3.3	3.4
8	A09	Diarrhoea and gastroenteritis of presumed infectious origin	80	105	185	2.2	1.7
9	J06	Acute upper respiratory infections of multiple and unspecified sites	109	74	183	2.2	2.1
10	P24	Neonatal aspiration syndromes	106	77	183	2.2	3.8
11	G03	Meningitis due to other and unspecified causes	65	61	126	1.5	3.3
12	P57	Kernicterus	103	22	125	1.5	1.6
13	I50	Heart failure	75	39	114	1.4	3.9
14	J22	Unspecified acute lower respiratory infection	41	54	95	1.1	2.9
15	G04	Encephalitis, myelitis and encephalomyelitis	37	54	91	1.1	6.5
16	Q24	Other congenital malformations of heart	47	34	81	1.0	3.7
17	A91	Dengue haemorrhagic fever	34	43	77	0.9	2.4
18	E46	Unspecified protein-energy malnutrition	30	28	58	0.7	2.8
19	E51	Thiamine deficiency	40	16	56	0.7	1.0
20	Q79	Congenital malformations of the musculoskeletal system, not elsewhere classified	25	29	54	0.6	9.1
...	All other causes		820	720	1540	18.4	5.8
Total			4661	3728	8389	100	4.1

Table (25-3) Leading causes of Mortality in under five age group (2016)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	1164	1094	2258	24.3	5.7
2	P21	Birth asphyxia	690	479	1169	12.6	2.1
3	A41	Other septicaemia	463	404	867	9.3	5.1
4	P36	Bacterial sepsis of newborn	411	267	678	7.3	5.4
5	J18	Pneumonia, organism unspecified	212	274	486	5.2	3.7
6	p22	Respiratory distress of newborn	253	136	389	4.2	4.0
7	P59	Neonatal jaundice from other and unspecified causes	175	137	312	3.4	2.5
8	P24	Neonatal aspiration syndromes	123	97	220	2.4	2.2
9	A09	Diarrhoea and gastroenteritis of presumed infectious origin	131	56	187	2.0	1.9
10	J22	Unspecified acute lower respiratory infection	81	103	184	2.0	3.0
11	Q24	Other congenital malformations of heart	81	94	175	1.9	3.4
12	P57	Kernicterus	109	38	147	1.6	1.9
13	G03	Meningitis due to other and unspecified causes	32	101	133	1.4	2.5
14	G04	Encephalitis, myelitis and encephalomyelitis	55	33	88	0.9	5.2
15	E51	Thiamine deficiency	47	39	86	0.9	2.1
16	J06	Acute upper respiratory infections of multiple and unspecified sites	29	53	82	0.9	1.5
17	B34	Viral infection of unspecified site	27	36	63	0.7	2.8
18	Q79	Congenital malformations of the musculoskeletal system, not elsewhere classified	34	28	62	0.7	9.7
19	J69	Pneumonitis due to solids and liquids	13	45	58	0.6	8.3
20	P08	Disorders related to long gestation and high birth weight	17	26	43	0.5	4.3
...	All other causes		913	681	1594	17.2	6.2
Total			5060	4221	9281	100.0	4.5

**Table (26-1) Leading causes of Mortality in adolescents (15-19 year age group)
(2014)**

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	S09	Other and unspecified injuries of head	76	23	99	12.0	2.1
2	A41	Other septicaemia	20	36	56	6.8	4.1
3	S06	Intracranial injury	43	8	51	6.2	2.7
4	T63	Toxic effect of contact with venomous animals	32	4	36	4.4	3.7
5	T60	Toxic effect of pesticides	11	22	33	4.0	1.4
6	B50	Plasmodium falciparum malaria	21	5	26	3.2	2.1
7	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	11	12	23	2.8	15.1
8	I50	Heart failure	9	12	21	2.5	1.8
9	A09	Diarrhoea and gastroenteritis of presumed infectious origin	9	5	14	1.7	1.1
10	B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	5	7	12	1.5	6.1
11	I64	Stroke, not specified as haemorrhage or infarction	4	8	12	1.5	3.2
12	S02	Fracture of skull and facial bones	12		12	1.5	3.1
13	D61	Other aplastic anaemias	7	4	11	1.3	15.1
14	I61	Intracerebral haemorrhage	11		11	1.3	2.6
15	T62	Toxic effect of other noxious substances eaten as food	3	8	11	1.3	1.0
16	I62	Other nontraumatic intracranial haemorrhage	10		10	1.2	1.1
17	G03	Meningitis due to other and unspecified causes	1	8	9	1.1	1.9
18	N04	Nephrotic syndrome	4	5	9	1.1	10.2
19	T65	Toxic effect of other and unspecified substances	1	8	9	1.1	1.2
20	I42	Cardiomyopathy	2	7	9	1.1	4.5
...	All other causes		167	184	351	42.5	6.2
	Total		459	366	825	100	4.8

**Table (26-2) Leading causes of Mortality in adolescents (15-19 year age group)
(2015)**

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	S09	Other and unspecified injuries of head	163	30	193	18.1	2.1
2	I50	Heart failure	43	31	74	6.9	2.4
3	S06	Intracranial injury	55	11	66	6.2	3.3
4	A41	Other septicaemia	27	38	65	6.1	3.5
5	T60	Toxic effect of pesticides	27	24	51	4.8	2.5
6	D61	Other aplastic anaemias	39		39	3.7	11.1
7	T63	Toxic effect of contact with venomous animals	25	5	30	2.8	12.1
8	R57	Shock, not elsewhere classified	19	5	24	2.3	1.6
9	J81	Pulmonary oedema	2	21	23	2.2	1.6
10	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	11	8	19	1.8	12.0
11	N18	Chronic renal failure	9	10	19	1.8	6.6
12	K35	Acute appendicitis	15	1	16	1.5	4.1
13	S02	Fracture of skull and facial bones	8	8	16	1.5	1.6
14	N17	Acute renal failure	15		15	1.4	1.3
15	B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	6	6	12	1.1	4.6
16	I62	Other nontraumatic intracranial haemorrhage	11	1	12	1.1	1.5
17	M32	Systemic lupus erythematosus		12	12	1.1	7.9
18	G03	Meningitis due to other and unspecified causes	9	2	11	1.0	3.2
19	T07	Unspecified multiple injuries	7	4	11	1.0	2.9
20	T14	Injury of unspecified body region	11		11	1.0	1.0
...		All other causes	195	151	346	32.5	5.5
		Total	697	368	1065	100	4.3

**Table (26-3) Leading causes of Mortality in adolescents (15-19 year age group)
(2016)**

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	S09	Other and unspecified injuries of head	108	18	126	13.1	2.4
2	S06	Intracranial injury	97	15	112	11.6	2.4
3	T60	Toxic effect of pesticides	65	19	84	8.7	2.0
4	T63	Toxic effect of contact with venomous animals	49	15	64	6.6	1.1
5	A41	Other septicaemia	31	18	49	5.1	4.7
6	B24	Unspecified human immunodeficiency virus [HIV] disease	12	16	28	2.9	1.5
7	K72	Hepatic failure, not elsewhere classified	16	11	27	2.8	1.8
8	I50	Heart failure	12	13	25	2.6	4.3
9	G93	Other disorders of brain	1	23	24	2.5	1.0
10	S02	Fracture of skull and facial bones	23	0	23	2.4	2.3
11	B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	0	22	22	2.3	2.7
12	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	3	17	20	2.1	2.9
13	J81	Pulmonary oedema	14	4	18	1.9	1.9
14	I51	Complications and ill-defined descriptions of heart disease	0	16	16	1.7	1.0
15	I10	Essential (primary) hypertension	14	1	15	1.6	1.5
16	S29	Other and unspecified injuries of thorax	15	0	15	1.6	1.0
17	T44	Poisoning by drugs primarily affecting the autonomic nervous system	0	15	15	1.6	1.0
18	D43	Neoplasm of uncertain or unknown behaviour of brain and central nervous system	0	14	14	1.5	1.2
19	S11	Open wound of neck	14	0	14	1.5	1.3
20	I61	Intracerebral haemorrhage	7	7	14	1.5	3.2
...	All other causes		135	103	238	24.7	7.7
Total			616	347	963	100.0	3.7

Table (27-1) Leading causes of Mortality in Elderly (65 year and above age group) (2014)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	A41	Other septicaemia	197	170	367	6.5	4.5
2	I50	Heart failure	164	189	354	6.3	4.1
3	I64	Stroke, not specified as haemorrhage or infarction	163	158	321	5.7	4.5
4	J44	Other chronic obstructive pulmonary disease	176	144	320	5.7	4.8
5	I21	Acute myocardial infarction	162	151	313	5.6	2.8
6	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	170	107	278	4.9	5.1
7	I25	Chronic ischaemic heart disease	97	113	209	3.7	4.6
8	C34	Malignant neoplasm of bronchus and lung	105	62	167	3.0	9.6
9	I61	Intracerebral haemorrhage	83	84	167	3.0	5.5
10	R57	Shock, not elsewhere classified	66	89	156	2.8	2.0
11	S09	Other and unspecified injuries of head	88	55	143	2.5	2.8
12	I51	Complications and ill-defined descriptions of heart disease	83	49	132	2.3	2.0
13	E14	Unspecified diabetes mellitus	51	67	118	2.1	7.5
14	I10	Essential (primary) hypertension	61	54	114	2.0	2.9
15	J69	Pneumonitis due to solids and liquids	62	48	110	2.0	6.2
16	C22	Malignant neoplasm of liver and intrahepatic bile ducts	61	44	105	1.9	7.4
17	N18	Chronic renal failure	42	61	103	1.8	6.7
18	J96	Respiratory failure, not elsewhere classified	50	37	87	1.5	10.9
19	K74	Fibrosis and cirrhosis of liver	40	37	77	1.4	5.2
20	K92	Other diseases of digestive system	33	30	63	1.1	2.8
...	All other causes		997	936	1932	34.3	6.0
Total			2951	2685	5636	100	5.2

Table (27-2) Leading causes of Mortality in Elderly (65 year and above age group) (2015)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	A41	Other septicaemia	295	239	533	8.3	4.5
2	I50	Heart failure	262	200	462	7.2	4.9
3	I64	Stroke, not specified as haemorrhage or infarction	168	210	378	5.9	3.8
4	J44	Other chronic obstructive pulmonary disease	190	169	359	5.6	4.5
5	R57	Shock, not elsewhere classified	126	133	259	4.0	3.6
6	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	182	74	255	4.0	6.8
7	I25	Chronic ischaemic heart disease	87	152	239	3.7	3.8
8	I21	Acute myocardial infarction	121	62	183	2.8	2.7
9	I10	Essential (primary) hypertension	84	97	181	2.8	3.6
10	S09	Other and unspecified injuries of head	80	98	178	2.8	2.4
11	C34	Malignant neoplasm of bronchus and lung	90	67	157	2.4	9.3
12	E14	Unspecified diabetes mellitus	44	91	135	2.1	5.0
13	J96	Respiratory failure, not elsewhere classified	83	47	130	2.0	4.4
14	I61	Intracerebral haemorrhage	68	57	125	1.9	3.5
15	J69	Pneumonitis due to solids and liquids	85	40	125	1.9	12.5
16	I51	Complications and ill-defined descriptions of heart disease	50	59	110	1.7	4.1
17	C22	Malignant neoplasm of liver and intrahepatic bile ducts	68	39	107	1.7	8.9
18	K92	Other diseases of digestive system	76	27	103	1.6	2.8
19	I62	Other nontraumatic intracranial haemorrhage	65	30	96	1.5	2.2
20	K74	Fibrosis and cirrhosis of liver	57	36	94	1.5	10.0
...	All other causes		1307	940	2246	34.8	6.5
Total			3588	2867	6455	100	5.4

Table (27-3) Leading causes of Mortality in Elderly (65 year and above age group) (2016)

Sr. No.	Code	Description	Male	Female	Total	% of Total cases	Avg. duration of stay
1	I50	Heart failure	251	375	626	8.5	5.1
2	I64	Stroke, not specified as haemorrhage or infarction	220	265	485	6.6	4.2
3	A41	Other septicaemia	184	226	410	5.5	5.5
4	J44	Other chronic obstructive pulmonary disease	217	166	383	5.2	5.0
5	I25	Chronic ischaemic heart disease	191	174	365	4.9	4.8
6	I21	Acute myocardial infarction	138	215	353	4.8	2.2
7	I10	Essential (primary) hypertension	146	149	295	4.0	3.0
8	I61	Intracerebral haemorrhage	139	110	249	3.4	3.4
9	C34	Malignant neoplasm of bronchus and lung	134	102	236	3.2	7.6
10	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	126	98	224	3.0	4.9
11	S09	Other and unspecified injuries of head	101	81	182	2.5	2.2
12	J96	Respiratory failure, not elsewhere classified	87	68	155	2.1	5.8
13	E14	Unspecified diabetes mellitus	46	87	133	1.8	5.7
14	I63	Cerebral infarction	70	56	126	1.7	5.8
15	K74	Fibrosis and cirrhosis of liver	64	58	122	1.6	7.3
16	J69	Pneumonitis due to solids and liquids	62	56	118	1.6	8.2
17	S06	Intracranial injury	65	41	106	1.4	2.7
18	K92	Other diseases of digestive system	65	37	102	1.4	2.6
19	J81	Pulmonary oedema	46	51	97	1.3	3.5
20	I62	Other nontraumatic intracranial haemorrhage	81	13	94	1.3	1.8
...	All other causes		1241	1296	2537	34.3	6.2
Total			3674	3724	7398	100.0	5.1

Table (28-1) Causes of Maternal Mortality (2014)

Sr. No.	ICD-10 code	Descriptions	Total
1	O72	Postpartum haemorrhage	67
2	O06	Unspecified abortion	48
3	O75	Other complications of labour and delivery, not elsewhere classified	40
4	O15	Eclampsia	36
5	O14	Gestational [pregnancy-induced] hypertension with significant proteinuria	35
6	O05	Other abortion	34
7	O95	Obstetric death of unspecified cause	21
8	O46	Antepartum haemorrhage, not elsewhere classified	12
9	O07	Failed attempted abortion	9
10	O08	Complications following abortion and ectopic and molar pregnancy	9
11	O01	Hydatidiform mole	6
12	O90	Complications of the puerperium, not elsewhere classified	6
13	O00	Ectopic pregnancy	5
14	O73	Retained placenta and membranes, without haemorrhage	5
		Others	34
		Total	367

Table (28-2) Causes of Maternal Mortality (2015)

Sr. No	ICD-10 code	Descriptions	Number
1	O75	Other complications of labour and delivery, not elsewhere classified	73
2	O06	Unspecified abortion	53
3	O14	Gestational [pregnancy-induced] hypertension with significant proteinuria	43
4	O15	Eclampsia	26
5	O36	Maternal care for other known or suspected fetal problems	21
6	O07	Failed attempted abortion	18
7	O95	Obstetric death of unspecified cause	18
8	O08	Complications following abortion and ectopic and molar pregnancy	15
9	O90	Complications of the puerperium, not elsewhere classified	15
10	O85	Puerperal sepsis	13
11	O34	Maternal care for known or suspected abnormality of pelvic organs	10
12	O72	Postpartum haemorrhage	10
13	O99	Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium	9
14	O42	Premature rupture of membranes	6
		Others	31
		Total	361

Table (28-3) Causes of Maternal Mortality (2016)

Sr. No	ICD-10 code	Descriptions	Number
1	O06	Unspecified abortion	73
2	O72	Postpartum haemorrhage	39
3	O75	Other complications of labour and delivery, not elsewhere classified	39
4	O14	Gestational [pregnancy-induced] hypertension with significant proteinuria	30
5	O95	Obstetric death of unspecified cause	29
6	O63	Long labour	20
7	O08	Complications following abortion and ectopic and molar pregnancy	16
8	O15	Eclampsia	16
9	O85	Puerperal sepsis	14
10	O98	Maternal infectious and parasitic diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium	12
11	O45	Premature separation of placenta [abruptio placentae]	11
12	O42	Premature rupture of membranes	9
13	O88	Obstetric embolism	5
14	O99	Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium	5
		Others	9
		Total	327

Figure (53) and (54) indicates the mortality rate of under- five, infants and neonates in public hospitals during 2013 and maternal mortality ratio from 2010 to 2013.

Figure (53) Institutional Under 5 Mortality Rate, Infant Mortality Rate, Neonatal Mortality Rate in Public Hospitals (2010-2016)

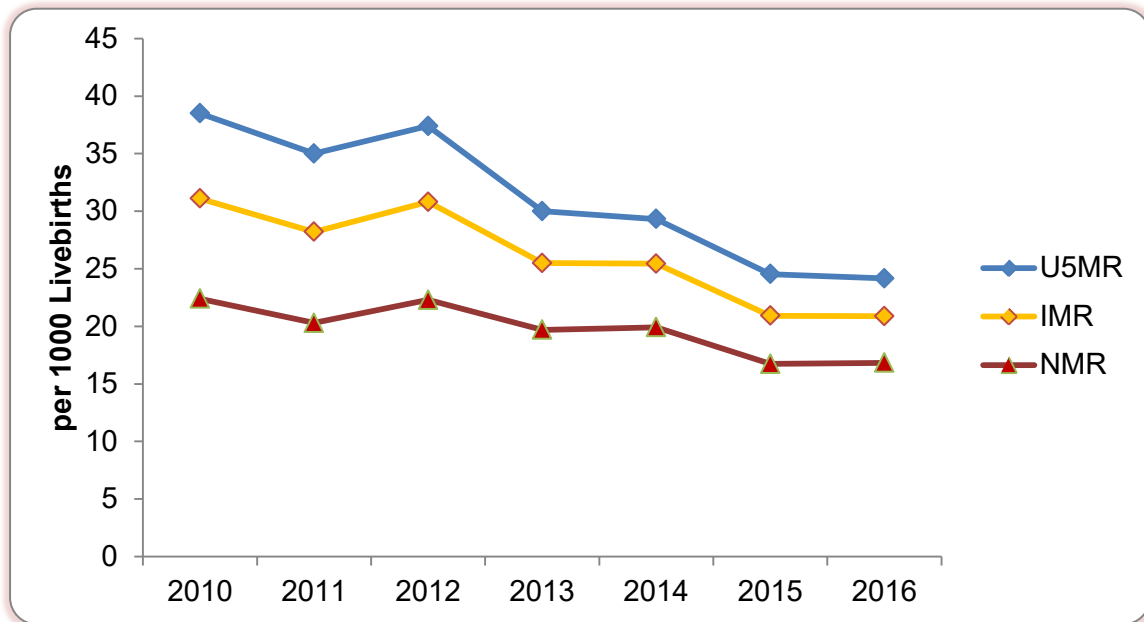
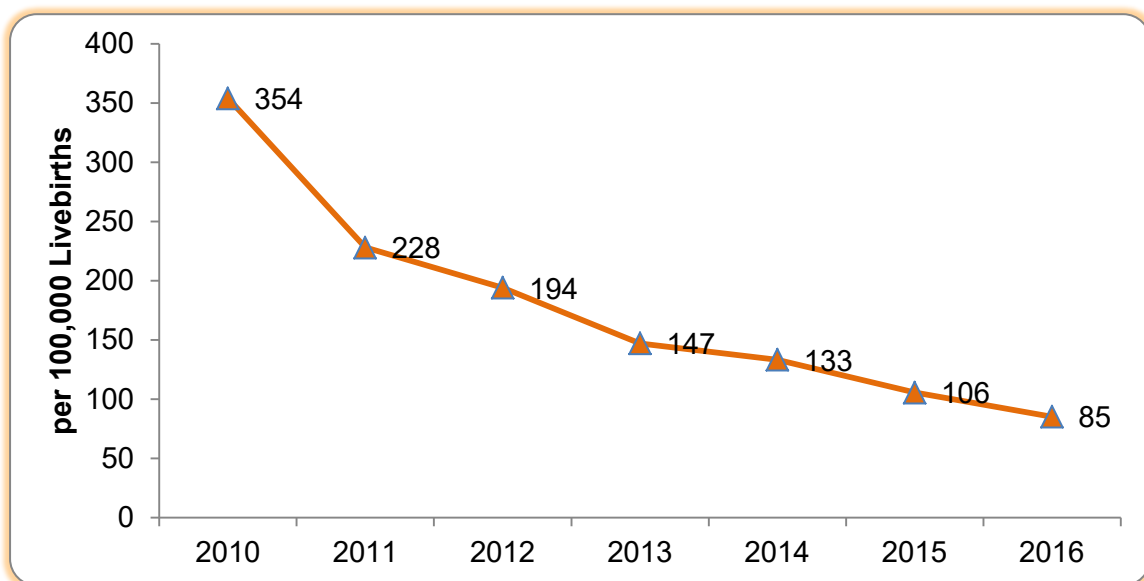


Figure (54) Institutional Maternal Mortality Ratio in Public Hospitals (2010-2016)



(C) MORBIDITY AND MORTALITY STATISTICS OF SPECIFIC DISEASE GROUPS

- I. Communicable Diseases
- II. Non-Communicable Diseases
 1. Cardiovascular Diseases (I00-I99)
 2. Cancer(C00-C97)
 3. Diabetes Mellitus (E10-E14)
 4. Chronic Respiratory Diseases(J30-J98)
- III. Injuries, poisoning and certain other consequences of external causes (S00-T98)

I. Communicable Diseases

Table (29) Leading causes of Morbidity among Male Communicable Disease Patients (2014-2016)

2014		2015		2016	
Causes	%	Causes	%	Causes	%
1 Diarrhoea and gastroenteritis of presumed infectious origin	33.9	Diarrhoea and gastroenteritis of presumed infectious origin	31.6	Diarrhoea and gastroenteritis of presumed infectious origin	34.4
2 Viral infection of unspecified site	23.5	Viral infection of unspecified site	25.9	Viral infection of unspecified site	31.2
3 Respiratory tuberculosis, not confirmed bacteriologically or histologically	9.2	Dengue haemorrhagic fever	16.3	Respiratory tuberculosis, not confirmed bacteriologically or histologically	8.9
4 Dengue haemorrhagic fever	8.4	Respiratory tuberculosis, not confirmed bacteriologically or histologically	7.2	Dengue haemorrhagic fever	4.2
5 Unspecified malaria	4.7	Unspecified malaria	3.2	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	2.6
6 Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	2.7	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	2.0	Unspecified malaria	2.6
7 Unspecified human immunodeficiency virus [HIV] disease	2.3	Unspecified human immunodeficiency virus [HIV] disease	1.6	Typhoid and paratyphoid fevers	2.3
8 Typhoid and paratyphoid fevers	2.1	Typhoid and paratyphoid fevers	1.6	Unspecified human immunodeficiency virus [HIV] disease	1.9
9 Plasmodium falciparum malaria	2.0	Other septicaemia	1.4	Other septicaemia	1.8
10 Unspecified viral hepatitis	1.7	Plasmodium falciparum malaria	1.3	Unspecified viral hepatitis	1.5

Table (30) Leading causes of Morbidity among Female Communicable Disease Patients (2014-2016)

2014		2015		2016	
Causes	%	Causes	%	Causes	%
1 Diarrhoea and gastroenteritis of presumed infectious origin	35.7	Diarrhoea and gastroenteritis of presumed infectious origin	31.2	Diarrhoea and gastroenteritis of presumed infectious origin	35.5
2 Viral infection of unspecified site	26.2	Viral infection of unspecified site	28.7	Viral infection of unspecified site	34.4
3 Dengue haemorrhagic fever	10.1	Dengue haemorrhagic fever	19.6	Respiratory tuberculosis, not confirmed bacteriologically or histologically	5.7
4 Respiratory tuberculosis, not confirmed bacteriologically or histologically	6.0	Respiratory tuberculosis, not confirmed bacteriologically or histologically	4.3	Dengue haemorrhagic fever	5.3
5 Unspecified malaria	3.6	Unspecified malaria	2.3	Typhoid and paratyphoid fevers	2.7
6 Typhoid and paratyphoid fevers	2.1	Typhoid and paratyphoid fevers	1.7	Unspecified malaria	1.9
7 Unspecified human immunodeficiency virus [HIV] disease	1.9	Other septicaemia	1.4	Other septicaemia	1.8
8 Other septicaemia	1.8	Unspecified human immunodeficiency virus [HIV] disease	1.4	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	1.6
9 Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	1.7	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	1.2	Unspecified human immunodeficiency virus [HIV] disease	1.4
10 Plasmodium falciparum malaria	1.5	Unspecified viral hepatitis	1.0	Unspecified viral hepatitis	1.2

Table (31) Leading causes of Mortality among Male Communicable Disease Patients (2014-2016)

2014		2015		2016	
Causes	%	Causes	%	Causes	%
1 Other septicaemia	32.4	Other septicaemia	39.5	Other septicaemia	36.0
2 Respiratory tuberculosis, not confirmed bacteriologically or histologically	18.6	Respiratory tuberculosis, not confirmed bacteriologically or histologically	16.7	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	19.1
3 Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	16.2	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	14.1	Respiratory tuberculosis, not confirmed bacteriologically or histologically	15.0
4 Unspecified human immunodeficiency virus [HIV] disease	6.7	Unspecified human immunodeficiency virus [HIV] disease	5.8	Unspecified human immunodeficiency virus [HIV] disease	6.3
5 Plasmodium falciparum malaria	4.2	Diarrhoea and gastroenteritis of presumed infectious origin	3.8	Diarrhoea and gastroenteritis of presumed infectious origin	4.2
6 Respiratory tuberculosis, bacteriologically and histologically confirmed	2.8	Respiratory tuberculosis, bacteriologically and histologically confirmed	2.7	Tuberculosis of nervous system	2.1
7 Diarrhoea and gastroenteritis of presumed infectious origin	2.7	Plasmodium falciparum malaria	1.8	Human immunodeficiency virus [HIV] disease resulting in other conditions	2.1
8 Human immunodeficiency virus [HIV] disease resulting in other specified diseases	1.9	Dengue haemorrhagic fever	1.7	Other viral diseases, not elsewhere classified	1.3
9 Tuberculosis of nervous system	1.8	Tuberculosis of nervous system	1.6	Respiratory tuberculosis, bacteriologically and histologically confirmed	1.3
10 Human immunodeficiency virus [HIV] disease resulting in other conditions	1.5	Human immunodeficiency virus [HIV] disease resulting in other conditions	1.6	Human immunodeficiency virus [HIV] disease resulting in other specified diseases	1.3

Table (32) Leading causes of Mortality among Female Communicable Disease Patients (2014-2016)

2014		2015		2016	
Causes	%	Causes	%	Causes	%
1 Other septicaemia	44.6	Other septicaemia	43.4	Other septicaemia	45.8
2 Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	14.6	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	11.6	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	16.1
3 Respiratory tuberculosis, not confirmed bacteriologically or histologically	10.7	Respiratory tuberculosis, not confirmed bacteriologically or histologically	9.0	Respiratory tuberculosis, not confirmed bacteriologically or histologically	11.9
4 Unspecified human immunodeficiency virus [HIV] disease	6.8	Unspecified human immunodeficiency virus [HIV] disease	6.9	Unspecified human immunodeficiency virus [HIV] disease	6.1
5 Diarrhoea and gastroenteritis of presumed infectious origin	4.8	Diarrhoea and gastroenteritis of presumed infectious origin	6.9	Diarrhoea and gastroenteritis of presumed infectious origin	4.1
6 Plasmodium falciparum malaria	2.5	Dengue haemorrhagic fever	5.0	Viral infection of unspecified site	2.6
7 Respiratory tuberculosis, bacteriologically and histologically confirmed	2.4	Respiratory tuberculosis, bacteriologically and histologically confirmed	2.3	Miliary tuberculosis	1.8
8 Tuberculosis of nervous system	2.2	Viral infection of unspecified site	1.8	Human immunodeficiency virus [HIV] disease resulting in other conditions	1.6
9 Human immunodeficiency virus [HIV] disease resulting in other specified diseases	1.4	Plasmodium falciparum malaria	1.6	Tuberculosis of nervous system	1.4
10 Dengue haemorrhagic fever	1.3	Typhoid and paratyphoid fevers	1.4	Dengue haemorrhagic fever	1.0

II. Non-Communicable Diseases

1. Cardiovascular Diseases (I00-I99)

Figure (55) Percent Distribution of All cases of Cardiovascular Diseases (2014)

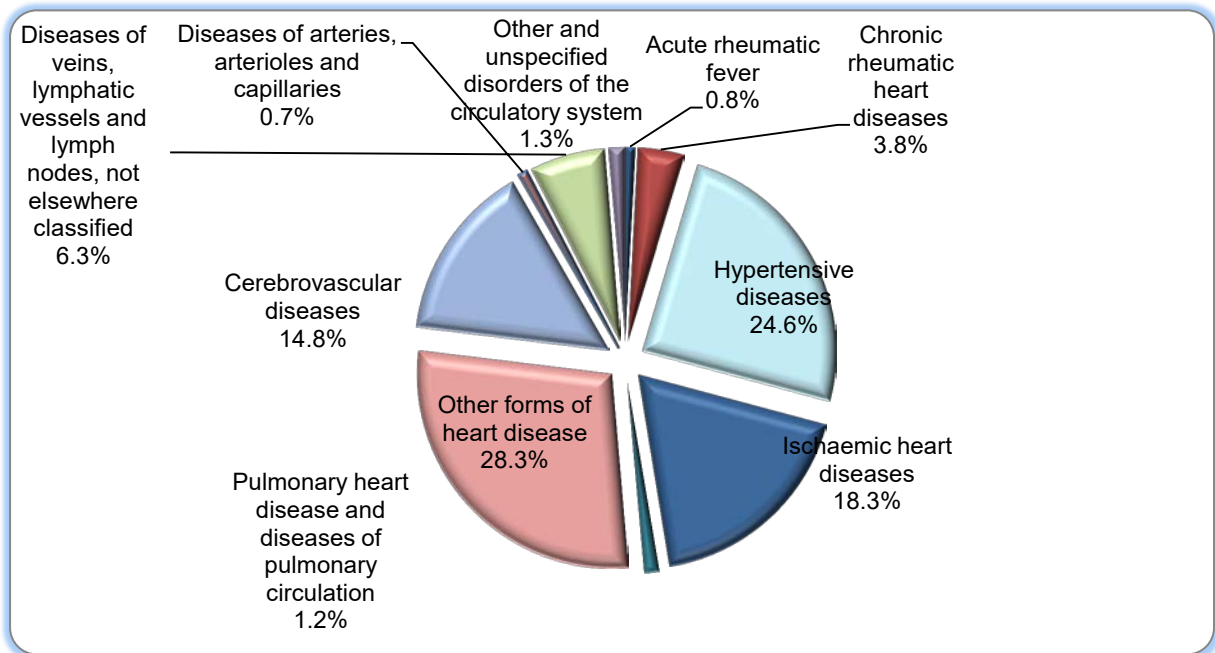


Figure (56) Percent Distribution of All cases of Cardiovascular Diseases (2015)

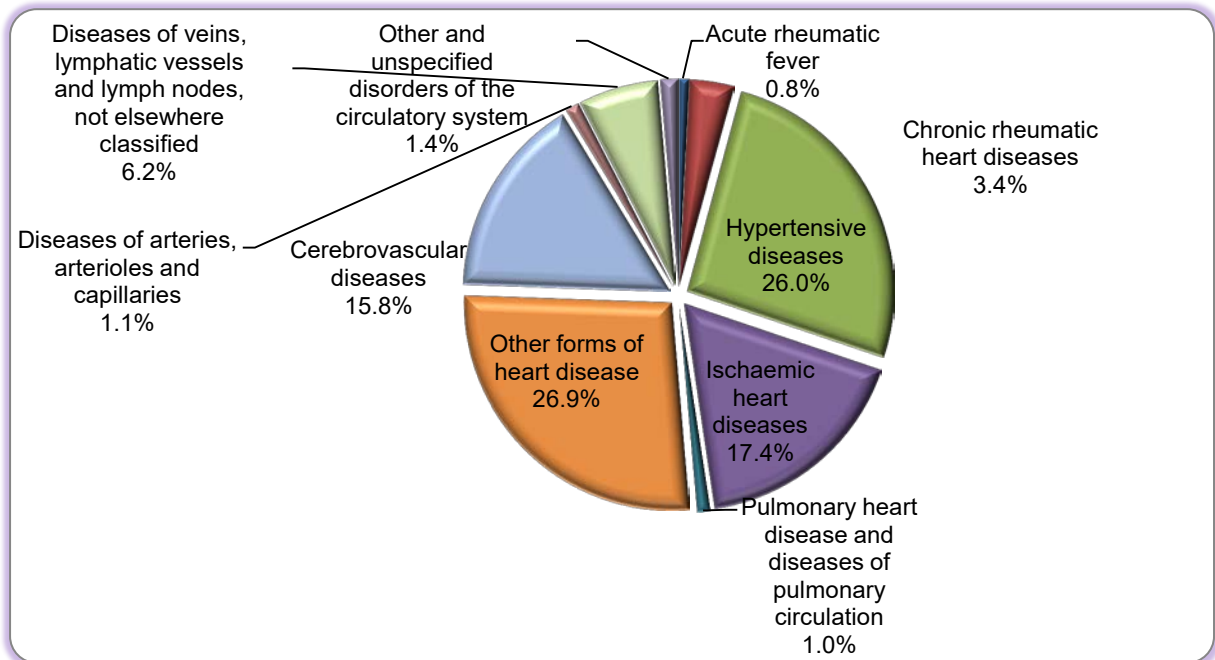


Figure (57) Percent Distribution of All cases of Cardiovascular Diseases (2016)

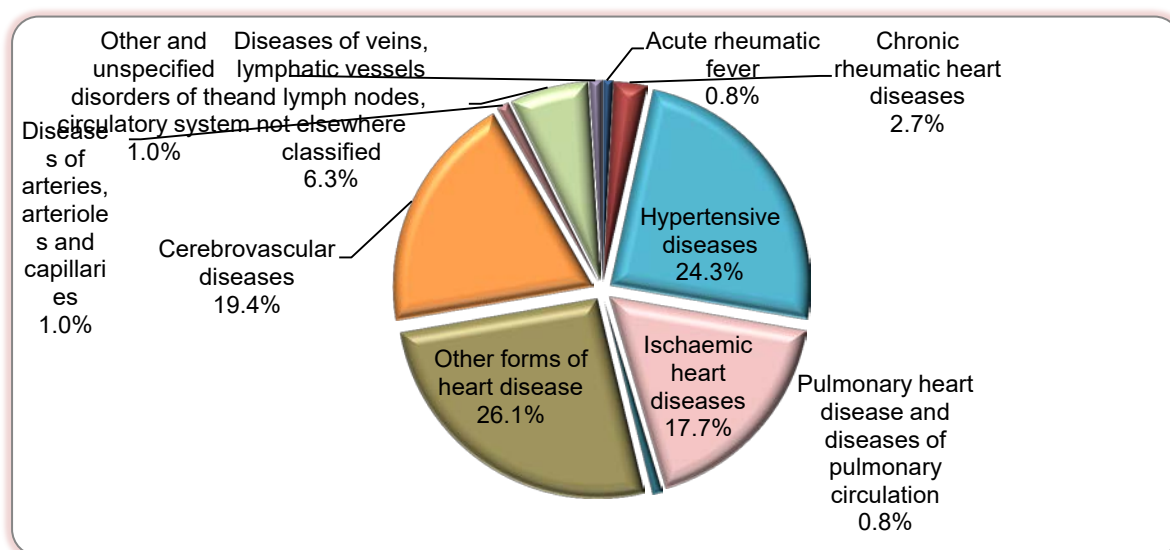


Table (33) Ten Leading causes of Morbidity among Male CVD Patients (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Essential (primary) hypertension	21.0	Essential (primary) hypertension	22.6	Essential (primary) hypertension	20.8
2	Heart failure	13.8	Heart failure	13.5	Stroke, not specified as haemorrhage or infarction	15.9
3	Stroke, not specified as haemorrhage or infarction	11.3	Stroke, not specified as haemorrhage or infarction	12.4	Heart failure	12.8
4	Chronic ischaemic heart disease	9.8	Chronic ischaemic heart disease	9.4	Chronic ischaemic heart disease	8.5
5	Haemorrhoids	6.2	Haemorrhoids	6.0	Acute myocardial infarction	6.1
6	Acute myocardial infarction	5.3	Acute myocardial infarction	4.8	Haemorrhoids	6.0
7	Complications and ill-defined descriptions of heart disease	5.1	Complications and ill-defined descriptions of heart disease	4.7	Intracerebral haemorrhage	4.7
8	Intracerebral haemorrhage	3.8	Intracerebral haemorrhage	3.4	Complications and ill-defined descriptions of heart disease	3.1
9	Rheumatic mitral valve diseases	2.3	Rheumatic mitral valve diseases	2.5	Cardiomyopathy	2.1
10	Cardiomyopathy	1.8	Cerebral infarction	2.0	Cerebral infarction	2.1

Table (34) Ten Leading causes of Morbidity among Female CVD Patients (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Essential (primary) hypertension	26.3	Essential (primary) hypertension	27.6	Essential (primary) hypertension	26.4
2	Heart failure	17.1	Heart failure	16.7	Heart failure	17.3
3	Chronic ischaemic heart disease	15.6	Chronic ischaemic heart disease	15.0	Chronic ischaemic heart disease	14.1
4	Stroke, not specified as haemorrhage or infarction	7.1	Stroke, not specified as haemorrhage or infarction	8.1	Stroke, not specified as haemorrhage or infarction	10.1
5	Complications and ill-defined descriptions of heart disease	4.0	Complications and ill-defined descriptions of heart disease	3.4	Acute myocardial infarction	3.7
6	Haemorrhoids	2.9	Haemorrhoids	3.0	Haemorrhoids	3.1
7	Acute myocardial infarction	2.9	Acute myocardial infarction	3.0	Atrial fibrillation and flutter	2.5
8	Rheumatic mitral valve diseases	2.4	Rheumatic mitral valve diseases	2.5	Complications and ill-defined descriptions of heart disease	2.2
9	Paroxysmal tachycardia	2.0	Atrial fibrillation and flutter	2.1	Paroxysmal tachycardia	2.1
10	Atrial fibrillation and flutter	1.9	Paroxysmal tachycardia	1.6	Rheumatic mitral valve diseases	2.0

Figure (58) Percent Distribution of Deaths of Cardiovascular Diseases (2014)

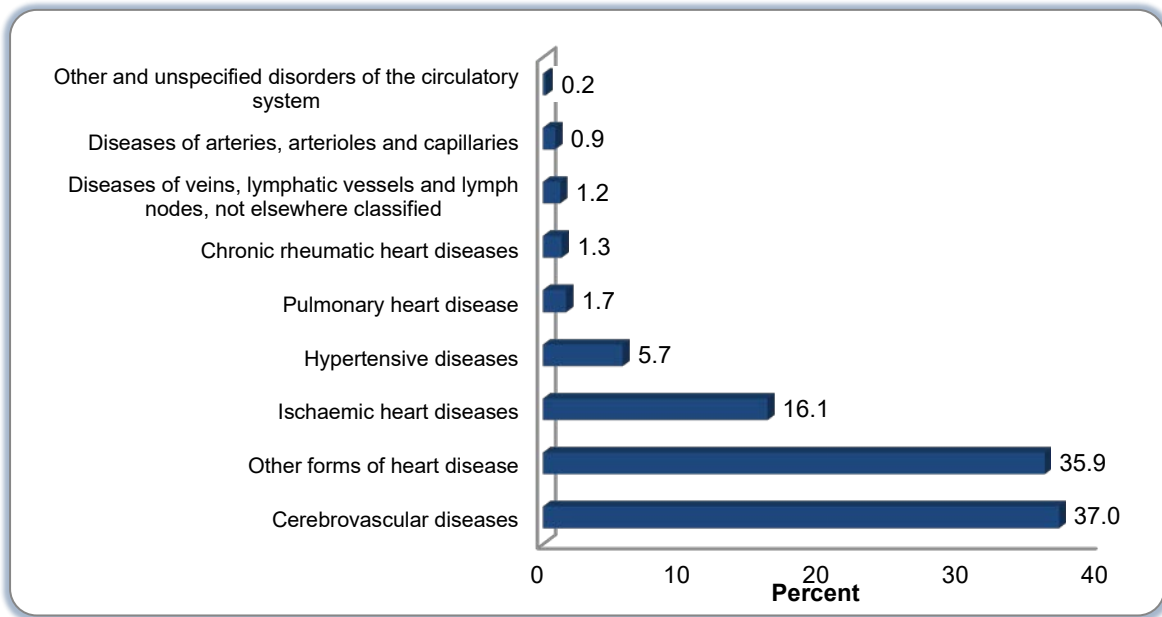


Figure (59) Percent Distribution of Deaths of Cardiovascular Diseases (2015)

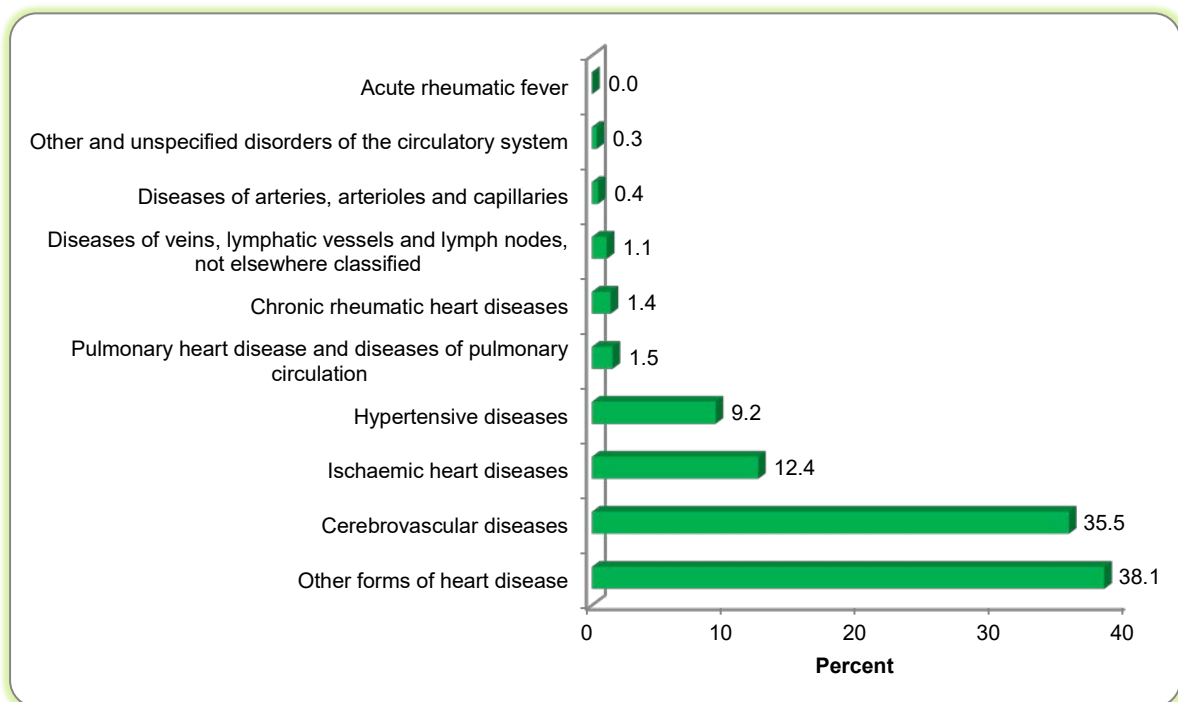


Figure (60) Percent Distribution of Deaths of Cardiovascular Diseases (2016)

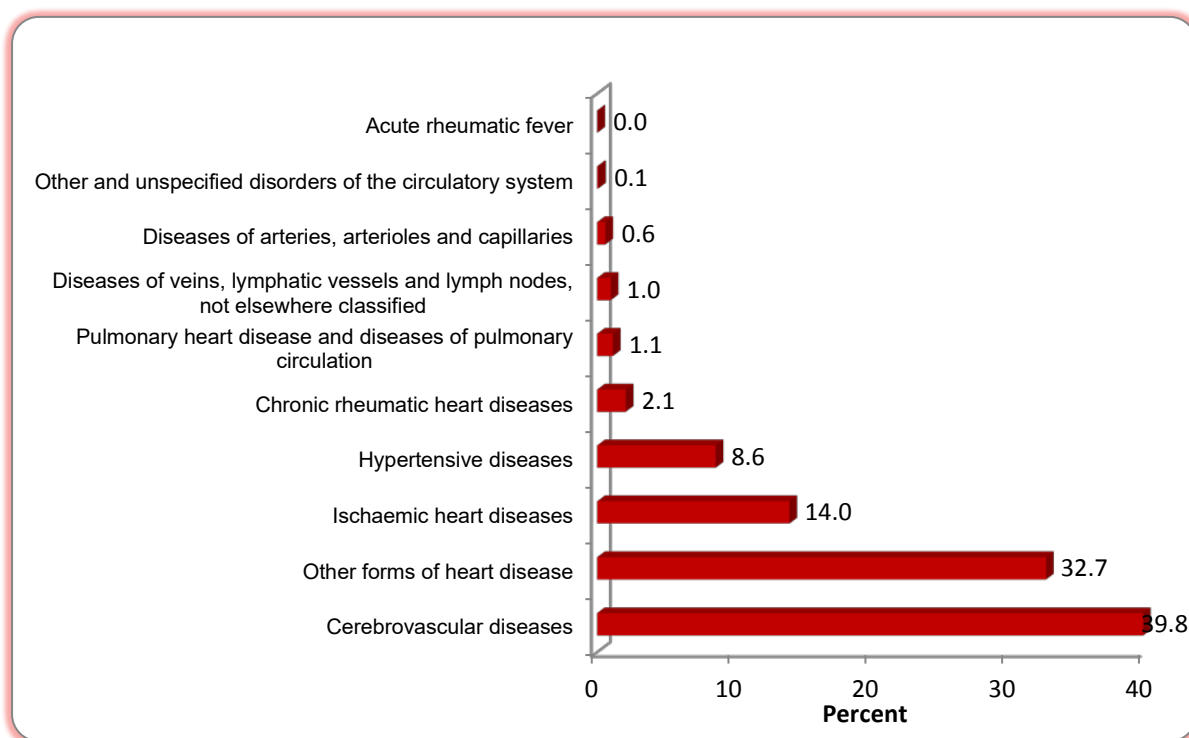


Table (35) Ten Leading causes of Mortality among Male CVD Patients (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Stroke, not specified as haemorrhage or infarction	16.7	Heart failure	17.4	Stroke, not specified as haemorrhage or infarction	15.8
2	Intracerebral haemorrhage	15.4	Stroke, not specified as haemorrhage or infarction	15.4	Intracerebral haemorrhage	15.4
3	Heart failure	15.1	Intracerebral haemorrhage	12.7	Heart failure	14.4
4	Acute myocardial infarction	9.4	Essential (primary) hypertension	8.5	Essential (primary) hypertension	7.8
5	Complications and ill-defined descriptions of heart disease	6.8	Acute myocardial infarction	5.9	Other nontraumatic intracranial haemorrhage	7.2
6	Essential (primary) hypertension	5.5	Other nontraumatic intracranial haemorrhage	5.3	Acute myocardial infarction	6.0
7	Chronic ischaemic heart disease	5.5	Complications and ill-defined descriptions of heart disease	5.1	Chronic ischaemic heart disease	5.0
8	Other nontraumatic intracranial haemorrhage	5.0	Chronic ischaemic heart disease	4.9	Cardiomyopathy	4.7
9	Cardiomyopathy	3.7	Cardiomyopathy	3.0	Cerebral infarction	3.1
10	Cerebral infarction	2.1	Cerebral infarction	2.8	Subarachnoid haemorrhage	2.0

Table (36) Ten Leading causes of Mortality among Female CVD Patients (2014-2016)

2014		2015		2016	
Causes	%	Causes	%	Causes	%
1 Heart failure	20.3	Heart failure	22.0	Heart failure	20.2
2 Stroke, not specified as haemorrhage or infarction	14.0	Stroke, not specified as haemorrhage or infarction	16.9	Stroke, not specified as haemorrhage or infarction	16.5
3 Acute myocardial infarction	9.9	Essential (primary) hypertension	8.6	Acute myocardial infarction	9.1
4 Intracerebral haemorrhage	9.5	Chronic ischaemic heart disease	7.8	Intracerebral haemorrhage	8.9
5 Chronic ischaemic heart disease	7.6	Intracerebral haemorrhage	7.7	Essential (primary) hypertension	8.6
6 Complications and ill-defined descriptions of heart disease	5.2	Acute myocardial infarction	6.0	Chronic ischaemic heart disease	8.2
7 Essential (primary) hypertension	5.1	Complications and ill-defined descriptions of heart disease	5.6	Atrial fibrillation and flutter	3.7
8 Cardiomyopathy	2.8	Other nontraumatic intracranial haemorrhage	2.7	Complications and ill-defined descriptions of heart disease	2.9
9 Other nontraumatic intracranial haemorrhage	2.7	Cerebral infarction	2.0	Cerebral infarction	2.6
10 Cerebral infarction	2.4	Atrial fibrillation and flutter	1.7	Other nontraumatic intracranial haemorrhage	2.2

2. Cancer

Figure (61) Percent Distribution of All Cases of Malignant Neoplasm (2014)

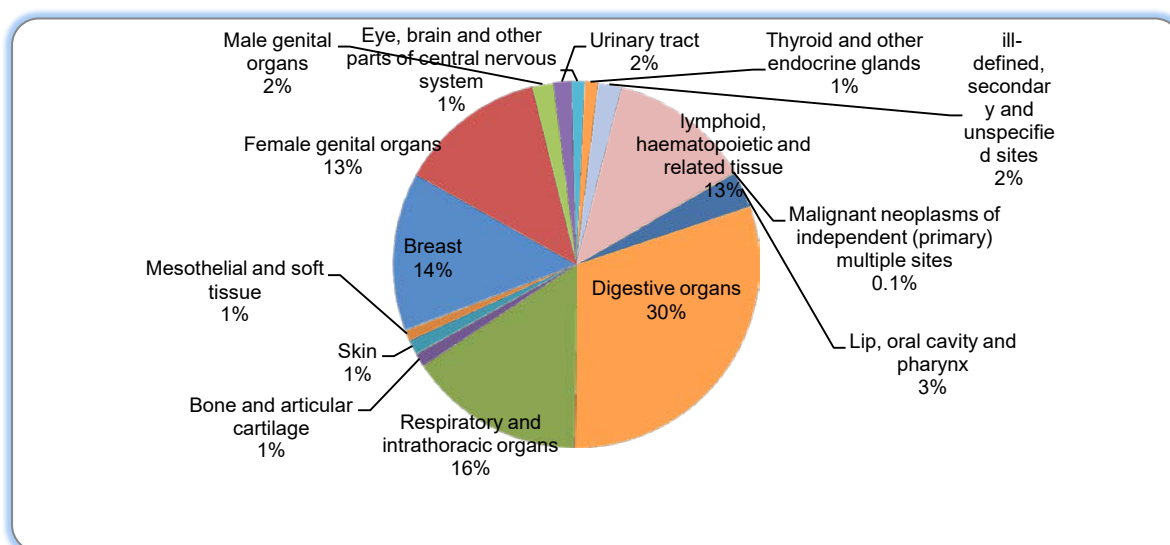


Figure (62) Percent Distribution of All Cases of Malignant Neoplasm (2015)

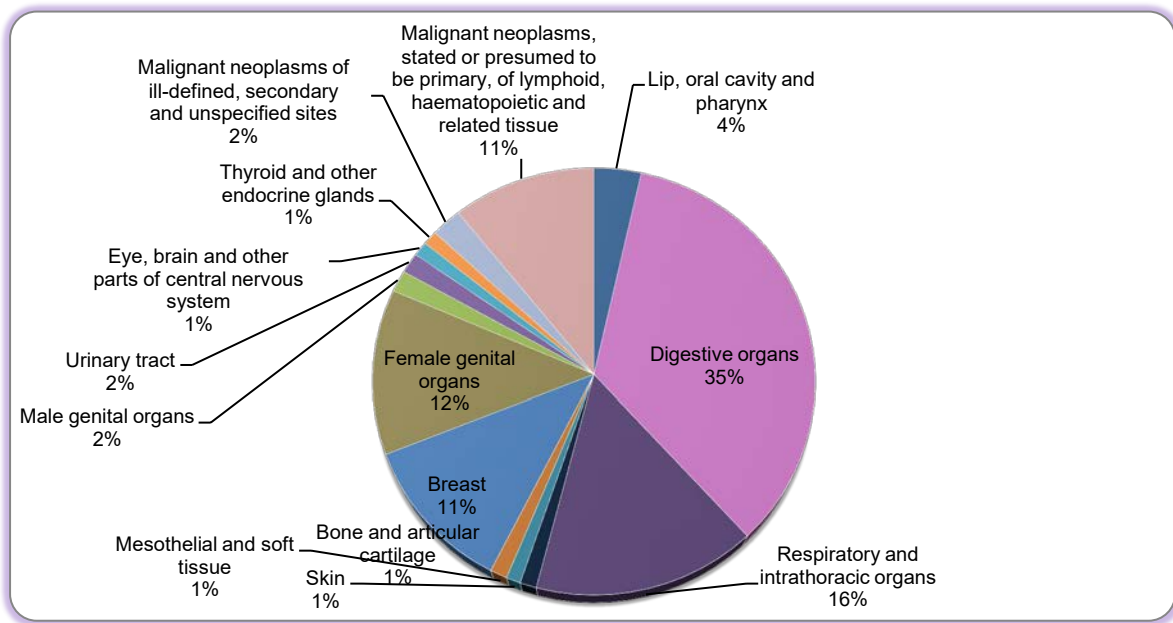


Figure (63) Percent Distribution of All Cases of Malignant Neoplasm (2016)

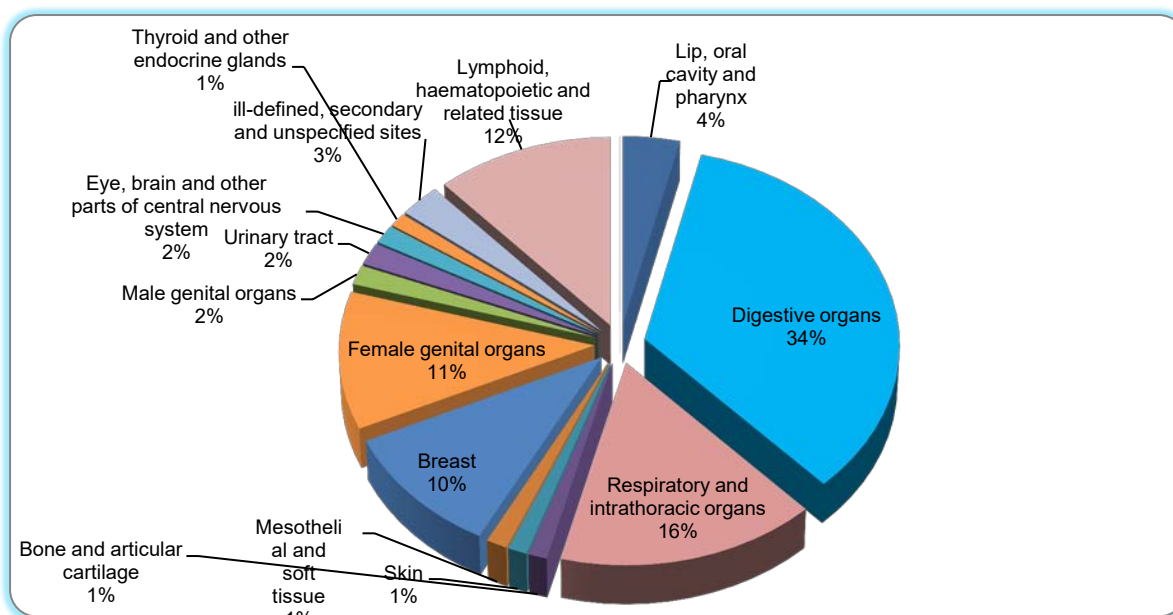


Table (37) Ten Leading causes of Morbidity among Male Cancer Patients (2014-2016)

2014		2015		2016	
Causes	%	Causes	%	Causes	%
1 Bronchus and lung	18.8	Bronchus and lung	18.1	Bronchus and lung	17.4
2 Liver and intrahepatic bile ducts	14.6	Liver and intrahepatic bile ducts	15.2	Liver and intrahepatic bile ducts	14.4
3 Stomach	10.0	Stomach	11.4	Stomach	9.8
4 Non-Hodgkin's lymphoma	5.9	Colon	5.8	Rectum	5.4
5 Colon	4.5	Rectum	4.8	Colon	5.1
6 Oesophagus	4.3	Oesophagus	4.7	Oesophagus	4.6
7 rectum	4.2	Non-Hodgkin's lymphoma	4.0	Larynx	4.5
8 Myeloid leukaemia	3.6	Larynx	3.6	Non-Hodgkin's lymphoma	3.8
9 Larynx	3.2	Myeloid leukaemia	3.5	Myeloid leukaemia	3.4
10 Penis	2.8	Lymphoid leukaemia	2.9	Lymphoid leukaemia	2.5

Table (38) Ten Leading causes of Morbidity among Female cancer patients (2014-2016)

2014		2015		2016	
Causes	%	Causes	%	Causes	%
1 Breast	24.6	Breast	20.9	Breast	19.6
2 Cervix uteri	14.6	Cervix uteri	13.3	Cervix uteri	12.4
3 Bronchus and lung	8.2	Bronchus and lung	8.7	Bronchus and lung	8.7
4 Stomach	7.0	Stomach	7.0	Stomach	6.7
5 Ovary	5.3	Colon	6.0	Colon	6.1
6 Liver and intrahepatic bile ducts	4.9	Ovary	5.6	Liver and intrahepatic bile ducts	5.7
7 Colon	4.3	Liver and intrahepatic bile ducts	5.2	Ovary	5.7
8 Rectum	3.6	Rectum	4.6	Rectum	5.2
9 Non-Hodgkin's lymphoma	3.5	Non-Hodgkin's lymphoma	2.9	Myeloid leukaemia	3.1
10 Myeloid leukaemia	3.0	Myeloid leukaemia	2.8	Non-Hodgkin's lymphoma	2.8

Figure (64) Percent Distribution of Deaths of Malignant Neoplasm (2014)

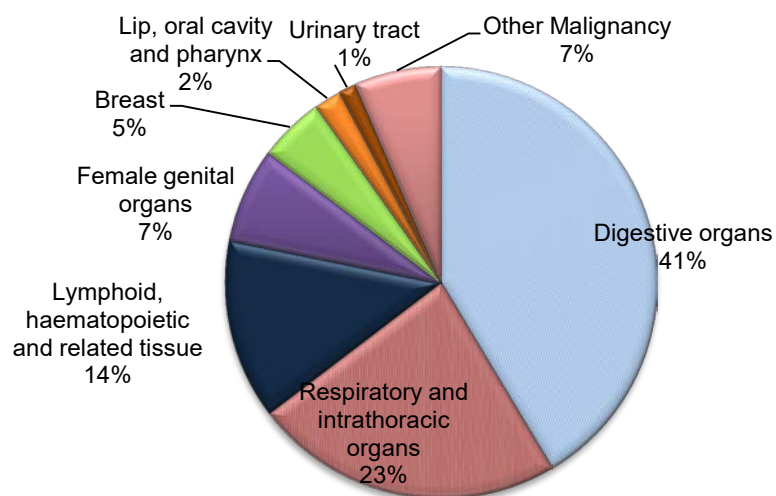


Figure (65) Percent Distribution of Deaths of Malignant Neoplasm (2015)

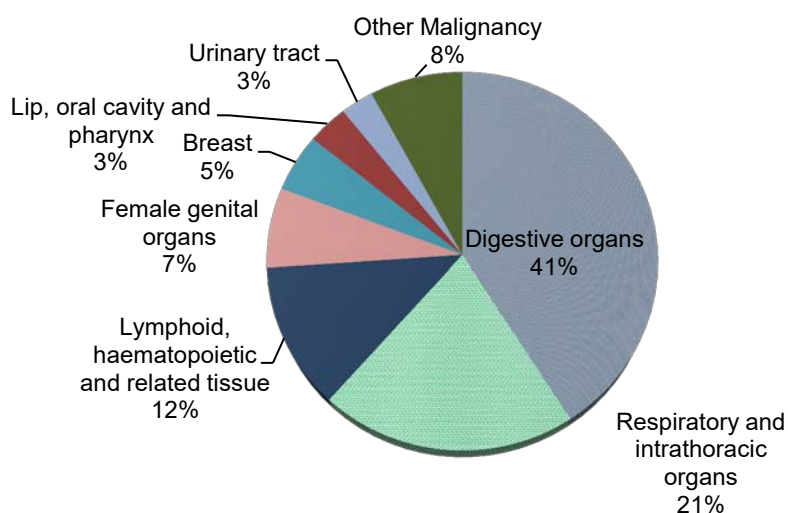


Figure (66) Percent Distribution of Deaths of Malignant Neoplasm (2016)

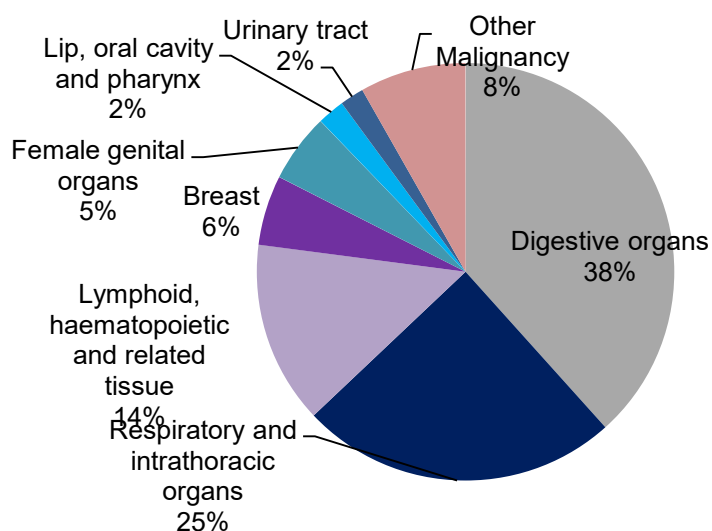


Table (39) Ten Leading causes of Mortality among Male cancer patients (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Liver and intrahepatic bile ducts	31.1	Liver and intrahepatic bile ducts	30.9	Bronchus and lung	27.0
2	Bronchus and lung	26.5	Bronchus and lung	21.7	Liver and intrahepatic bile ducts	25.0
3	Stomach	6.3	Stomach	6.9	Stomach	5.6
4	Oesophagus	5.3	Myeloid leukaemia	3.7	Myeloid leukaemia	5.5
5	Myeloid leukaemia	5.2	Kidney	3.6	Oesophagus	4.5
6	Non-Hodgkin's lymphoma	3.2	Non-Hodgkin's lymphoma	3.5	Colon	3.4
7	Leukaemia of unspecified cell type	2.6	Colon	3.0	Non-Hodgkin's lymphoma	3.2
8	Lymphoid leukaemia	1.8	Oesophagus	2.8	Rectum	2.4
9	Colon	1.4	Rectum	2.3	Lymphoid leukaemia	2.3
10	Bladder	1.4	Pancreas	2.2	kidney	1.6

Table (40) Ten Leading causes of Mortality among Female cancer patients (2014-2016)

2014		2015		2016	
Causes	%	Causes	%	Causes	%
1 Bronchus and lung	16.7	Bronchus and lung	15.4	Bronchus and lung	19.1
2 Liver and intrahepatic bile ducts	16.0	Breast	12.0	Liver and intrahepatic bile ducts	13.2
3 Cervix uteri	11.3	Liver and intrahepatic bile ducts	11.6	Breast	11.7
4 Breast	11.1	Cervix uteri	9.6	Stomach	8.6
5 Stomach	6.1	Stomach	9.5	Cervix uteri	8.2
6 Myeloid leukaemia	6.1	Myeloid leukaemia	6.0	Myeloid leukaemia	6.4
7 Colon	3.8	Non-Hodgkin's lymphoma	4.7	Non-Hodgkin's lymphoma	5.0
8 Ovary	3.3	Placenta	3.6	Colon	3.5
9 Oesophagus	2.4	Colon	3.3	Lymphoid leukaemia	2.9
10 Non-Hodgkin's lymphoma	2.4	Ovary	2.7	Oesophagus	2.6

3. Diabetes Mellitus (E10-E14)

Figure (67) Diabetes Mellitus as Percentage of Total inpatients (2014-2016)

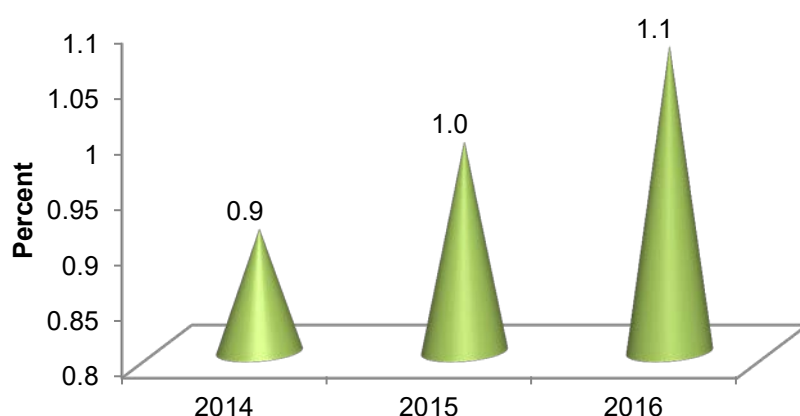
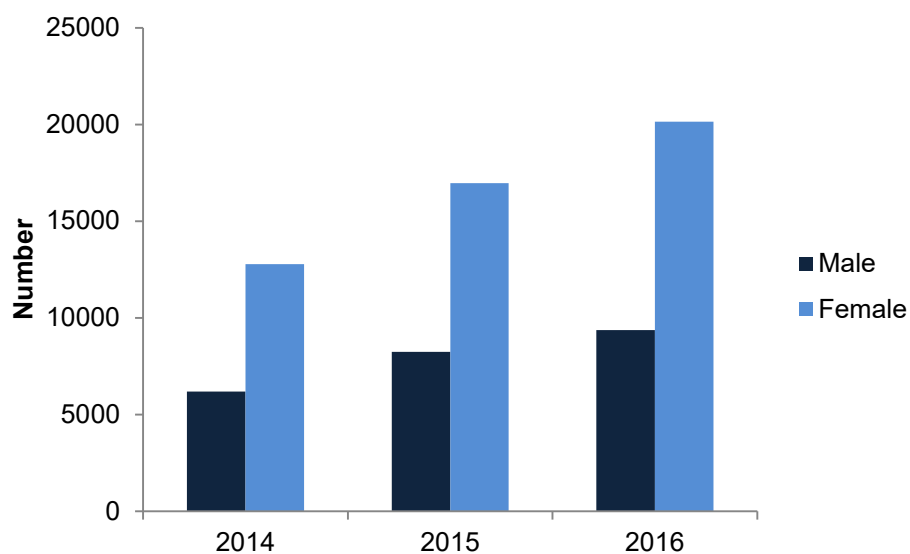


Figure (68) Frequency Distribution of Diabetes Mellitus by Sex



4. Chronic Respiratory Diseases (J30-J98)

Table (41) Ten Leading causes of Morbidity among Male Respiratory Disease patients (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Other chronic obstructive pulmonary disease	29.9	Other chronic obstructive pulmonary disease	31.3	Other chronic obstructive pulmonary disease	32.3
2	Asthma	17.1	Asthma	17.2	Asthma	18.5
3	Status asthmaticus	11.2	Status asthmaticus	12.0	Status asthmaticus	10.6
4	Pleural effusion	10.9	Pleural effusion	10.5	Pleural effusion	9.2
5	Bronchitis, not specified as acute or chronic	4.4	Bronchitis, not specified as acute or chronic	4.0	Other respiratory disorders	4.0
6	Other respiratory disorders	3.8	Other respiratory disorders	3.7	Bronchitis, not specified as acute or chronic	3.2
7	Pyothorax	2.8	Nasal polyp	2.5	Pyothorax	2.6
8	Pneumothorax	2.6	Pyothorax	2.5	Unspecified chronic bronchitis	2.3
9	Nasal polyp	2.3	Pneumothorax	2.3	Nasal polyp	1.9
10	Pneumonitis due to solids and liquids	2.2	Pneumonitis due to solids and liquids	2.1	Pneumonitis due to solids and liquids	1.9

Table (42) Ten Leading causes of Morbidity among Female Respiratory Disease patients (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Other chronic obstructive pulmonary disease	33.8	Other chronic obstructive pulmonary disease	36.3	Other chronic obstructive pulmonary disease	36.5
2	Asthma	21.6	Asthma	20.7	Asthma	21.2
3	Status asthmaticus	14.9	Status asthmaticus	15.8	Status asthmaticus	14.5
4	Pleural effusion	6.8	Pleural effusion	6.9	Pleural effusion	5.3
5	Other respiratory disorders	4.1	Other respiratory disorders	3.7	Other respiratory disorders	4.1
6	Bronchitis, not specified as acute or chronic	3.6	Bronchitis, not specified as acute or chronic	3.1	Bronchitis, not specified as acute or chronic	2.9
7	Pulmonary oedema	2.2	Pulmonary oedema	1.9	Pulmonary oedema	2.2
8	Nasal polyp	1.7	Nasal polyp	1.8	Nasal polyp	2.0
9	Pyothorax	1.3	Pneumonitis due to solids and liquids	1.0	Unspecified chronic bronchitis	1.6
10	Pneumonitis due to solids and liquids	1.2	Peritonsillar abscess	0.9	Pneumonitis due to solids and liquids	1.2

Table (43) Ten Leading causes of Mortality among Male Respiratory Disease Patients (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Other chronic obstructive pulmonary disease	25.5	Other chronic obstructive pulmonary disease	23.8	Other chronic obstructive pulmonary disease	23.5
2	Pneumonitis due to solids and liquids	20.1	Pneumonitis due to solids and liquids	17.9	Respiratory failure, not elsewhere classified	18.0
3	Respiratory failure, not elsewhere classified	15.4	Respiratory failure, not elsewhere classified	16.1	Pulmonary oedema	14.0
4	Pulmonary oedema	9.7	Pulmonary oedema	13.5	Pneumonitis due to solids and liquids	12.5
5	Adult respiratory distress syndrome	5.7	Adult respiratory distress syndrome	6.4	Adult respiratory distress syndrome	9.6
6	Pleural effusion	5.7	Other respiratory disorders	5.6	Pleural effusion	5.3
7	Status asthmaticus	3.9	Pleural effusion	4.4	Other respiratory disorders	3.2
8	Other respiratory disorders	3.9	Status asthmaticus	3.2	Asthma	3.0
9	Other pleural conditions	2.3	Asthma	2.4	Abscess of lung and mediastinum	2.5
10	Pyothorax	2.0	Other pleural conditions	2.0	Pyothorax	1.9

Table (44) Ten Leading causes of Mortality among Female Respiratory Disease Patients (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Other chronic obstructive pulmonary disease	29.4	Other chronic obstructive pulmonary disease	31.6	Other chronic obstructive pulmonary disease	31.1
2	Pulmonary oedema	17.5	Pulmonary oedema	17.6	Pneumonitis due to solids and liquids	16.7
3	Pneumonitis due to solids and liquids	14.8	Respiratory failure, not elsewhere classified	13.0	Pulmonary oedema	15.9
4	Respiratory failure, not elsewhere classified	11.7	Pneumonitis due to solids and liquids	11.6	Respiratory failure, not elsewhere classified	13.7
5	Pleural effusion	5.7	Adult respiratory distress syndrome	6.0	Adult respiratory distress syndrome	5.8
6	Asthma	4.8	Status asthmaticus	5.9	Asthma	5.5
7	Adult respiratory distress syndrome	4.4	Other respiratory disorders	5.5	Other respiratory disorders	4.1
8	Status asthmaticus	3.5	Pleural effusion	3.1	Pleural effusion	2.8
9	Other respiratory disorders	2.9	Pyothorax	1.7	Bronchitis, not specified as acute or chronic	1.5
10	Other pleural conditions	1.1	Other pleural conditions	1.3	Status asthmaticus	0.7

IV. Injuries, poisoning and certain other consequences of external causes (S00-T98)

Figure (69) Percent Distribution of Injuries, poisoning and certain other consequences of external causes (S00-T98)

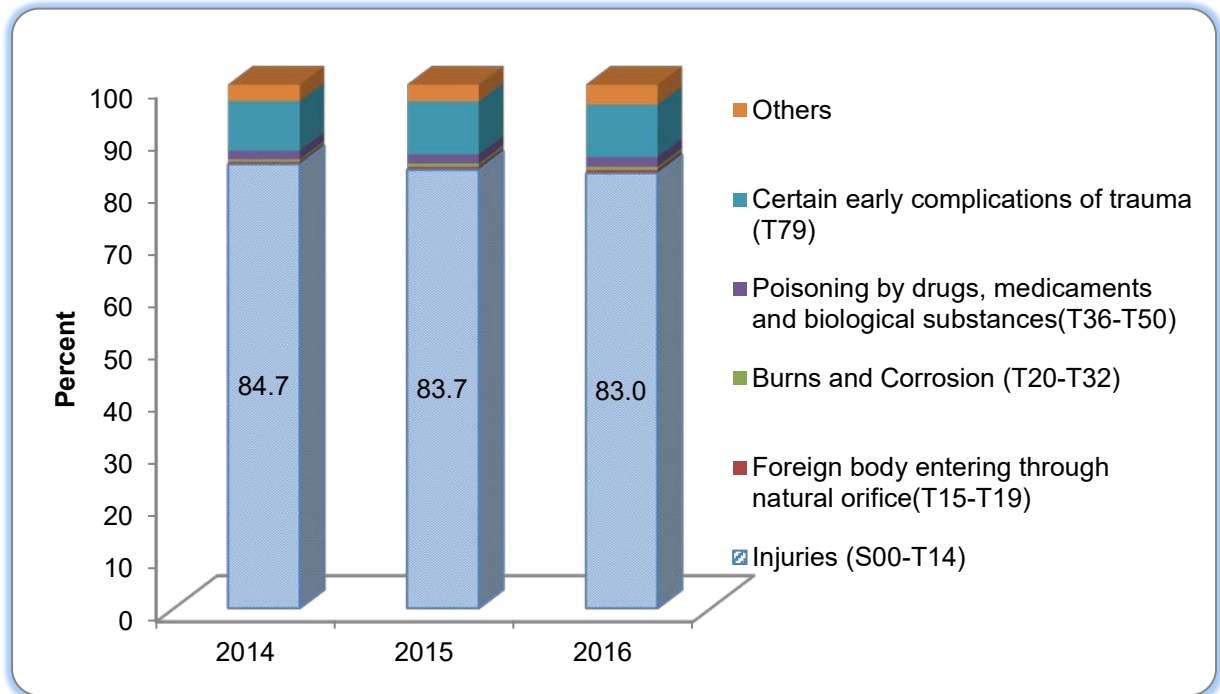


Figure (70) Percent Distribution of Morbidity of injuries by body region (2014-2016)

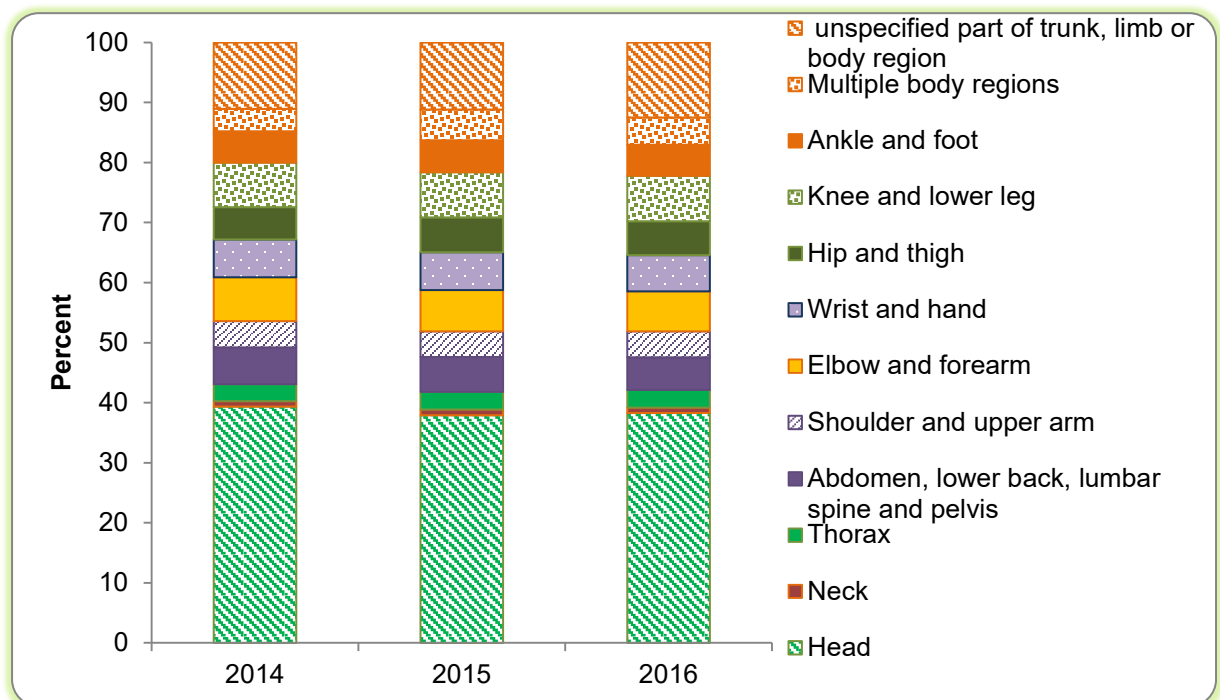


Figure (71) Gender Distribution of Morbidity of Injuries, poisoning and certain other consequences of external causes (2014-2016)

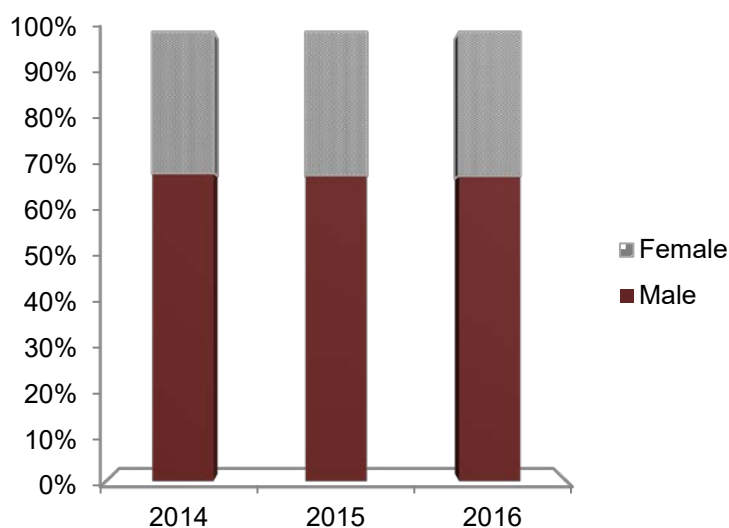


Table (45) Ten Leading causes of Morbidity among Male Injury cases (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Other and unspecified injuries of head	30.0	Other and unspecified injuries of head	28.8	Other and unspecified injuries of head	28.3
2	Injury of unspecified body region	7.6	Injury of unspecified body region	7.4	Injury of unspecified body region	8.4
3	Toxic effect of contact with venomous animals	4.9	Toxic effect of contact with venomous animals	5.3	Toxic effect of contact with venomous animals	5.2
4	Fracture of forearm	3.8	Unspecified multiple injuries	4.3	Unspecified multiple injuries	3.7
5	Fracture of lower leg, including ankle	3.3	Fracture of forearm	3.6	Fracture of forearm	3.7
6	Other and unspecified injuries of abdomen, lower back and pelvis	3.2	Fracture of lower leg, including ankle	3.3	Fracture of lower leg, including ankle	3.3
7	Unspecified multiple injuries	3.0	Fracture of femur	3.0	Fracture of femur	3.0
8	Fracture of femur	2.7	Other and unspecified injuries of abdomen, lower back and pelvis	2.9	Other and unspecified injuries of abdomen, lower back and pelvis	2.7
9	Other and unspecified injuries of wrist and hand	2.7	Other and unspecified injuries of wrist and hand	2.7	Fracture of shoulder and upper arm	2.7
10	Fracture of shoulder and upper arm	2.6	Fracture of shoulder and upper arm	2.6	Other and unspecified injuries of wrist and hand	2.6

Table (46) Ten Leading causes of Morbidity among Female Injury cases (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Other and unspecified injuries of head	26.2	Other and unspecified injuries of head	25.0	Other and unspecified injuries of head	24.3
2	Injury of unspecified body region	10.0	Injury of unspecified body region	9.7	Injury of unspecified body region	11.8
3	Toxic effect of contact with venomous animals	5.7	Toxic effect of contact with venomous animals	6.6	Toxic effect of contact with venomous animals	5.8
4	Fracture of forearm	4.7	Fracture of femur	4.6	Fracture of femur	4.8
5	Fracture of femur	4.2	Fracture of forearm	4.5	Fracture of forearm	4.5
6	Other and unspecified injuries of abdomen, lower back and pelvis	3.9	Other and unspecified injuries of abdomen, lower back and pelvis	3.5	Other and unspecified injuries of abdomen, lower back and pelvis	3.0
7	Fracture of shoulder and upper arm	3.0	Unspecified multiple injuries	3.1	Fracture of shoulder and upper arm	2.9
8	Fracture of lower leg, including ankle	2.6	Fracture of shoulder and upper arm	2.8	Fracture of lower leg, including ankle	2.7
9	Toxic effect of pesticides	2.5	Toxic effect of other noxious substances eaten as food	2.6	Toxic effect of pesticides	2.7
10	Toxic effect of other noxious substances eaten as food	2.3	Toxic effect of pesticides	2.5	Unspecified multiple injuries	2.7

Figure (72) Percent Distribution of Injuries, poisoning and certain other consequences of external causes (S00-T98)

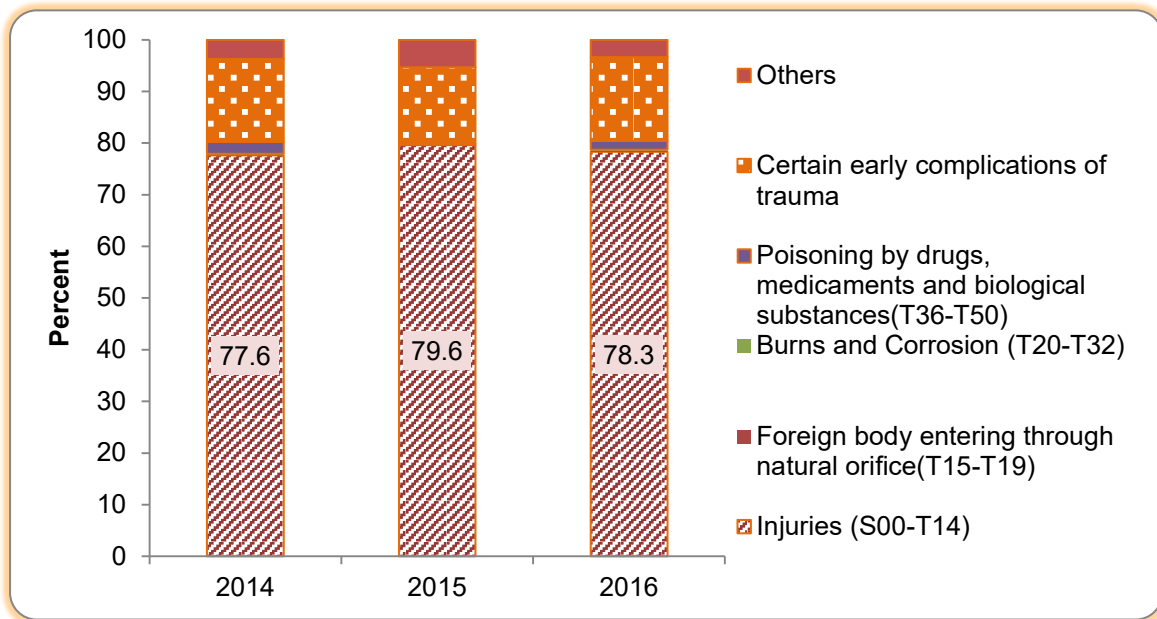


Figure (73) Percent Distribution of Mortality of injuries by body region (2014-2016)

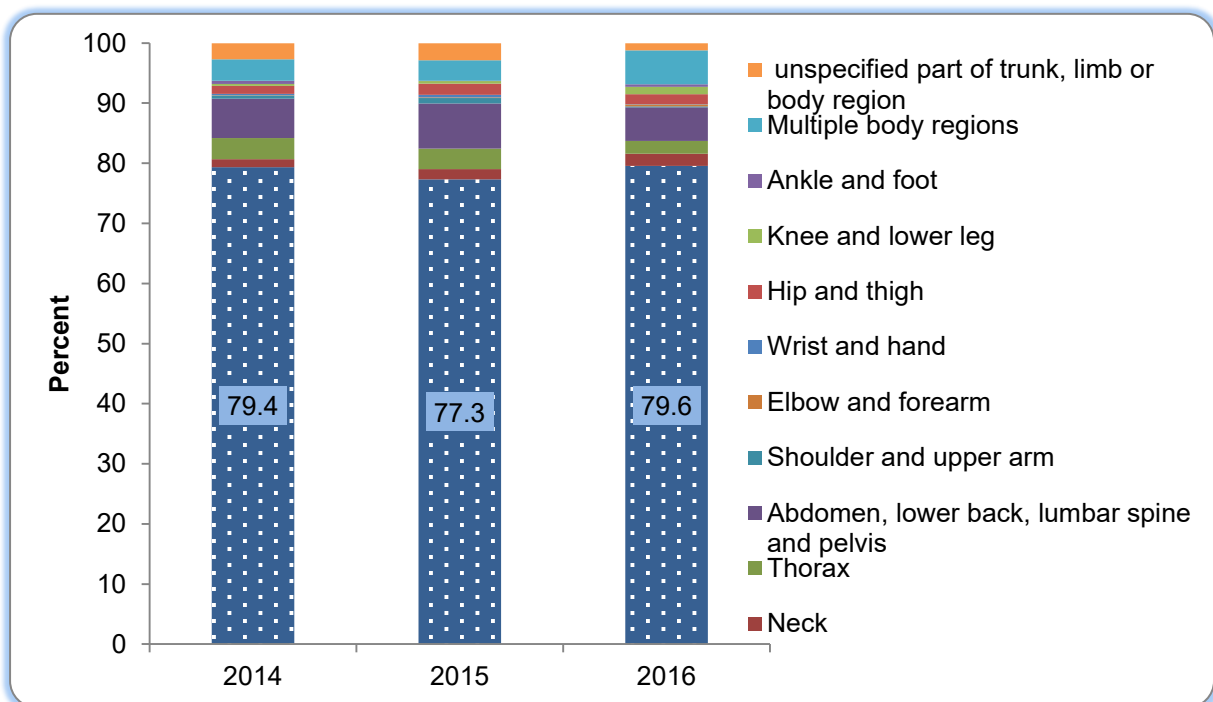


Figure (74) Gender Distribution of Mortality of Injuries, poisoning and certain other consequences of external causes (2014-2016)

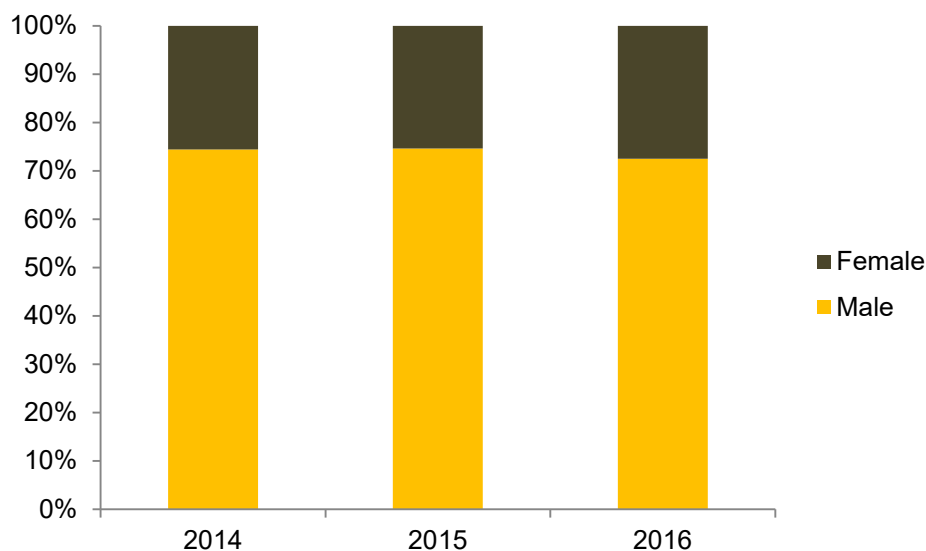


Table (47) Ten Leading causes of Mortality among Male Injury cases (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Other and unspecified injuries of head	42.7	Other and unspecified injuries of head	40.1	Other and unspecified injuries of head	36.1
2	Intracranial injury	19.1	Intracranial injury	20.8	Intracranial injury	25.6
3	Toxic effect of contact with venomous animals	6.6	Toxic effect of contact with venomous animals	4.1	Toxic effect of contact with venomous animals	6.5
4	Toxic effect of pesticides	4.3	Toxic effect of pesticides	4.0	Toxic effect of pesticides	5.7
5	Other and unspecified injuries of abdomen, lower back and pelvis	2.9	Unspecified multiple injuries	2.8	Unspecified multiple injuries	4.0
6	Unspecified multiple injuries	2.7	Other and unspecified injuries of abdomen, lower back and pelvis	2.6	Fracture of skull and facial bones	2.6
7	Fracture of skull and facial bones	2.5	Fracture of skull and facial bones	2.3	Other and unspecified injuries of abdomen, lower back and pelvis	2.0
8	Injury of unspecified body region	1.5	Injury of intra-abdominal organs	2.1	Injury of intra-abdominal organs	1.5
9	Burns classified according to extent of body surface involved	1.5	Injury of unspecified body region	2.0	Burns classified according to extent of body surface involved	0.9
10	Injury of intra-abdominal organs	1.4	Other and unspecified injuries of thorax	1.4	Toxic effect of corrosive substances	0.9

Table (48) Ten Leading causes of Mortality among Female Injury cases (2014-2016)

	2014		2015		2016	
	Causes	%	Causes	%	Causes	%
1	Other and unspecified injuries of head	35.1	Other and unspecified injuries of head	36.5	Other and unspecified injuries of head	35.5
2	Intracranial injury	16.7	Intracranial injury	16.0	Intracranial injury	19.2
3	Toxic effect of pesticides	12.3	Toxic effect of pesticides	9.0	Toxic effect of pesticides	10.5
4	Toxic effect of contact with venomous animals	5.6	Toxic effect of other and unspecified substances	6.6	Toxic effect of contact with venomous animals	7.2
5	Toxic effect of other and unspecified substances	3.7	Toxic effect of contact with venomous animals	4.5	Unspecified multiple injuries	5.3
6	Unspecified multiple injuries	2.6	Injury of urinary and pelvic organs	2.3	Fracture of femur	2.6
7	Injury of unspecified body region	1.9	Injury of unspecified body region	2.0	Burn and corrosion, body region unspecified	2.1
8	Toxic effect of other noxious substances eaten as food	1.9	Other and unspecified injuries of abdomen, lower back and pelvis	1.9	Toxic effect of other and unspecified substances	2.1
9	Other and unspecified injuries of abdomen, lower back and pelvis	1.8	Fracture of skull and facial bones	1.8	Open wound of abdomen, lower back and pelvis	1.6
10	Burns classified according to extent of body surface involved	1.6	Injury of intra-abdominal organs	1.6	Fracture of skull and facial bones	1.2

(D)SINGLE LEADING CAUSES OF HOSPITALIZATION BY REGIONS AND STATES

Table (49-1) Single Leading Causes of Hospitalization by Sex in Kachin State (2014)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0.0	4461	12.7	4461	6.6	4.0
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2262	6.9	1853	5.3	4115	6.1	3.8
3	S09	Other and unspecified injuries of head	2845	8.7	1185	3.4	4030	5.9	3.8
4	O82	Single delivery by caesarean section	0	0.0	3293	9.4	3293	4.9	8.7
5	B34	Viral infection of unspecified site	1411	4.3	1107	3.2	2518	3.7	3.6
6	K29	Gastritis and duodenitis	883	2.7	881	2.5	1764	2.6	3.8
7	O06	Unspecified abortion	0	0.0	1640	4.7	1640	2.4	3.0
8	J06	Acute upper respiratory infections of multiple and unspecified sites	782	2.4	598	1.7	1380	2.0	4.7
9	F11	Mental and behavioural disorders due to use of opioids	1099	3.3	9	0.0	1108	1.6	21.1
10	B54	Unspecified malaria	639	1.9	449	1.3	1088	1.6	4.8
11	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	724	2.2	320	0.9	1044	1.5	9.1
12	K35	Acute appendicitis	484	1.5	540	1.5	1024	1.5	6.1
13	B24	Unspecified human immunodeficiency virus [HIV] disease	585	1.8	353	1.0	938	1.4	9.1
14	H26	Other cataract	332	1.0	597	1.7	929	1.4	3.0
15	P36	Bacterial sepsis of newborn	513	1.6	394	1.1	907	1.3	4.7
	...	All other Causes	20273	61.7	17310	49.5	37583	55.4	5.8
		Total	32832	100	34990	100	67822	100	5.6

Table (49-2) Single Leading Causes of Hospitalization by Sex in Kachin State (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	B34	Viral infection of unspecified site	2977	7.5	2871	6.6	5848	7.0	4.2
2	O80	Single spontaneous delivery	0	0.0	5494	12.7	5494	6.6	3.7
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2840	7.1	2529	5.8	5369	6.5	4.0
4	S09	Other and unspecified injuries of head	3481	8.7	1398	3.2	4879	5.9	2.9
5	O82	Single delivery by caesarean section	0	0.0	3928	9.1	3928	4.7	7.8
6	J06	Acute upper respiratory infections of multiple and unspecified sites	1287	3.2	1181	2.7	2468	3.0	4.8
7	K29	Gastritis and duodenitis	1293	3.2	1088	2.5	2381	2.9	3.9
8	O06	Unspecified abortion	0	0.0	2237	5.2	2237	2.7	2.9
9	P59	Neonatal jaundice from other and unspecified causes	764	1.9	646	1.5	1410	1.7	4.4
10	F11	Mental and behavioural disorders due to use of opioids	1380	3.5	12	0.0	1392	1.7	21.3
11	A91	Dengue haemorrhagic fever	653	1.6	659	1.5	1312	1.6	4.1
12	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	876	2.2	398	0.9	1274	1.5	7.8
13	B24	Unspecified human immunodeficiency virus [HIV] disease	758	1.9	491	1.1	1249	1.5	7.7
14	I10	Essential (primary) hypertension	447	1.1	696	1.6	1143	1.4	4.1
15	B54	Unspecified malaria	628	1.6	460	1.1	1088	1.3	4.7
	...	All other Causes	22460	56.4	19268	44.4	41728	50.2	5.5
		Total	39844	100	43356	100	83200	100	5.3

Table (49-3) Single Leading Causes of Hospitalization by Sex in Kachin State (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	7320	16.1	7320	8.4	3.8
2	B34	Viral infection of unspecified site	2890	6.9	2538	5.6	5428	6.2	4
3	O82	Single delivery by caesarean section	0	0	4487	9.8	4487	5.1	7.9
4	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2363	5.7	2029	4.5	4392	5	3.7
5	S09	Other and unspecified injuries of head	2782	6.7	997	2.2	3779	4.3	3.8
6	K29	Gastritis and duodenitis	1438	3.5	1255	2.8	2693	3.1	3.6
7	J18	Pneumonia, organism unspecified	1396	3.4	1069	2.3	2465	2.8	5.3
8	O06	Unspecified abortion	0	0	1950	4.3	1950	2.2	3.1
9	J06	Acute upper respiratory infections of multiple and unspecified sites	914	2.2	854	1.9	1768	2	4.7
10	F11	Mental and behavioural disorders due to use of opioids	1705	4.1	12	0	1717	2	20.5
11	P59	Neonatal jaundice from other and unspecified causes	795	1.9	699	1.5	1494	1.7	4.2
12	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	877	2.1	381	0.8	1258	1.4	6.8
13	B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	935	2.2	282	0.6	1217	1.4	7.8
14	I10	Essential (primary) hypertension	543	1.3	608	1.3	1151	1.3	3.8
15	B24	Unspecified human immunodeficiency virus [HIV] disease	789	1.9	319	0.7	1108	1.3	7.9
	...	All other Causes	24178	58.1	20782	45.6	44960	51.6	5.7
		Total	41605	100	45582	100	87187	100	5.4

Table (50-1) Single Leading Causes of Hospitalization by Sex in Kayah State (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	749	8.8	595	6.5	1344	7.6	4.1
2	S09	Other and unspecified injuries of head	633	7.5	211	2.3	844	4.8	5.3
3	O80	Single spontaneous delivery	0	0.0	812	8.8	812	4.6	3.5
4	P59	Neonatal jaundice from other and unspecified causes	367	4.3	244	2.7	611	3.5	4.9
5	J06	Acute upper respiratory infections of multiple and unspecified sites	333	3.9	242	2.6	575	3.3	5.0
6	K29	Gastritis and duodenitis	228	2.7	244	2.7	472	2.7	5.2
7	B34	Viral infection of unspecified site	227	2.7	210	2.3	437	2.5	4.1
8	O06	Unspecified abortion	0	0.0	338	3.7	338	1.9	3.0
9	I10	Essential (primary) hypertension	146	1.7	166	1.8	312	1.8	4.6
10	N39	Other disorders of urinary system	78	0.9	201	2.2	279	1.6	4.4
11	Z30	Contraceptive management	0	0.0	272	3.0	272	1.5	5.5
12	S52	Fracture of forearm	162	1.9	106	1.2	268	1.5	8.2
13	F10	Mental and behavioural disorders due to use of alcohol	222	2.6	20	0.2	242	1.4	5.1
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	185	2.2	50	0.5	235	1.3	8.1
15	O32	Maternal care for known or suspected malpresentation of fetus	0	0.0	233	2.5	233	1.3	5.8
	...	All other Causes	5162	60.8	5248	57.1	10410	58.9	7.1
		Total	8492	100	9192	100	17684	100	5.6

Table (50-2) Single Leading Causes of Hospitalization by Sex in Kayah State (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1398	12.2	1308	10.3	2706	11.2	4.1
2	O80	Single spontaneous delivery	0	0.0	1662	13.1	1662	6.9	3.8
3	B34	Viral infection of unspecified site	622	5.4	620	4.9	1242	5.2	5.7
4	S09	Other and unspecified injuries of head	700	6.1	277	2.2	977	4.1	3.8
5	K29	Gastritis and duodenitis	272	2.4	277	2.2	549	2.3	4.7
6	R50	Fever of unknown origin	238	2.1	230	1.8	468	1.9	6.1
7	J06	Acute upper respiratory infections of multiple and unspecified sites	279	2.4	170	1.3	449	1.9	5.1
8	P59	Neonatal jaundice from other and unspecified causes	281	2.5	156	1.2	437	1.8	5.1
9	J18	Pneumonia, organism unspecified	265	2.3	165	1.3	430	1.8	6.2
10	P36	Bacterial sepsis of newborn	232	2.0	189	1.5	421	1.7	5.1
11	O06	Unspecified abortion	0	0.0	375	3.0	375	1.6	4.0
12	A91	Dengue haemorrhagic fever	169	1.5	195	1.5	364	1.5	4.2
13	J22	Unspecified acute lower respiratory infection	188	1.6	164	1.3	352	1.5	4.5
14	N39	Other disorders of urinary system	118	1.0	202	1.6	320	1.3	4.2
15	I10	Essential (primary) hypertension	143	1.3	175	1.4	318	1.3	4.3
	...	All other Causes	6528	57.1	6482	51.3	13010	54.0	7.0
		Total	11433	100	12647	100	24080	100	5.3

Table (50-3) Single Leading Causes of Hospitalization by Sex in Kayah State (2016)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1173	11.0	1005	7.3	2178	8.9	3.9
2	O80	Single spontaneous delivery	0	0	1754	12.8	1754	7.2	3.7
3	B34	Viral infection of unspecified site	686	6.4	644	4.7	1330	5.4	3.9
4	J22	Unspecified acute lower respiratory infection	511	4.8	469	3.4	980	4.0	4.9
5	S09	Other and unspecified injuries of head	560	5.2	242	1.8	802	3.3	3.8
6	K29	Gastritis and duodenitis	308	2.9	297	2.2	605	2.5	3.6
7	P59	Neonatal jaundice from other and unspecified causes	228	2.1	237	1.7	465	1.9	5.2
8	O82	Single delivery by caesarean section	0	0	394	2.9	394	1.6	7.7
9	O06	Unspecified abortion	0	0	393	2.9	393	1.6	2.4
10	I10	Essential (primary) hypertension	169	1.6	189	1.4	358	1.5	4.0
11	J06	Acute upper respiratory infections of multiple and unspecified sites	188	1.8	162	1.2	350	1.4	5.6
12	P36	Bacterial sepsis of newborn	191	1.8	156	1.1	347	1.4	5.4
13	R50	Fever of unknown origin	195	1.8	147	1.1	342	1.4	7.2
14	N39	Other disorders of urinary system	51	0.5	271	2.0	322	1.3	3.8
15	F10	Mental and behavioural disorders due to use of alcohol	293	2.7	19	0.1	312	1.3	4.5
	...	All other Causes	6122	57.3	7375	53.6	13497	55.2	6.6
		Total	10675	100	13754	100	24429	100	5.3

Table (51-1) Single Leading Causes of Hospitalization by Sex in Kayin State (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2682	11.6	2555	8.5	5237	9.9	3.4
2	O80	Single spontaneous delivery	0	0	3189	10.6	3189	6.0	3.7
3	S09	Other and unspecified injuries of head	1773	7.7	857	2.9	2630	5.0	2.9
4	B34	Viral infection of unspecified site	1364	5.9	1215	4.0	2579	4.9	3.5
5	O82	Single delivery by caesarean section	0	0	1776	5.9	1776	3.3	7.0
6	K29	Gastritis and duodenitis	699	3.0	928	3.1	1627	3.1	3.2
7	J18	Pneumonia, organism unspecified	854	3.7	766	2.6	1620	3.1	4.8
8	O06	Unspecified abortion	0	0	1288	4.3	1288	2.4	2.2
9	J06	Acute upper respiratory infections of multiple and unspecified sites	638	2.8	549	1.8	1187	2.2	4.1
10	P59	Neonatal jaundice from other and unspecified causes	378	1.6	464	1.5	842	1.6	4.1
11	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	513	2.2	314	1.0	827	1.6	6.0
12	I10	Essential (primary) hypertension	327	1.4	485	1.6	812	1.5	3.2
13	A91	Dengue haemorrhagic fever	342	1.5	369	1.2	711	1.3	3.5
14	O81	Single delivery by forceps and vacuum extractor	0	0	684	2.3	684	1.3	4.6
15	K92	Other diseases of digestive system	500	2.2	159	0.5	659	1.2	4.5
	...	All other Causes	12991	56.3	14424	48.0	27415	51.6	4.6
		Total	23061	100	30022	100	53083	100	4.3

Table (51-2) Single Leading Causes of Hospitalization by Sex in Kayin State (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	4466	14.5	3856	9.9	8322	11.9	3.3
2	O80	Single spontaneous delivery	0	0.0	4966	12.7	4966	7.1	3.2
3	B34	Viral infection of unspecified site	2332	7.6	2286	5.8	4618	6.6	3.3
4	A91	Dengue haemorrhagic fever	1308	4.2	1605	4.1	2913	4.2	3.3
5	O82	Single delivery by caesarean section	0	0.0	2716	6.9	2716	3.9	6.8
6	S09	Other and unspecified injuries of head	1838	6.0	862	2.2	2700	3.9	2.9
7	K29	Gastritis and duodenitis	1146	3.7	1303	3.3	2449	3.5	3.5
8	J18	Pneumonia, organism unspecified	1105	3.6	936	2.4	2041	2.9	4.5
9	O06	Unspecified abortion	0	0.0	1529	3.9	1529	2.2	2.1
10	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	634	2.1	413	1.1	1047	1.5	6.1
11	I10	Essential (primary) hypertension	395	1.3	622	1.6	1017	1.5	3.2
12	P59	Neonatal jaundice from other and unspecified causes	372	1.2	640	1.6	1012	1.4	3.8
13	J06	Acute upper respiratory infections of multiple and unspecified sites	541	1.8	372	1.0	913	1.3	4.1
14	O81	Single delivery by forceps and vacuum extractor	0	0.0	861	2.2	861	1.2	4.0
15	J22	Unspecified acute lower respiratory infection	413	1.3	436	1.1	849	1.2	4.1
	...	All other Causes	16330	52.9	15730	40.2	32060	45.8	4.5
		Total	30880	100	39133	100	70013	100	4.0

Table (51-3) Single Leading Causes of Hospitalization by Sex in Kayin State (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	4518	13.4	3832	8.9	8350	10.9	3.4
2	B34	Viral infection of unspecified site	3134	9.3	2722	6.3	5856	7.6	3.6
3	O80	Single spontaneous delivery	0	0	5673	13.2	5673	7.4	3.3
4	S09	Other and unspecified injuries of head	2470	7.3	812	1.9	3282	4.3	2.8
5	K29	Gastritis and duodenitis	1235	3.7	1361	3.2	2596	3.4	3.5
6	J18	Pneumonia, organism unspecified	1224	3.6	1178	2.7	2402	3.1	4.4
7	O82	Single delivery by caesarean section	0	0	2333	5.4	2333	3.0	6.9
8	J06	Acute upper respiratory infections of multiple and unspecified sites	1075	3.2	858	2.0	1933	2.5	4.3
9	O06	Unspecified abortion	0	0	1441	3.3	1441	1.9	2.4
10	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	823	2.4	560	1.3	1383	1.8	6.5
11	I10	Essential (primary) hypertension	400	1.2	846	2.0	1246	1.6	3.1
12	F10	Mental and behavioural disorders due to use of alcohol	1064	3.2	103	0.2	1167	1.5	3.8
13	P59	Neonatal jaundice from other and unspecified causes	355	1.1	721	1.7	1076	1.4	4.8
14	J22	Unspecified acute lower respiratory infection	515	1.5	538	1.2	1053	1.4	4.3
15	O81	Single delivery by forceps and vacuum extractor	0	0	1041	2.4	1041	1.4	4.3
	...	All other Causes	16928	50.2	19101	44.3	36029	46.9	4.5
		Total	33741	100	43120	100	76861	100	4.0

Table (52-1) Single Leading Causes of Hospitalization by Sex in Chin State (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	872	10.8	785	7.8	1657	9.2	4.4
2	O80	Single spontaneous delivery	0	0.0	1132	11.3	1132	6.3	5.9
3	K29	Gastritis and duodenitis	328	4.1	506	5.0	834	4.6	5.4
4	J06	Acute upper respiratory infections of multiple and unspecified sites	394	4.9	380	3.8	774	4.3	5.2
5	S09	Other and unspecified injuries of head	561	7.0	196	2.0	757	4.2	4.3
6	B34	Viral infection of unspecified site	325	4.0	273	2.7	598	3.3	3.9
7	J18	Pneumonia, organism unspecified	296	3.7	219	2.2	515	2.8	6.4
8	B54	Unspecified malaria	273	3.4	193	1.9	466	2.6	5.3
9	O82	Single delivery by caesarean section	0	0.0	437	4.3	437	2.4	8.0
10	O06	Unspecified abortion	0	0.0	351	3.5	351	1.9	3.0
11	N39	Other disorders of urinary system	95	1.2	216	2.1	311	1.7	5.5
12	B50	Plasmodium falciparum malaria	158	2.0	144	1.4	302	1.7	5.7
13	K37	Unspecified appendicitis	69	0.9	233	2.3	302	1.7	7.4
14	K35	Acute appendicitis	81	1.0	219	2.2	300	1.7	7.3
15	J22	Unspecified acute lower respiratory infection	135	1.7	141	1.4	276	1.5	6.2
	...	All other Causes	4473	55.5	4622	46.0	9095	50.2	6.7
		Total	8060	100	10047	100	18107	100	5.8

Table (52-2) Single Leading Causes of Hospitalization by Sex in Chin State (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1218	11.9	1015	7.7	2233	9.5	4.5
2	O80	Single spontaneous delivery	0	0.0	1526	11.6	1526	6.5	4.4
3	K29	Gastritis and duodenitis	539	5.2	534	4.1	1073	4.6	5.1
4	B34	Viral infection of unspecified site	498	4.8	457	3.5	955	4.1	4.0
5	O82	Single delivery by caesarean section	0	0.0	852	6.5	852	3.6	8.5
6	J06	Acute upper respiratory infections of multiple and unspecified sites	467	4.5	362	2.8	829	3.5	5.5
7	S09	Other and unspecified injuries of head	557	5.4	186	1.4	743	3.2	3.9
8	K35	Acute appendicitis	195	1.9	439	3.3	634	2.7	6.7
9	N39	Other disorders of urinary system	118	1.1	417	3.2	535	2.3	5.7
10	K37	Unspecified appendicitis	122	1.2	403	3.1	525	2.2	5.1
11	O06	Unspecified abortion	0	0.0	457	3.5	457	2.0	3.2
12	J18	Pneumonia, organism unspecified	217	2.1	154	1.2	371	1.6	6.2
13	I10	Essential (primary) hypertension	172	1.7	140	1.1	312	1.3	5.3
14	B50	Plasmodium falciparum malaria	163	1.6	145	1.1	308	1.3	5.3
15	F41	Other anxiety disorders	45	0.4	263	2.0	308	1.3	4.5
	...	All other Causes	5958	58.0	5790	44.1	11748	50.2	6.7
		Total	10269	100	13140	100	23409	100	5.7

Table (52-3) Single Leading Causes of Hospitalization by Sex in Chin State (2016)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1261	10.4	1073	7.0	2334	8.5	3.9
2	K29	Gastritis and duodenitis	711	5.9	872	5.7	1583	5.8	5.0
3	O80	Single spontaneous delivery	0	0	1449	9.5	1449	5.3	4.1
4	B34	Viral infection of unspecified site	604	5.0	537	3.5	1141	4.2	4.0
5	J06	Acute upper respiratory infections of multiple and unspecified sites	443	3.7	470	3.1	913	3.3	4.8
6	S09	Other and unspecified injuries of head	550	4.5	268	1.8	818	3.0	2.8
7	K37	Unspecified appendicitis	215	1.8	563	3.7	778	2.8	4.5
8	J18	Pneumonia, organism unspecified	402	3.3	362	2.4	764	2.8	4.6
9	O82	Single delivery by caesarean section	0	0	577	3.8	577	2.1	7.5
10	N39	Other disorders of urinary system	188	1.6	376	2.5	564	2.1	4.8
11	K35	Acute appendicitis	161	1.3	349	2.3	510	1.9	6.1
12	O06	Unspecified abortion	0	0	510	3.3	510	1.9	3.9
13	I10	Essential (primary) hypertension	188	1.6	242	1.6	430	1.6	4.7
14	F10	Mental and behavioural disorders due to use of alcohol	429	3.5	0	0	429	1.6	4.3
15	J22	Unspecified acute lower respiratory infection	148	1.2	268	1.8	416	1.5	4.8
	...	All other Causes	6827	56.3	7377	48.2	14204	51.8	6.1
		Total	12127	100	15293	100	27420	100	5.1

Table (53-1) Single Leading Causes of Hospitalization by Sex in Sagaing Region (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O82	Single delivery by caesarean section	0	0.0	14927	13.4	14927	7.5	7.5
2	O80	Single spontaneous delivery	0	0.0	14122	12.6	14122	7.1	4.3
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	6258	7.2	5120	4.6	11378	5.7	3.8
4	S09	Other and unspecified injuries of head	7460	8.5	2806	2.5	10266	5.2	3.6
5	B34	Viral infection of unspecified site	4532	5.2	4538	4.1	9070	4.6	4.0
6	J06	Acute upper respiratory infections of multiple and unspecified sites	4169	4.8	2920	2.6	7089	3.6	4.7
7	K29	Gastritis and duodenitis	2856	3.3	3337	3.0	6193	3.1	4.6
8	O06	Unspecified abortion	0	0.0	3906	3.5	3906	2.0	3.0
9	T14	Injury of unspecified body region	2164	2.5	1566	1.4	3730	1.9	2.9
10	H26	Other cataract	1257	1.4	2361	2.1	3618	1.8	3.1
11	B54	Unspecified malaria	1835	2.1	1278	1.1	3113	1.6	5.4
12	P59	Neonatal jaundice from other and unspecified causes	1512	1.7	1368	1.2	2880	1.4	4.8
13	O81	Single delivery by forceps and vacuum extractor	0	0.0	2752	2.5	2752	1.4	5.5
14	I10	Essential (primary) hypertension	922	1.1	1398	1.3	2320	1.2	4.7
15	F10	Mental and behavioural disorders due to use of alcohol	2144	2.5	61	0.1	2205	1.1	5.2
	...	All other Causes	52321	59.8	49266	44.1	101587	51.0	5.7
		Total	87430	100	111726	100	199156	100	5.1

Table (53-2) Single Leading Causes of Hospitalization by Sex in Sagaing Region (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	B34	Viral infection of unspecified site	10368	9.4	10502	7.3	20870	8.2	3.8
2	O80	Single spontaneous delivery	0	0.0	19154	13.3	19154	7.5	4.3
3	O82	Single delivery by caesarean section	0	0.0	16906	11.8	16906	6.7	7.4
4	A09	Diarrhoea and gastroenteritis of presumed infectious origin	7824	7.1	6506	4.5	14330	5.6	3.8
5	A91	Dengue haemorrhagic fever	6199	5.6	6614	4.6	12813	5.0	3.9
6	S09	Other and unspecified injuries of head	8046	7.3	2901	2.0	10947	4.3	3.2
7	K29	Gastritis and duodenitis	3992	3.6	4607	3.2	8599	3.4	4.3
8	J06	Acute upper respiratory infections of multiple and unspecified sites	4333	3.9	3227	2.2	7560	3.0	4.7
9	O06	Unspecified abortion	0	0.0	4443	3.1	4443	1.7	3.0
10	T14	Injury of unspecified body region	2432	2.2	1569	1.1	4001	1.6	2.6
11	B54	Unspecified malaria	2120	1.9	1562	1.1	3682	1.5	5.4
12	P59	Neonatal jaundice from other and unspecified causes	1835	1.7	1530	1.1	3365	1.3	4.7
13	O81	Single delivery by forceps and vacuum extractor	0	0.0	3110	2.2	3110	1.2	5.5
14	I10	Essential (primary) hypertension	1308	1.2	1769	1.2	3077	1.2	4.3
15	T63	Toxic effect of contact with venomous animals	1772	1.6	1174	0.8	2946	1.2	3.6
	...	All other Causes	60151	54.5	57953	40.4	118104	46.5	5.2
		Total	110380	100	143527	100	253907	100	4.7

Table (53-3) Single Leading Causes of Hospitalization by Sex in Sagaing Region (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	21135	14.3	21135	8.0	4.1
2	O82	Single delivery by caesarean section	0	0	18240	12.3	18240	6.9	7.0
3	B34	Viral infection of unspecified site	8643	7.5	8521	5.7	17164	6.5	4.0
4	A09	Diarrhoea and gastroenteritis of presumed infectious origin	7607	6.6	5373	3.6	12980	4.9	3.9
5	J06	Acute upper respiratory infections of multiple and unspecified sites	6913	6.0	5347	3.6	12260	4.7	4.6
6	S09	Other and unspecified injuries of head	7857	6.8	3200	2.2	11057	4.2	2.9
7	K29	Gastritis and duodenitis	4409	3.8	5023	3.4	9432	3.6	4.0
8	T14	Injury of unspecified body region	3372	2.9	1951	1.3	5323	2.0	2.5
9	O06	Unspecified abortion	0	0	4188	2.8	4188	1.6	3.1
10	K35	Acute appendicitis	1364	1.2	2286	1.5	3650	1.4	5.4
11	F10	Mental and behavioural disorders due to use of alcohol	3356	2.9	57	0	3413	1.3	4.4
12	B54	Unspecified malaria	1854	1.6	1305	0.9	3159	1.2	5.6
13	P39	Other infections specific to the perinatal period	1581	1.4	1538	1.0	3119	1.2	4.7
14	O81	Single delivery by forceps and vacuum extractor	0	0	3103	2.1	3103	1.2	4.8
15	T63	Toxic effect of contact with venomous animals	1780	1.5	1237	0.8	3017	1.1	2.9
	...	All other Causes	66245	57.6	65751	44.3	131996	50.1	4.8
		Total	114981	100	148255	100	263236	100	4.5

Table (54-1) Single Leading Causes of Hospitalization by Sex in Tanintharyi Region (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2401	8.8	2210	6.7	4611	7.6	3.7
2	O80	Single spontaneous delivery	0	0.0	4358	13.2	4358	7.2	4.2
3	B34	Viral infection of unspecified site	1929	7.1	1704	5.2	3633	6.0	3.7
4	S09	Other and unspecified injuries of head	1896	6.9	800	2.4	2696	4.5	3.9
5	O82	Single delivery by caesarean section	0	0.0	2658	8.1	2658	4.4	7.5
6	K29	Gastritis and duodenitis	927	3.4	1101	3.3	2028	3.4	4.0
7	A91	Dengue haemorrhagic fever	961	3.5	872	2.6	1833	3.0	4.1
8	J18	Pneumonia, organism unspecified	1016	3.7	790	2.4	1806	3.0	4.8
9	I10	Essential (primary) hypertension	527	1.9	783	2.4	1310	2.2	5.0
10	P59	Neonatal jaundice from other and unspecified causes	595	2.2	523	1.6	1118	1.9	4.1
11	J06	Acute upper respiratory infections of multiple and unspecified sites	626	2.3	462	1.4	1088	1.8	4.2
12	O81	Single delivery by forceps and vacuum extractor	0	0.0	883	2.7	883	1.5	5.0
13	H26	Other cataract	390	1.4	441	1.3	831	1.4	3.2
14	B54	Unspecified malaria	523	1.9	304	0.9	827	1.4	5.2
15	O06	Unspecified abortion	0	0.0	790	2.4	790	1.3	3.8
	...	All other Causes	15548	56.9	14277	43.3	29825	49.5	6.1
		Total	27339	100	32956	100	60295	100	5.0

Table (54-2) Single Leading Causes of Hospitalization by Sex in Tanintharyi Region (2015)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	3228	9.1	2716	6.4	5944	7.7	3.7
2	A91	Dengue haemorrhagic fever	2642	7.5	2943	7.0	5585	7.2	3.9
3	O80	Single spontaneous delivery	0	0.0	5444	12.9	5444	7.0	4.7
4	B34	Viral infection of unspecified site	2512	7.1	2370	5.6	4882	6.3	3.6
5	S09	Other and unspecified injuries of head	2506	7.1	1244	2.9	3750	4.8	3.3
6	O82	Single delivery by caesarean section	0	0.0	2756	6.5	2756	3.6	6.8
7	J18	Pneumonia, organism unspecified	1205	3.4	943	2.2	2148	2.8	4.8
8	K29	Gastritis and duodenitis	943	2.7	1205	2.9	2148	2.8	3.8
9	I10	Essential (primary) hypertension	460	1.3	830	2.0	1290	1.7	4.0
10	P59	Neonatal jaundice from other and unspecified causes	682	1.9	608	1.4	1290	1.7	4.6
11	B54	Unspecified malaria	739	2.1	392	0.9	1131	1.5	5.2
12	T14	Injury of unspecified body region	705	2.0	313	0.7	1018	1.3	5.2
13	K35	Acute appendicitis	375	1.1	597	1.4	972	1.3	5.7
14	O06	Unspecified abortion	0	0.0	972	2.3	972	1.3	3.0
15	H26	Other cataract	347	1.0	602	1.4	949	1.2	3.2
	...	All other Causes	18983	53.7	18285	43.3	37268	48.1	5.9
		Total	35327	100	42220	100	77547	100	4.8

Table (54-3) Single Leading Causes of Hospitalization by Sex in Tanintharyi Region (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	4368	11.4	4269	9.2	8637	10.2	3.7
2	O80	Single spontaneous delivery	0	0	7496	16.2	7496	8.9	4.2
3	B34	Viral infection of unspecified site	3558	9.3	3263	7.0	6821	8.1	3.8
4	S09	Other and unspecified injuries of head	3987	10.4	1693	3.7	5680	6.7	3.8
5	J18	Pneumonia, organism unspecified	1558	4.1	1546	3.3	3104	3.7	4.5
6	O82	Single delivery by caesarean section	0	0	2981	6.4	2981	3.5	7.2
7	K29	Gastritis and duodenitis	1030	2.7	1251	2.7	2281	2.7	4.1
8	I10	Essential (primary) hypertension	613	1.6	1116	2.4	1729	2.0	4.0
9	O06	Unspecified abortion	0	0	1718	3.7	1718	2.0	3.3
10	H26	Other cataract	589	1.5	957	2.1	1546	1.8	2.9
11	T14	Injury of unspecified body region	834	2.2	577	1.2	1411	1.7	5.0
12	A91	Dengue haemorrhagic fever	638	1.7	712	1.5	1350	1.6	4.7
13	J22	Unspecified acute lower respiratory infection	675	1.8	564	1.2	1239	1.5	4.5
14	P59	Neonatal jaundice from other and unspecified causes	626	1.6	442	1.0	1068	1.3	4.8
15	B54	Unspecified malaria	662	1.7	393	0.8	1055	1.2	5.3
	...	All other Causes	19102	50	17360	37.5	36462	43.1	5.3
			38240	100	46338	100	84578	100	4.5

Table (55-1) Single Leading Causes of Hospitalization by Sex in Bago Region (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	B34	Viral infection of unspecified site	6849	7.5	6380	5.7	13229	6.5	3.6
2	O80	Single spontaneous delivery	0	0.0	11483	10.2	11483	5.6	3.8
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	5923	6.4	5351	4.8	11274	5.5	3.4
4	O82	Single delivery by caesarean section	0	0.0	10747	9.5	10747	5.3	7.5
5	S09	Other and unspecified injuries of head	6849	7.5	2942	2.6	9791	4.8	3.2
6	K29	Gastritis and duodenitis	3361	3.7	4056	3.6	7417	3.6	4.1
7	J18	Pneumonia, organism unspecified	2660	2.9	1961	1.7	4621	2.3	4.4
8	O06	Unspecified abortion	0	0.0	3647	3.2	3647	1.8	2.9
9	J06	Acute upper respiratory infections of multiple and unspecified sites	1927	2.1	1587	1.4	3514	1.7	4.0
10	P59	Neonatal jaundice from other and unspecified causes	1733	1.9	1498	1.3	3231	1.6	4.4
11	O81	Single delivery by forceps and vacuum extractor	0	0.0	3164	2.8	3164	1.5	4.3
12	I10	Essential (primary) hypertension	1092	1.2	1911	1.7	3003	1.5	3.8
13	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	1796	2.0	1073	1.0	2869	1.4	7.4
14	H26	Other cataract	1000	1.1	1860	1.7	2860	1.4	2.4
15	J22	Unspecified acute lower respiratory infection	1117	1.2	1676	1.5	2793	1.4	5.0
	...	All other Causes	57537	62.6	53247	47.3	110784	54.2	4.9
		Total	91844	100	112583	100	204427	100	4.5

Table (55-2) Single Leading Causes of Hospitalization by Sex in Bago Region (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	B34	Viral infection of unspecified site	10462	9.3	10141	7.3	20603	8.2	3.4
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	7863	7.0	7156	5.2	15019	6.0	3.3
3	O80	Single spontaneous delivery	0	0.0	14641	10.6	14641	5.8	3.7
4	O82	Single delivery by caesarean section	0	0.0	12478	9.0	12478	5.0	7.4
5	S09	Other and unspecified injuries of head	7139	6.4	3133	2.3	10272	4.1	3.0
6	K29	Gastritis and duodenitis	4810	4.3	5072	3.7	9882	3.9	3.8
7	A91	Dengue haemorrhagic fever	3641	3.2	3933	2.8	7574	3.0	3.4
8	J18	Pneumonia, organism unspecified	2659	2.4	1846	1.3	4505	1.8	4.3
9	I10	Essential (primary) hypertension	1715	1.5	2608	1.9	4323	1.7	3.6
10	O06	Unspecified abortion	0	0.0	3709	2.7	3709	1.5	2.9
11	P59	Neonatal jaundice from other and unspecified causes	1935	1.7	1613	1.2	3548	1.4	3.6
12	F10	Mental and behavioural disorders due to use of alcohol	3273	2.9	68	0.0	3341	1.3	4.3
13	J06	Acute upper respiratory infections of multiple and unspecified sites	1939	1.7	1351	1.0	3290	1.3	3.7
14	O81	Single delivery by forceps and vacuum extractor	0	0.0	3209	2.3	3209	1.3	4.2
15	T14	Injury of unspecified body region	1982	1.8	1207	0.9	3189	1.3	2.6
	...	All other Causes	64814	57.8	66546	48.0	131360	52.3	4.9
		Total	112232	100	138711	100	250943	100	4.3

Table (55-3) Single Leading Causes of Hospitalization by Sex in Bago Region (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	17931	12.3	17931	6.9	3.3
2	B34	Viral infection of unspecified site	8744	7.6	8233	5.6	16977	6.5	3.4
3	O82	Single delivery by caesarean section	0	0	14502	9.9	14502	5.6	7.1
4	A09	Diarrhoea and gastroenteritis of presumed infectious origin	7234	6.3	7177	4.9	14411	5.5	3.1
5	S09	Other and unspecified injuries of head	8040	7.0	3259	2.2	11299	4.3	3.0
6	K29	Gastritis and duodenitis	5110	4.5	5621	3.8	10731	4.1	3.7
7	J06	Acute upper respiratory infections of multiple and unspecified sites	3384	3.0	3021	2.1	6405	2.5	3.9
8	I10	Essential (primary) hypertension	1874	1.6	2839	1.9	4713	1.8	3.7
9	J18	Pneumonia, organism unspecified	2691	2.4	1840	1.3	4531	1.7	4.6
10	O06	Unspecified abortion	0	0	4440	3.0	4440	1.7	2.9
11	F10	Mental and behavioural disorders due to use of alcohol	4327	3.8	68	0	4395	1.7	4.1
12	P59	Neonatal jaundice from other and unspecified causes	2056	1.8	2158	1.5	4214	1.6	3.3
13	O81	Single delivery by forceps and vacuum extractor	0	0	3293	2.3	3293	1.3	4.1
14	T63	Toxic effect of contact with venomous animals	2374	2.1	840	0.6	3214	1.2	2.4
15	E14	Unspecified diabetes mellitus	761	0.7	2305	1.6	3066	1.2	7.2
	...	All other Causes	67830	59.3	68616	47.0	136446	52.4	5.3
		Total	114425	100	146143	100	260568	100	4.2

Table (56-1) Single Leading Causes of Hospitalization by Sex in Magway Region (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	H26	Other cataract	3561	5.4	5799	6.9	9360	6.2	2.2
2	O82	Single delivery by caesarean section	0	0.0	8664	10.3	8664	5.8	7.5
3	O80	Single spontaneous delivery	0	0.0	8453	10.0	8453	5.6	3.7
4	A09	Diarrhoea and gastroenteritis of presumed infectious origin	3907	5.9	3665	4.4	7572	5.1	3.5
5	S09	Other and unspecified injuries of head	5119	7.8	2044	2.4	7163	4.8	3.2
6	B34	Viral infection of unspecified site	2694	4.1	2714	3.2	5408	3.6	3.5
7	J06	Acute upper respiratory infections of multiple and unspecified sites	2563	3.9	1920	2.3	4483	3.0	4.3
8	K29	Gastritis and duodenitis	1786	2.7	1816	2.2	3602	2.4	4.0
9	A91	Dengue haemorrhagic fever	1484	2.3	1474	1.8	2958	2.0	3.5
10	T14	Injury of unspecified body region	1591	2.4	1119	1.3	2710	1.8	4.0
11	J18	Pneumonia, organism unspecified	1444	2.2	1149	1.4	2593	1.7	4.9
12	O06	Unspecified abortion	0	0.0	2439	2.9	2439	1.6	2.9
13	T63	Toxic effect of contact with venomous animals	1360	2.1	834	1.0	2194	1.5	4.2
14	O81	Single delivery by forceps and vacuum extractor	0	0.0	2081	2.5	2081	1.4	4.9
15	K35	Acute appendicitis	888	1.4	1059	1.3	1947	1.3	6.0
	...	All other Causes	39370	59.9	38938	46.3	78308	52.2	5.3
		Total	65767	100	84168	100	149935	100	4.7

Table (56-2) Single Leading Causes of Hospitalization by Sex in Magway Region (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	H26	Other cataract	6401	7.4	11739	10.3	18140	9.1	2.2
2	O80	Single spontaneous delivery	0	0.0	12368	10.8	12368	6.2	3.6
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	6703	7.8	5435	4.8	12138	6.1	3.6
4	O82	Single delivery by caesarean section	0	0.0	11269	9.9	11269	5.6	7.3
5	S09	Other and unspecified injuries of head	5825	6.8	2429	2.1	8254	4.1	3.2
6	B34	Viral infection of unspecified site	2598	3.0	2757	2.4	5355	2.7	3.7
7	A91	Dengue haemorrhagic fever	1968	2.3	2456	2.2	4424	2.2	3.8
8	K29	Gastritis and duodenitis	1959	2.3	2199	1.9	4158	2.1	4.0
9	J06	Acute upper respiratory infections of multiple and unspecified sites	2075	2.4	1623	1.4	3698	1.8	4.2
10	T14	Injury of unspecified body region	2146	2.5	1454	1.3	3600	1.8	4.1
11	J18	Pneumonia, organism unspecified	1880	2.2	1312	1.2	3192	1.6	5.4
12	T63	Toxic effect of contact with venomous animals	1933	2.2	1241	1.1	3174	1.6	4.1
13	O06	Unspecified abortion	0	0.0	2686	2.4	2686	1.3	3.0
14	O81	Single delivery by forceps and vacuum extractor	0	0.0	2589	2.3	2589	1.3	4.6
15	K35	Acute appendicitis	975	1.1	1596	1.4	2571	1.3	5.4
	...	All other Causes	51477	59.9	50875	44.6	102352	51.2	5.6
		Total	85940	100	114028	100	199968	100	4.6

Table (56-3) Single Leading Causes of Hospitalization by Sex in Magway Region (2016)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	15010	12.0	15010	7.0	3.4
2	O82	Single delivery by caesarean section	0	0	13246	10.6	13246	6.1	6.9
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	4806	5.3	4714	3.8	9520	4.4	3.7
4	B34	Viral infection of unspecified site	4577	5.0	4562	3.7	9139	4.2	3.9
5	S09	Other and unspecified injuries of head	5277	5.8	2464	2.0	7741	3.6	3.3
6	T14	Injury of unspecified body region	4030	4.4	2646	2.1	6676	3.1	4.7
7	K29	Gastritis and duodenitis	3163	3.5	3270	2.6	6433	3.0	4.0
8	J06	Acute upper respiratory infections of multiple and unspecified sites	3802	4.2	2570	2.1	6372	3.0	4.8
9	H25	Senile cataract	2205	2.4	3939	3.2	6144	2.8	2.4
10	O81	Single delivery by forceps and vacuum extractor	0	0	3650	2.9	3650	1.7	4.5
11	H26	Other cataract	1171	1.3	2129	1.7	3300	1.5	2.5
12	R50	Fever of unknown origin	1703	1.9	1597	1.3	3300	1.5	3.8
13	J18	Pneumonia ,organism unspecified	1734	1.9	1384	1.1	3118	1.4	5.6
14	K35	Acute appendicitis	1110	1.2	1977	1.6	3087	1.4	5.2
15	F10	Mental and behavioural disorders due to use of alcohol	2555	2.8	122	0.1	2677	1.2	5.0
	...	All other Causes	54976	60.3	61301	49.2	116277	53.9	5.3
		Total	91109	100	124581	100	215690	100	4.5

Table (57-1) Single Leading Causes of Hospitalization by Sex in Mandalay Region (2014)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	14354	9.5	14354	5.0	3.6
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	7626	5.5	6613	4.4	14239	4.9	3.4
3	O82	Single delivery by caesarean section	0	0	13649	9.1	13649	4.7	7.1
4	S09	Other and unspecified injuries of head	7682	5.6	3126	2.1	10808	3.7	3.1
5	B34	Viral infection of unspecified site	4782	3.5	4610	3.1	9392	3.2	3.6
6	A91	Dengue haemorrhagic fever	3018	2.2	3178	2.1	6196	2.1	3.6
7	H26	Other cataract	2135	1.5	3813	2.5	5948	2.1	3.2
8	J06	Acute upper respiratory infections of multiple and unspecified sites	3244	2.3	2648	1.8	5892	2.0	4.7
9	K29	Gastritis and duodenitis	2478	1.8	2619	1.7	5097	1.8	4.0
10	O06	Unspecified abortion	0	0	4595	3.0	4595	1.6	2.7
11	T14	Injury of unspecified body region	2611	1.9	1723	1.1	4334	1.5	3.3
12	F10	Mental and behavioural disorders due to use of alcohol	4208	3.0	110	0.1	4318	1.5	6.2
13	P59	Neonatal jaundice from other and unspecified causes	2232	1.6	1849	1.2	4081	1.4	4.4
14	J18	Pneumonia, organism unspecified	2339	1.7	1661	1.1	4000	1.4	5.2
15	K35	Acute appendicitis	1595	1.2	1784	1.2	3379	1.2	5.1
	...	All other Causes	94280	68.2	84461	56.0	178741	61.8	6.6
		Total	138230	100	150793	100	289023	100	5.9

Table (57-2) Single Leading Causes of Hospitalization by Sex in Mandalay Region (2015)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0.0	19668	10.7	19668	5.7	4.0
2	A91	Dengue haemorrhagic fever	8004	4.9	8089	4.4	16093	4.6	3.7
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	8457	5.2	7350	4.0	15807	4.6	3.9
4	O82	Single delivery by caesarean section	0	0.0	15678	8.5	15678	4.5	7.2
5	B34	Viral infection of unspecified site	7125	4.4	7100	3.9	14225	4.1	3.8
6	S09	Other and unspecified injuries of head	6900	4.2	2902	1.6	9802	2.8	3.5
7	K29	Gastritis and duodenitis	3338	2.1	3156	1.7	6494	1.9	4.5
8	J06	Acute upper respiratory infections of multiple and unspecified sites	3507	2.2	2538	1.4	6045	1.7	5.0
9	F10	Mental and behavioural disorders due to use of alcohol	5431	3.3	184	0.1	5615	1.6	6.7
10	O06	Unspecified abortion		0.0	4990	2.7	4990	1.4	3.1
11	P59	Neonatal jaundice from other and unspecified causes	2554	1.6	2250	1.2	4804	1.4	4.4
12	S72	Fracture of femur	2732	1.7	1880	1.0	4612	1.3	15.5
13	H26	Other cataract	1389	0.9	2572	1.4	3961	1.1	3.6
14	T63	Toxic effect of contact with venomous animals	2219	1.4	1671	0.9	3890	1.1	4.3
15	P36	Bacterial sepsis of newborn	1986	1.2	1892	1.0	3878	1.1	6.3
	...	All other Causes	108815	67.0	101871	55.4	210686	60.8	7.2
		Total	162457	100	183791	100	346248	100	5.8

Table (57-3) Single Leading Causes of Hospitalization by Sex in Mandalay Region (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	21984	11.0	21984	5.8	3.6
2	O82	Single delivery by caesarean section	0	0	19577	9.8	19577	5.2	6.9
3	B34	Viral infection of unspecified site	8616	4.8	8076	4.1	16692	4.4	3.4
4	A09	Diarrhoea and gastroenteritis of presumed infectious origin	8035	4.5	6721	3.4	14756	3.9	3.3
5	J06	Acute upper respiratory infections of multiple and unspecified sites	7286	4.1	6021	3.0	13307	3.5	4.7
6	S09	Other and unspecified injuries of head	6979	3.9	2755	1.4	9734	2.6	3.1
7	K29	Gastritis and duodenitis	4308	2.4	4166	2.1	8474	2.2	3.6
8	F10	Mental and behavioural disorders due to use of alcohol	6171	3.5	95	0	6266	1.7	6.1
9	T14	Injury of unspecified body region	2985	1.7	2410	1.2	5395	1.4	3.5
10	P36	Bacterial sepsis of newborn	2779	1.6	2345	1.2	5124	1.4	7.0
11	O06	Unspecified abortion	0	0	4937	2.5	4937	1.3	2.6
12	P59	Neonatal jaundice from other and unspecified causes	2391	1.3	1966	1.0	4357	1.2	4.3
13	K35	Acute appendicitis	1775	1.0	2423	1.2	4198	1.1	4.6
14	I10	Essential(primary) hypertension	1683	0.9	2397	1.2	4080	1.1	3.6
15	J22	Unspecified acute lower respiratory infection	1745	1.0	2147	1.1	3892	1.0	5.2
	...	All other Causes	123656	69.3	111373	55.9	235029	62.2	6.5
		Total	178409	100	199393	100	377802	100	5.5

Table (58-1) Single Leading Causes of Hospitalization by Sex in Mon State (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	3509	8.6	3104	6.6	6613	7.5	4.6
2	B34	Viral infection of unspecified site	3402	8.4	3112	6.6	6514	7.4	4.6
3	O80	Single spontaneous delivery	0	0.0	5838	12.4	5838	6.7	3.2
4	S09	Other and unspecified injuries of head	3249	8.0	1325	2.8	4574	5.2	3.2
5	O82	Single delivery by caesarean section	0	0.0	4036	8.6	4036	4.6	7.3
6	J18	Pneumonia, organism unspecified	2027	5.0	1565	3.3	3592	4.1	6.3
7	P59	Neonatal jaundice from other and unspecified causes	1367	3.4	1142	2.4	2509	2.9	5.2
8	J06	Acute upper respiratory infections of multiple and unspecified sites	1214	3.0	1046	2.2	2260	2.6	5.4
9	K29	Gastritis and duodenitis	1061	2.6	1061	2.3	2122	2.4	3.5
10	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	1000	2.5	607	1.3	1607	1.8	6.4
11	E14	Unspecified diabetes mellitus	424	1.0	874	1.9	1298	1.5	6.4
12	O81	Single delivery by forceps and vacuum extractor	0	0.0	1290	2.7	1290	1.5	4.0
13	A91	Dengue haemorrhagic fever	599	1.5	672	1.4	1271	1.4	5.2
14	I10	Essential (primary) hypertension	489	1.2	622	1.3	1111	1.3	4.7
15	O06	Unspecified abortion	0	0.0	1046	2.2	1046	1.2	2.3
	...	All other Causes	22333	54.9	19671	41.8	42004	47.9	5.2
		Total	40674	100	47011	100	87685	100	4.5

Table (58-2) Single Leading Causes of Hospitalization by Sex in Mon State (2015)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	B34	Viral infection of unspecified site	4300	8.6	4543	7.6	8843	8.0	4.1
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	4766	9.5	4052	6.7	8818	8.0	3.8
3	A91	Dengue haemorrhagic fever	3535	7.1	3821	6.4	7356	6.7	4.7
4	O80	Single spontaneous delivery	0	0.0	7124	11.9	7124	6.5	2.9
5	O82	Single delivery by caesarean section	0	0.0	4812	8.0	4812	4.4	7.1
6	S09	Other and unspecified injuries of head	3392	6.8	1391	2.3	4783	4.3	2.5
7	J06	Acute upper respiratory infections of multiple and unspecified sites	1711	3.4	1437	2.4	3148	2.9	5.3
8	K29	Gastritis and duodenitis	1429	2.9	1597	2.7	3026	2.7	3.6
9	P59	Neonatal jaundice from other and unspecified causes	1618	3.2	1404	2.3	3022	2.7	4.9
10	J18	Pneumonia, organism unspecified	1324	2.6	1164	1.9	2488	2.3	5.9
11	E14	Unspecified diabetes mellitus	538	1.1	1366	2.3	1904	1.7	5.5
12	I10	Essential (primary) hypertension	719	1.4	1135	1.9	1854	1.7	3.8
13	T14	Injury of unspecified body region	971	1.9	483	0.8	1454	1.3	2.6
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	845	1.7	601	1.0	1446	1.3	5.8
15	K92	Other diseases of digestive system	967	1.9	429	0.7	1396	1.3	4.7
	...	All other Causes	23893	47.8	24715	41.1	48608	44.2	4.5
		Total	50008	100	60074	100	110082	100	4.2

Table (58-3) Single Leading Causes of Hospitalization by Sex in Mon State (2016)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	5459	11.0	4977	8.2	10436	9.4	4.0
2	B34	Viral infection of unspecified site	4850	9.8	4311	7.1	9161	8.3	3.9
3	O80	Single spontaneous delivery	0	0	8664	14.2	8664	7.8	2.8
4	S09	Other and unspecified injuries of head	3630	7.3	1517	2.5	5147	4.7	2.6
5	J18	Pneumonia, organism unspecified	2680	5.4	1843	3.0	4523	4.1	6.0
6	J06	Acute upper respiratory infections of multiple and unspecified sites	2311	4.7	1872	3.1	4183	3.8	5.1
7	K29	Gastritis and duodenitis	1687	3.4	1844	3.0	3531	3.2	3.3
8	O82	Single delivery by caesarean section	0	0	3162	5.2	3162	2.9	7.3
9	I10	Essential(primary) hypertension	638	1.3	1262	2.1	1900	1.7	3.4
10	O06	Unspecified abortion	0	0	1772	2.9	1772	1.6	2.5
11	P59	Neonatal jaundice from other and unspecified causes	794	1.6	893	1.5	1687	1.5	4.9
12	O81	Single delivery by forceps and vacuum extractor	0	0	1560	2.6	1560	1.4	3.6
13	J45	Asthma	638	1.3	766	1.3	1404	1.3	5.2
14	E14	Unspecified diabetes mellitus	312	0.6	978	1.6	1290	1.2	5.4
15	F10	Mental and behavioural disorders due to use of alcohol	1134	2.3	57	0.1	1191	1.1	3.6
	...	All other Causes	25468	51.3	25453	41.8	50921	46.1	4.4
		Total	49601	100	60931	100	110532	100	4.2

Table (59-1) Single Leading Causes of Hospitalization by Sex in Rakhine State (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	5248	13.1	5248	7.4	3.4
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2724	8.8	2482	6.2	5206	7.3	3.1
3	B34	Viral infection of unspecified site	1607	5.2	1663	4.1	3270	4.6	3.4
4	O82	Single delivery by caesarean section	0	0	3051	7.6	3051	4.3	7.4
5	K29	Gastritis and duodenitis	1365	4.4	1660	4.1	3025	4.3	3.4
6	S09	Other and unspecified injuries of head	1607	5.2	746	1.9	2353	3.3	3.3
7	A91	Dengue haemorrhagic fever	881	2.9	920	2.3	1801	2.5	3.4
8	O06	Unspecified abortion	0	0	1676	4.2	1676	2.4	3.0
9	J18	Pneumonia, organism unspecified	756	2.5	596	1.5	1352	1.9	4.2
10	R50	Fever of unknown origin	602	2.0	566	1.4	1168	1.6	4.1
11	O81	Single delivery by forceps and vacuum extractor	0	0	1048	2.6	1048	1.5	4.7
12	T14	Injury of unspecified body region	681	2.2	304	0.8	985	1.4	4.1
13	K35	Acute appendicitis	445	1.4	501	1.2	946	1.3	6.1
14	I10	Essential (primary) hypertension	396	1.3	517	1.3	913	1.3	3.7
15	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	494	1.6	399	1.0	893	1.3	7.9
	...	All other Causes	19285	62.5	18773	46.8	38058	53.6	4.9
		Total	30843	100	40150	100	70993	100	4.4

Table (59-2) Single Leading Causes of Hospitalization by Sex in Rakhine State (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0.0	6736	13.2	6736	7.6	3.4
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	3360	9.0	3080	6.0	6440	7.3	3.1
3	K29	Gastritis and duodenitis	2057	5.5	2365	4.6	4422	5.0	3.9
4	O82	Single delivery by caesarean section	0	0.0	4146	8.1	4146	4.7	7.1
5	B34	Viral infection of unspecified site	1758	4.7	2034	4.0	3792	4.3	3.7
6	S09	Other and unspecified injuries of head	2139	5.7	937	1.8	3076	3.5	3.7
7	O06	Unspecified abortion	0	0.0	2252	4.4	2252	2.5	3.3
8	T14	Injury of unspecified body region	1252	3.3	646	1.3	1898	2.1	3.8
9	O81	Single delivery by forceps and vacuum extractor	0	0.0	1626	3.2	1626	1.8	3.9
10	J18	Pneumonia, organism unspecified	832	2.2	692	1.4	1524	1.7	4.5
11	A91	Dengue haemorrhagic fever	603	1.6	735	1.4	1338	1.5	4.1
12	K35	Acute appendicitis	587	1.6	716	1.4	1303	1.5	6.6
13	R50	Fever of unknown origin	649	1.7	653	1.3	1302	1.5	4.4
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	793	2.1	447	0.9	1240	1.4	6.1
15	I10	Essential (primary) hypertension	587	1.6	591	1.2	1178	1.3	3.7
	...	All other Causes	22814	60.9	23266	45.7	46080	52.2	4.9
		Total	37431	100	50922	100	88353	100	4.4

Table (59-3) Single Leading Causes of Hospitalization by Sex in Rakhine State (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	7851	14.2	7851	8.1	2.9
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	3909	9.5	3306	6.0	7215	7.5	2.9
3	K29	Gastritis and duodenitis	2167	5.2	2636	4.8	4803	5.0	3.3
4	O82	Single delivery by caesarean section	0	0	4635	8.4	4635	4.8	7.2
5	B34	Viral infection of unspecified site	2178	5.3	2435	4.4	4613	4.8	3.2
6	S09	Other and unspecified injuries of head	2200	5.3	1016	1.8	3216	3.3	3.4
7	J18	Pneumonia, organism unspecified	1139	2.8	927	1.7	2066	2.1	4.6
8	O06	Unspecified abortion	0	0	1832	3.3	1832	1.9	3.0
9	P59	Neonatal jaundice from other and unspecified causes	893	2.2	692	1.3	1585	1.6	3.0
10	O81	Single delivery by forceps and vacuum extractor	0	0	1541	2.8	1541	1.6	3.6
11	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	871	2.1	581	1.1	1452	1.5	6.8
12	J06	Acute upper respiratory infections of multiple and unspecified sites	681	1.6	637	1.2	1318	1.4	4.1
13	I10	Essential (primary) hypertension	514	1.2	760	1.4	1274	1.3	3.3
14	T14	Injury of unspecified body region	782	1.9	491	0.9	1273	1.3	3.4
15	J22	Unspecified acute lower respiratory infection	592	1.4	659	1.2	1251	1.3	5.3
	...	All other Causes	25419	61.5	25162	45.6	50581	52.4	4.9
		Total	41345	100	55161	100	96506	100	4.3

Table (60-1) Single Leading Causes of Hospitalization by Sex in Yangon Region (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	30000	13.2	30000	7.3	4.0
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	10205	5.5	9088	4.0	19293	4.7	3.1
3	S09	Other and unspecified injuries of head	11476	6.2	4632	2.0	16108	3.9	2.9
4	O82	Single delivery by caesarean section	0	0	13856	6.1	13856	3.4	7.2
5	H26	Other cataract	4180	2.3	6335	2.8	10515	2.5	2.1
6	F10	Mental and behavioural disorders due to use of alcohol	10025	5.4	238	0.1	10263	2.5	9.2
7	B34	Viral infection of unspecified site	4581	2.5	4262	1.9	8843	2.1	3.1
8	K29	Gastritis and duodenitis	3912	2.1	4797	2.1	8709	2.1	3.5
9	O06	Unspecified abortion	0	0.0	7572	3.3	7572	1.8	3.0
10	P59	Neonatal jaundice from other and unspecified causes	3759	2.0	3491	1.5	7250	1.8	3.5
11	A91	Dengue haemorrhagic fever	3203	1.7	3009	1.3	6212	1.5	3.2
12	J18	Pneumonia, organism unspecified	3361	1.8	2717	1.2	6078	1.5	4.9
13	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	3705	2.0	2049	0.9	5754	1.4	8.2
14	K35	Acute appendicitis	2264	1.2	2735	1.2	4999	1.2	5.3
15	F39	Unspecified mood [affective] disorder	3294	1.8	1702	0.7	4996	1.2	27.6
	...	All other Causes	121353	65.5	131540	57.7	252893	61.2	7.8
		Total	185318	100	228023	100	413341	100	7.0

Table (60-2) Single Leading Causes of Hospitalization by Sex in Yangon Region (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0.0	35553	13.5	35553	7.4	4.0
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	11228	5.2	10037	3.8	21265	4.5	3.1
3	S09	Other and unspecified injuries of head	14660	6.8	5814	2.2	20474	4.3	3.0
4	O82	Single delivery by caesarean section	0	0.0	15995	6.1	15995	3.3	7.2
5	F10	Mental and behavioural disorders due to use of alcohol	12272	5.7	222	0.1	12494	2.6	8.6
6	K29	Gastritis and duodenitis	5234	2.4	5830	2.2	11064	2.3	3.4
7	H26	Other cataract	4024	1.9	6713	2.6	10737	2.2	2.1
8	B34	Viral infection of unspecified site	5458	2.5	4667	1.8	10125	2.1	3.0
9	A91	Dengue haemorrhagic fever	4990	2.3	4922	1.9	9912	2.1	3.4
10	O06	Unspecified abortion	0	0.0	7971	3.0	7971	1.7	2.8
11	P59	Neonatal jaundice from other and unspecified causes	4064	1.9	3573	1.4	7637	1.6	3.3
12	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	4199	2.0	2129	0.8	6328	1.3	7.8
13	J18	Pneumonia, organism unspecified	3061	1.4	2349	0.9	5410	1.1	5.0
14	K35	Acute appendicitis	2335	1.1	2916	1.1	5251	1.1	5.0
15	I10	Essential (primary) hypertension	2192	1.0	2979	1.1	5171	1.1	4.4
	...	All other Causes	140906	65.7	151201	57.5	292107	61.2	8.1
		Total	214623	100	262871	100	477494	100	6.9

Table (60-3) Single Leading Causes of Hospitalization by Sex in Yangon Region (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	36567	12.7	36567	7.0	3.9
2	H26	Other cataract	7450	3.1	11902	4.1	19352	3.7	2.1
3	S09	Other and unspecified injuries of head	12908	5.4	5172	1.8	18080	3.4	3.1
4	O82	Single delivery by caesarean section	0	0	15662	5.4	15662	3.0	7.0
5	A09	Diarrhoea and gastroenteritis of presumed infectious origin	7820	3.3	6893	2.4	14713	2.8	3.1
6	F10	Mental and behavioural disorders due to use of alcohol	12247	5.2	171	0.1	12418	2.4	8.6
7	B34	Viral infection of unspecified site	5808	2.4	5352	1.9	11160	2.1	2.8
8	P59	Neonatal jaundice from other and unspecified causes	5231	2.2	4876	1.7	10107	1.9	3.0
9	K29	Gastritis and duodenitis	3940	1.7	4139	1.4	8079	1.5	3.4
10	O06	Unspecified abortion	0	0	7324	2.5	7324	1.4	2.7
11	J18	Pneumonia, organism unspecified	3954	1.7	3211	1.1	7165	1.4	5.1
12	I64	Stroke, not specified as haemorrhage or infarction	3933	1.7	2978	1.0	6911	1.3	5.3
13	F39	Unspecified mood [affective] disorder	4156	1.7	2452	0.9	6608	1.3	26.5
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	3917	1.6	2218	0.8	6135	1.2	7.8
15	K35	Acute appendicitis	2604	1.1	3191	1.1	5795	1.1	4.9
	...	All other Causes	163548	68.9	176227	61.1	339775	64.6	7.9
		Total	237516	100	288335	100	525851	100	6.7

Table (61-1) Single Leading Causes of Hospitalization by Sex in Shan State (South) (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	5128	11.9	5128	6.5	4.8
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2753	7.8	2324	5.4	5077	6.5	3.8
3	O82	Single delivery by caesarean section	0	0	4620	10.8	4620	5.9	7.4
4	S09	Other and unspecified injuries of head	2895	8.2	1038	2.4	3933	5.0	3.3
5	K29	Gastritis and duodenitis	1634	4.6	1618	3.8	3252	4.1	4.1
6	B34	Viral infection of unspecified site	1694	4.8	1523	3.5	3217	4.1	4.1
7	J06	Acute upper respiratory infections of multiple and unspecified sites	1214	3.4	962	2.2	2176	2.8	4.5
8	O06	Unspecified abortion	0	0	1776	4.1	1776	2.3	2.8
9	J18	Pneumonia, organism unspecified	874	2.5	703	1.6	1577	2.0	5.1
10	P59	Neonatal jaundice from other and unspecified causes	738	2.1	624	1.5	1362	1.7	3.7
11	F10	Mental and behavioural disorders due to use of alcohol	1252	3.5	63	0.1	1315	1.7	4.8
12	O81	Single delivery by forceps and vacuum extractor	0	0	1069	2.5	1069	1.4	5.5
13	J22	Unspecified acute lower respiratory infection	536	1.5	511	1.2	1047	1.3	5.2
14	B54	Unspecified malaria	596	1.7	429	1.0	1025	1.3	4.3
15	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	678	1.9	341	0.8	1019	1.3	7.7
	...	All other Causes	20549	58.0	20233	47.1	40782	52.0	5.2
		Total	35413	100	42962	100	78375	100	5.1

Table (61-2) Single Leading Causes of Hospitalization by Sex in Shan State (South) (2015)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0.0	8512	15.8	8512	9.0	4.8
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	3719	9.1	2908	5.4	6627	7.0	3.8
3	O82	Single delivery by caesarean section	0	0.0	6429	11.9	6429	6.8	7.2
4	B34	Viral infection of unspecified site	3358	8.2	3007	5.6	6365	6.7	4.1
5	K29	Gastritis and duodenitis	2033	5.0	1983	3.7	4016	4.2	4.0
6	S09	Other and unspecified injuries of head	2611	6.4	870	1.6	3481	3.7	3.4
7	J06	Acute upper respiratory infections of multiple and unspecified sites	1667	4.1	1118	2.1	2785	2.9	4.3
8	O06	Unspecified abortion	0	0.0	1919	3.6	1919	2.0	2.9
9	F10	Mental and behavioural disorders due to use of alcohol	1558	3.8	69	0.1	1627	1.7	4.9
10	I10	Essential (primary) hypertension	663	1.6	870	1.6	1533	1.6	4.0
11	A91	Dengue haemorrhagic fever	762	1.9	727	1.3	1489	1.6	4.0
12	N39	Other disorders of urinary system	653	1.6	781	1.4	1434	1.5	4.4
13	J22	Unspecified acute lower respiratory infection	658	1.6	598	1.1	1256	1.3	5.6
14	I50	Heart failure	475	1.2	663	1.2	1138	1.2	6.3
15	P59	Neonatal jaundice from other and unspecified causes	579	1.4	529	1.0	1108	1.2	4.0
	...	All other Causes	22185	54.2	22955	42.6	45140	47.6	5.4
		Total	40921	100	53938	100	94859	100	4.9

Table (61-3) Single Leading Causes of Hospitalization by Sex in Shan State (South) (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	9343	15.2	9343	8.7	5.1
2	B34	Viral infection of unspecified site	3701	8.1	3655	6.0	7356	6.9	4.7
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	3850	8.4	3471	5.7	7321	6.8	3.9
4	O82	Single delivery by caesarean section	0	0	6390	10.4	6390	6.0	7.3
5	J06	Acute upper respiratory infections of multiple and unspecified sites	2287	5.0	1597	2.6	3884	3.6	4.8
6	K29	Gastritis and duodenitis	1862	4.1	1988	3.2	3850	3.6	6.8
7	S09	Other and unspecified injuries of head	2609	5.7	977	1.6	3586	3.3	4.0
8	J18	Pneumonia, organism unspecified	1620	3.5	1402	2.3	3022	2.8	5.5
9	O06	Unspecified abortion	0	0	2253	3.7	2253	2.1	3.0
10	I10	Essential (primary) hypertension	793	1.7	1011	1.6	1804	1.7	4.1
11	N39	Other disorders of urinary system	667	1.5	1034	1.7	1701	1.6	4.5
12	F10	Mental and behavioural disorders due to use of alcohol	1506	3.3	184	0.3	1690	1.6	5.0
13	J22	Unspecified acute lower respiratory infection	793	1.7	678	1.1	1471	1.4	5.2
14	T07	Unspecified multiple injuries	1057	2.3	391	0.6	1448	1.4	3.7
15	P59	Neonatal jaundice from other and unspecified causes	839	1.8	586	1.0	1425	1.3	4.5
	...	All other Causes	24260	52.9	26330	43.0	50590	47.2	5.6
		Total	45844	100	61290	100	107134	100	4.9

Table (62-1) Single Leading Causes of Hospitalization by Sex in Shan State (North) (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0.0	8693	21.2	8693	11.6	2.8
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2338	6.9	2078	5.1	4416	5.9	3.5
3	S09	Other and unspecified injuries of head	2134	6.3	811	2.0	2945	3.9	3.3
4	O82	Single delivery by caesarean section	0	0.0	2847	6.9	2847	3.8	6.9
5	K29	Gastritis and duodenitis	1363	4.1	1154	2.8	2517	3.4	4.0
6	B34	Viral infection of unspecified site	1303	3.9	1109	2.7	2412	3.2	3.7
7	J06	Acute upper respiratory infections of multiple and unspecified sites	917	2.7	743	1.8	1660	2.2	4.4
8	O06	Unspecified abortion	0	0.0	1588	3.9	1588	2.1	2.6
9	P59	Neonatal jaundice from other and unspecified causes	692	2.1	703	1.7	1395	1.9	2.8
10	I10	Essential (primary) hypertension	591	1.8	756	1.8	1347	1.8	4.1
11	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	842	2.5	315	0.8	1157	1.5	7.6
12	J18	Pneumonia, organism unspecified	649	1.9	492	1.2	1141	1.5	4.4
13	B54	Unspecified malaria	487	1.4	430	1.0	917	1.2	4.4
14	F11	Mental and behavioural disorders due to use of opioids	883	2.6	22	0.1	905	1.2	8.4
15	K35	Acute appendicitis	457	1.4	436	1.1	893	1.2	6.9
	...	All other Causes	20987	62.4	18888	46.0	39875	53.4	5.2
		Total	33643	100	41065	100	74708	100	4.6

Table (62-2) Single Leading Causes of Hospitalization by Sex in Shan State (North) (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0.0	9315	20.8	9315	11.8	3.1
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	2458	7.2	2107	4.7	4565	5.8	3.7
3	B34	Viral infection of unspecified site	1929	5.7	2044	4.6	3973	5.0	3.6
4	S09	Other and unspecified injuries of head	2190	6.4	865	1.9	3055	3.9	3.3
5	O82	Single delivery by caesarean section	0	0.0	2807	6.3	2807	3.6	7.0
6	K29	Gastritis and duodenitis	1241	3.6	1434	3.2	2675	3.4	4.0
7	O06	Unspecified abortion	0	0.0	1793	4.0	1793	2.3	2.8
8	I10	Essential (primary) hypertension	470	1.4	796	1.8	1266	1.6	4.2
9	J06	Acute upper respiratory infections of multiple and unspecified sites	606	1.8	635	1.4	1241	1.6	4.5
10	A91	Dengue haemorrhagic fever	579	1.7	635	1.4	1214	1.5	4.0
11	J22	Unspecified acute lower respiratory infection	649	1.9	527	1.2	1176	1.5	5.2
12	K35	Acute appendicitis	457	1.3	528	1.2	985	1.3	6.5
13	P59	Neonatal jaundice from other and unspecified causes	537	1.6	437	1.0	974	1.2	3.3
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	615	1.8	280	0.6	895	1.1	7.0
15	N39	Other disorders of urinary system	272	0.8	540	1.2	812	1.0	4.3
	...	All other Causes	22005	64.7	19965	44.7	41970	53.3	5.2
		Total	34008	100	44708	100	78716	100	4.5

Table (62-3) Single Leading Causes of Hospitalization by Sex in Shan State(North) (2016)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	11809	21.6	11809	12.4	3.1
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	3166	7.8	3115	5.7	6281	6.6	4.1
3	B34	Viral infection of unspecified site	2209	5.5	2355	4.3	4564	4.8	3.7
4	O82	Single delivery by caesarean section	0	0.0	4065	7.4	4065	4.3	7.5
5	S09	Other and unspecified injuries of head	2618	6.5	1120	2.0	3738	3.9	3.4
6	K29	Gastritis and duodenitis	1628	4.0	1616	3.0	3244	3.4	6.1
7	O06	Unspecified abortion	0	0.0	2093	3.8	2093	2.2	2.9
8	J18	Pneumonia, organism unspecified	992	2.5	842	1.5	1834	1.9	4.7
9	J06	Acute upper respiratory infections of multiple and unspecified sites	891	2.2	786	1.4	1677	1.8	5.1
10	J22	Unspecified acute lower respiratory infection	884	2.2	741	1.4	1625	1.7	4.9
11	P36	Bacterial sepsis of newborn	682	1.7	709	1.3	1391	1.5	4.9
12	I10	Essential (primary) hypertension	488	1.2	755	1.4	1243	1.3	4.0
13	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	838	2.1	284	0.5	1122	1.2	8.2
14	K35	Acute appendicitis	506	1.3	517	0.9	1023	1.1	5.8
15	O81	Single delivery by forceps and vacuum extractor	0	0.0	983	1.8	983	1.0	5.5
	...	All other Causes	25522	63.1	22937	41.9	48459	50.9	5.6
		Total	40424	100.0	54727	100	95151	100	4.5

Table (63-1) Single Leading Causes of Hospitalization by Sex in Shan State (East) (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	2762	19.4	2762	10.6	2.5
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	728	6.2	889	6.2	1617	6.2	3.2
3	O82	Single delivery by caesarean section	0	0	1057	7.4	1057	4.1	5.9
4	K29	Gastritis and duodenitis	521	4.4	530	3.7	1051	4.0	3.5
5	S09	Other and unspecified injuries of head	763	6.5	285	2.0	1048	4.0	2.8
6	B34	Viral infection of unspecified site	346	3.0	333	2.3	679	2.6	3.4
7	J06	Acute upper respiratory infections of multiple and unspecified sites	298	2.5	340	2.4	638	2.5	3.8
8	P59	Neonatal jaundice from other and unspecified causes	369	3.1	246	1.7	615	2.4	3.1
9	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	411	3.5	200	1.4	611	2.4	7.1
10	J18	Pneumonia, organism unspecified	343	2.9	239	1.7	582	2.2	4.7
11	H26	Other cataract	314	2.7	220	1.5	534	2.1	2.0
12	F10	Mental and behavioural disorders due to use of alcohol	459	3.9	16	0.1	475	1.8	5.6
13	O06	Unspecified abortion	0	0	453	3.2	453	1.7	2.0
14	O81	Single delivery by forceps and vacuum extractor	0	0	446	3.1	446	1.7	3.5
15	F11	Mental and behavioural disorders due to use of opioids	340	2.9	42	0.3	382	1.5	15.0
	...	All other Causes	6827	58.3	6213	43.5	13040	50.2	4.4
		Total	11719	100	14271	100	25990	100	4.2

Table (63-2) Single Leading Causes of Hospitalization by Sex in Shan State (East) (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0.0	3281	20.3	3281	11.3	2.5
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1027	7.9	967	6.0	1994	6.8	3.1
3	B34	Viral infection of unspecified site	731	5.6	662	4.1	1393	4.8	3.5
4	O82	Single delivery by caesarean section	0	0.0	1319	8.2	1319	4.5	5.9
5	K29	Gastritis and duodenitis	639	4.9	569	3.5	1208	4.1	3.7
6	S09	Other and unspecified injuries of head	694	5.3	255	1.6	949	3.3	3.0
7	J06	Acute upper respiratory infections of multiple and unspecified sites	444	3.4	356	2.2	800	2.7	4.3
8	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	403	3.1	199	1.2	602	2.1	6.5
9	O81	Single delivery by forceps and vacuum extractor	0	0.0	560	3.5	560	1.9	4.2
10	O06	Unspecified abortion	0	0.0	467	2.9	467	1.6	2.0
11	F10	Mental and behavioural disorders due to use of alcohol	440	3.4	19	0.1	459	1.6	5.0
12	I10	Essential (primary) hypertension	259	2.0	199	1.2	458	1.6	3.0
13	P59	Neonatal jaundice from other and unspecified causes	259	2.0	180	1.1	439	1.5	3.9
14	K35	Acute appendicitis	204	1.6	199	1.2	403	1.4	4.9
15	K92	Other diseases of digestive system	301	2.3	69	0.4	370	1.3	3.8
	...	All other Causes	7572	58.4	6879	42.5	14451	49.6	4.8
		Total	12973	100	16180	100	29153	100	4.4

Table (63-3) Single Leading Causes of Hospitalization by Sex in Shan State (East) (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	3273	18.8	3273	10.4	2.6
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1125	8.0	1080	6.2	2205	7.0	3.4
3	O82	Single delivery by caesarean section	0	0	1378	7.9	1378	4.4	5.1
4	B34	Viral infection of unspecified site	655	4.7	609	3.5	1264	4.0	3.5
5	K29	Gastritis and duodenitis	597	4.2	597	3.4	1194	3.8	3.9
6	S09	Other and unspecified injuries of head	792	5.6	356	2.0	1148	3.6	3.4
7	J06	Acute upper respiratory infections of multiple and unspecified sites	540	3.8	402	2.3	942	3.0	3.6
8	I10	Essential (primary) hypertension	253	1.8	505	2.9	758	2.4	4.2
9	O81	Single delivery by forceps and vacuum extractor	0	0	712	4.1	712	2.3	3.8
10	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	356	2.5	241	1.4	597	1.9	7.9
11	J18	Pneumonia, organism unspecified	299	2.1	207	1.2	506	1.6	4.3
12	P36	Bacterial sepsis of newborn	299	2.1	207	1.2	506	1.6	3.3
13	H26	Other cataract	207	1.5	264	1.5	471	1.5	1.3
14	O47	False labour	0	0	459	2.6	459	1.5	3.0
15	F10	Mental and behavioural disorders due to use of alcohol	402	2.9	0	0	402	1.3	4.8
	...	All other Causes	8533	60.7	7109	40.9	15642	49.7	4.9
		Total	14058	100	17399	100	31457	100	4.4

Table (64-1) Single Leading Causes of Hospitalization by Sex in Ayeyawady (2014)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O82	Single delivery by caesarean section	0	0	14681	11.7	14681	6.8	7.5
2	O80	Single spontaneous delivery	0	0	13931	11.1	13931	6.4	3.8
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	6362	7.0	5710	4.5	12072	5.6	3.8
4	B34	Viral infection of unspecified site	5490	6.0	5309	4.2	10799	5.0	3.9
5	K29	Gastritis and duodenitis	3546	3.9	4740	3.8	8286	3.8	4.2
6	S09	Other and unspecified injuries of head	4474	4.9	1724	1.4	6198	2.9	3.5
7	J18	Pneumonia, organism unspecified	2951	3.2	2474	2.0	5425	2.5	5.0
8	J06	Acute upper respiratory infections of multiple and unspecified sites	2898	3.2	2378	1.9	5276	2.4	4.7
9	A91	Dengue haemorrhagic fever	2296	2.5	2401	1.9	4697	2.2	3.7
10	O06	Unspecified abortion	0	0	4345	3.5	4345	2.0	3.2
11	T14	Injury of unspecified body region	2217	2.4	1319	1.1	3536	1.6	2.9
12	I10	Essential (primary) hypertension	1408	1.5	2122	1.7	3530	1.6	4.7
13	O81	Single delivery by forceps and vacuum extractor	0	0	3240	2.6	3240	1.5	4.5
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	1720	1.9	1217	1.0	2937	1.4	7.1
15	P59	Neonatal jaundice from other and unspecified causes	1507	1.6	1270	1.0	2777	1.3	3.4
	...	All other Causes	56518	61.8	58683	46.7	115201	53.1	5.3
		Total	91387	100	125544	100	216931	100	4.9

Table (64-2) Single Leading Causes of Hospitalization by Sex in Ayeyawady (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	A09	Diarrhoea and gastroenteritis of presumed infectious origin	9536	8.2	8883	5.7	18419	6.8	3.7
2	O80	Single spontaneous delivery	0	0.0	17954	11.5	17954	6.6	3.7
3	O82	Single delivery by caesarean section	0	0.0	16919	10.9	16919	6.2	7.5
4	B34	Viral infection of unspecified site	8395	7.2	8285	5.3	16680	6.1	3.9
5	A91	Dengue haemorrhagic fever	6028	5.2	6124	3.9	12152	4.5	3.5
6	K29	Gastritis and duodenitis	4018	3.4	5522	3.6	9540	3.5	4.0
7	S09	Other and unspecified injuries of head	5434	4.7	2303	1.5	7737	2.8	3.1
8	J18	Pneumonia, organism unspecified	2731	2.3	2395	1.5	5126	1.9	5.1
9	O06	Unspecified abortion	0	0.0	4552	2.9	4552	1.7	3.2
10	I10	Essential (primary) hypertension	1857	1.6	2543	1.6	4400	1.6	4.2
11	J06	Acute upper respiratory infections of multiple and unspecified sites	2262	1.9	1954	1.3	4216	1.5	4.8
12	P59	Neonatal jaundice from other and unspecified causes	2129	1.8	1871	1.2	4000	1.5	4.2
13	O81	Single delivery by forceps and vacuum extractor	0	0.0	3540	2.3	3540	1.3	4.2
14	T14	Injury of unspecified body region	2166	1.9	1310	0.8	3476	1.3	3.0
15	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	2074	1.8	1149	0.7	3223	1.2	7.6
	...	All other Causes	69939	60.0	70153	45.1	140092	51.5	5.3
		Total	116569	100	155457	100	272026	100	4.6

Table (64-3) Single Leading Causes of Hospitalization by Sex in Ayeyawady (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	20621	12.5	20621	7.4	3.6
2	O82	Single delivery by caesarean section	0	0	18787	11.4	18787	6.7	7.5
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	7918	6.9	7368	4.5	15286	5.5	3.6
4	B34	Viral infection of unspecified site	7335	6.4	6801	4.1	14136	5.1	3.7
5	K29	Gastritis and duodenitis	4351	3.8	6451	3.9	10802	3.9	3.8
6	S09	Other and unspecified injuries of head	5751	5.0	2051	1.2	7802	2.8	3.4
7	J18	Pneumonia, organism unspecified	4101	3.6	3534	2.1	7635	2.7	5.1
8	J06	Acute upper respiratory infections of multiple and unspecified sites	3467	3.0	2951	1.8	6418	2.3	4.8
9	O06	Unspecified abortion	0	0	5268	3.2	5268	1.9	3.1
10	I10	Essential (primary) hypertension	2334	2.0	2901	1.8	5235	1.9	3.9
11	T14	Injury of unspecified body region	2517	2.2	2017	1.2	4534	1.6	2.1
12	P59	Neonatal jaundice from other and unspecified causes	2317	2.0	2117	1.3	4434	1.6	4.8
13	F10	Mental and behavioural disorders due to use of alcohol	4118	3.6	50	0.0	4168	1.5	3.9
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	2450	2.1	1550	0.9	4000	1.4	7.9
15	O81	Single delivery by forceps and vacuum extractor	0	0	3617	2.2	3617	1.3	4.0
	...	All other Causes	67879	59.3	79214	47.9	147093	52.6	4.9
		Total	114538	100	165298	100	279836	100	4.6

Table (65-1) Single Leading Causes of Hospitalization by Sex in Nay Pyi Taw (2014)

Sr. No.	ICD-10 Code	C a u s e s	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	3310	11.1	3310	5.8	3.4
2	O82	Single delivery by caesarean section	0	0	1973	6.6	1973	3.4	6.9
3	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1006	3.7	929	3.1	1935	3.4	3.0
4	H26	Other cataract	615	2.3	898	3.0	1513	2.6	3.0
5	S09	Other and unspecified injuries of head	1055	3.9	387	1.3	1442	2.5	2.9
6	P59	Neonatal jaundice from other and unspecified causes	631	2.3	544	1.8	1175	2.1	3.4
7	B34	Viral infection of unspecified site	608	2.2	566	1.9	1174	2.1	3.0
8	K29	Gastritis and duodenitis	591	2.2	449	1.5	1040	1.8	3.4
9	J18	Pneumonia, organism unspecified	605	2.2	431	1.4	1036	1.8	5.3
10	O06	Unspecified abortion	0	0	956	3.2	956	1.7	2.8
11	E87	Other disorders of fluid, electrolyte and acid-base balance	206	0.8	704	2.4	910	1.6	3.4
12	S52	Fracture of forearm	542	2.0	292	1.0	834	1.5	3.9
13	I10	Essential (primary) hypertension	339	1.2	476	1.6	815	1.4	4.2
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	486	1.8	241	0.8	727	1.3	6.6
15	K35	Acute appendicitis	353	1.3	374	1.3	727	1.3	4.4
	...	All other Causes	20254	74.2	17376	58.1	37630	65.8	6.1
		Total	27291	100	29906	100	57197	100	5.0

Table (65-2) Single Leading Causes of Hospitalization by Sex in Nay Pyi Taw (2015)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0.0	5305	13.6	5305	7.6	3.3
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1321	4.2	1211	3.1	2532	3.6	3.1
3	E87	Other disorders of fluid, electrolyte and acid-base balance	450	1.4	2068	5.3	2518	3.6	3.7
4	B34	Viral infection of unspecified site	1199	3.8	1062	2.7	2261	3.2	2.7
5	A91	Dengue haemorrhagic fever	915	2.9	1176	3.0	2091	3.0	3.1
6	O82	Single delivery by caesarean section	0	0.0	1885	4.8	1885	2.7	6.8
7	S09	Other and unspecified injuries of head	1138	3.6	432	1.1	1570	2.2	2.8
8	K29	Gastritis and duodenitis	706	2.3	602	1.5	1308	1.9	3.6
9	H26	Other cataract	482	1.5	724	1.9	1206	1.7	2.8
10	P59	Neonatal jaundice from other and unspecified causes	598	1.9	509	1.3	1107	1.6	3.5
11	O06	Unspecified abortion	0	0.0	1032	2.7	1032	1.5	3.0
12	J18	Pneumonia, organism unspecified	569	1.8	438	1.1	1007	1.4	4.6
13	S06	Intracranial injury	644	2.1	243	0.6	887	1.3	6.6
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	526	1.7	316	0.8	842	1.2	5.5
15	T63	Toxic effect of contact with venomous animals	467	1.5	324	0.8	791	1.1	4.4
	...	All other Causes	22168	71.1	21560	55.4	43728	62.4	5.7
		Total	31183	100	38887	100	70070	100	5.1

Table (65-3) Single Leading Causes of Hospitalization by Sex in Nay Pyi Taw (2016)

Sr. No.	ICD-10 Code	Causes	Male		Female		Total		Average duration of stay
			No.	%	No.	%	No.	%	
1	O80	Single spontaneous delivery	0	0	5877	13.3	5877	7.2	3.0
2	A09	Diarrhoea and gastroenteritis of presumed infectious origin	1730	4.7	1307	3.0	3037	3.7	2.8
3	O82	Single delivery by caesarean section	0	0	2652	6.0	2652	3.3	7.1
4	B34	Viral infection of unspecified site	1221	3.3	993	2.2	2214	2.7	3.0
5	E87	Other disorders of fluid, electrolyte and acid-base balance	527	1.4	1517	3.4	2044	2.5	3.3
6	S09	Other and unspecified injuries of head	1350	3.7	551	1.2	1901	2.3	2.2
7	K29	Gastritis and duodenitis	697	1.9	826	1.9	1523	1.9	3.1
8	O06	Unspecified abortion	0	0	1290	2.9	1290	1.6	2.8
9	H26	Other cataract	497	1.3	769	1.7	1266	1.6	2.2
10	J18	Pneumonia, organism unspecified	703	1.9	512	1.2	1215	1.5	4.3
11	I10	Essential (primary) hypertension	552	1.5	655	1.5	1207	1.5	3.7
12	O81	Single delivery by forceps and vacuum extractor	0	0	1084	2.4	1084	1.3	3.2
13	J22	Unspecified acute lower respiratory infection	573	1.6	451	1.0	1024	1.3	4.0
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	570	1.5	413	0.9	983	1.2	5.4
15	P59	Neonatal jaundice from other and unspecified causes	600	1.6	379	0.9	979	1.2	3.3
	...	All other Causes	27903	75.6	25005	56.5	52908	65.2	5.6
		Total	36923	100	44281	100	81204	100	5.1

OUTPATIENT MORBIDITY STATISTICS

PART B

This section presents outpatient morbidity statistics collected from various outpatient departments all over the country for one day attendance in every season of the year, summer, rainy and winter. Ten percent of attendances of all outpatient departments are described in the following tables.

**Table (66-1) Single leading causes of outpatient morbidity statistics, 2014
[Summer Season]**

Sr. No.	ICD-10 Basic Code	Causes	Male		Female		Total	
			No.	%	No.	%	No.	%
1	270	Other symptoms, signs and abnormal clinical and laboratory findings	113	13.5	187	15.5	300	14.7
2	294	Antenatal screening and other supervision of pregnancy	0	0.0	236	19.5	236	11.5
3	281	Other injuries of specified, unspecified and multiple body regions	102	12.2	50	4.1	152	7.4
4	145	Essential (primary) hypertension	53	6.3	85	7.0	138	6.8
5	268	Fever of unknown origin	63	7.5	45	3.7	108	5.3
6	005	Diarrhoea and gastroenteritis of presumed infectious origin	44	5.3	32	2.6	76	3.7
7	167	Other acute upper respiratory infections	43	5.1	26	2.2	69	3.4
8	041	Other viral diseases	24	2.9	29	2.4	53	2.6
9	179	Other diseases of the respiratory system	28	3.4	23	1.9	51	2.5
10	104	Diabetes mellitus	11	1.3	33	2.7	44	2.2
11	267	Abdominal and pelvic pain	20	2.4	24	2.0	44	2.2
12	184	Gastritis and duodenitis	21	2.5	20	1.7	41	2.0
13	098	Other anaemias	7	0.8	33	2.7	40	2.0
14	007	Respiratory tuberculosis	19	2.3	16	1.3	35	1.7
15	217	Other diseases of the urinary system	14	1.7	18	1.5	32	1.6
		All Other Causes	273	32.7	352	29.1	625	30.6
		Total	835	100	1209	100	2044	100

Note: Outpatient morbidity statistics represent 10% of attendance during one day of each season.

**Table (66-2) Single leading causes of outpatient morbidity statistics, 2015
[Summer Season]**

Sr. No.	ICD-10 Basic Code	Causes	Male		Female		Total	
			No.	%	No.	%	No.	%
1	270	Other symptoms, signs and abnormal clinical and laboratory findings,	208	16.7	229	15.3	437	15.9
2	294	Antenatal screening and other supervision of pregnancy	0	0.0	269	17.9	269	9.8
3	145	Essential (primary) hypertension	103	8.3	99	6.6	202	7.4
4	268	Fever of unknown origin	112	9.0	83	5.5	195	7.1
5	281	Other injuries of specified, unspecified and multiple body regions	86	6.9	57	3.8	143	5.2
6	167	Other acute upper respiratory infections	62	5.0	47	3.1	109	4.0
7	005	Diarrhoea and gastroenteritis of presumed infectious origin	54	4.3	37	2.5	91	3.3
8	179	Other diseases of the respiratory system	42	3.4	43	2.9	85	3.1
9	267	Abdominal and pelvic pain	33	2.6	44	2.9	77	2.8
10	041	Other viral diseases	32	2.6	32	2.1	64	2.3
11	184	Gastritis and duodenitis	37	3.0	26	1.7	63	2.3
12	206	Other dorsopathies	29	2.3	26	1.7	55	2.0
13	007	Respiratory tuberculosis	32	2.6	13	0.9	45	1.6
14	104	Diabetes mellitus	15	1.2	27	1.8	42	1.5
15	098	Other anaemias	10	0.8	31	2.1	41	1.5
		All Other Causes	392	31.4	436	29.1	828	30.2
		Total	1247	100	1499	100	2746	100

Note: Outpatient morbidity statistics represent 10% of attendance during one day of each season.

**Table (66-3) Single leading causes of outpatient morbidity statistics, 2016
[Summer Season]**

Sr. No.	ICD-10 Basic Code	Causes	Male		Female		Total	
			No.	%	No.	%	No.	%
1	270	Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	186	16.2	294	18.0	480	17.3
2	294	Antenatal screening and other supervision of pregnancy	0	0.0	245	15.0	245	8.8
3	145	Essential (primary) hypertension	97	8.5	134	8.2	231	8.3
4	281	Other injuries of specified, unspecified and multiple body regions	118	10.3	54	3.3	172	6.2
5	268	Fever of unknown origin	75	6.5	79	4.8	154	5.5
6	267	Abdominal and pelvic pain	50	4.4	61	3.7	111	4.0
7	167	Other acute upper respiratory infections	64	5.6	46	2.8	110	4.0
8	005	Diarrhoea and gastroenteritis of presumed infectious origin	52	4.5	54	3.3	106	3.8
9	041	Other viral diseases	55	4.8	32	2.0	87	3.1
10	179	Other diseases of the respiratory system	44	3.8	27	1.7	71	2.6
11	293	Contraceptive management	2	0.2	54	3.3	56	2.0
12	007	Respiratory tuberculosis	31	2.7	21	1.3	52	1.9
13	104	Diabetes mellitus	14	1.2	38	2.3	52	1.9
14	184	Gastritis and duodenitis	20	1.7	30	1.8	50	1.8
15	198	Infections of the skin and subcutaneous tissue	30	2.6	20	1.2	50	1.8
		All Other Causes	309	26.9	443	27.1	752	27.1
		Total	1147	100	1632	100	2779	100

Note: Outpatient morbidity statistics represent 10% of attendance during one day of each season.

**Table (67-1) Single leading causes of outpatient morbidity statistics, 2014
[Rainy Season]**

Sr. No.	ICD-10 Basic Code	Causes	Male		Female		Total	
			No.	%	No.	%	No.	%
1	270	Other symptoms, signs and abnormal clinical and laboratory findings,	99	14.1	179	15.7	278	15.1
2	294	Antenatal screening and other supervision of pregnancy	0	0.0	162	14.2	162	8.8
3	145	Essential (primary) hypertension	60	8.5	92	8.1	152	8.3
4	167	Other acute upper respiratory infections	50	7.1	50	4.4	100	5.4
5	041	Other viral diseases						
6	268	Fever of unknown origin	51	7.3	42	3.7	93	5.0
7	281	Other injuries of specified, unspecified and multiple body regions	57	8.1	25	2.2	82	4.5
8	179	Other diseases of the respiratory system	36	5.1	30	2.6	66	3.6
9	005	Diarrhoea and gastroenteritis of presumed infectious origin	29	4.1	25	2.2	54	2.9
10	104	Diabetes mellitus	9	1.3	29	2.5	38	2.1
11	184	Gastritis and duodenitis	13	1.9	22	1.9	35	1.9
12	168	Influenza	13	1.9	21	1.8	34	1.8
13	098	Other anaemias	6	0.9	25	2.2	31	1.7
14	267	Abdominal and pelvic pain	14	2.0	17	1.5	31	1.7
15	198	Infections of the skin and subcutaneous tissue	9	1.3	21	1.8	30	1.6
		All Other Causes	256	36.5	400	35.1	656	35.6
		Total	702	100	1140	100	1842	100

Note: Outpatient morbidity statistics represent 10% of attendance during one day of each season.

**Table (67-2) Single leading causes of outpatient morbidity statistics, 2015
[Rainy Season]**

Sr. No.	ICD-10 Basic Code	Causes	Male		Female		Total	
			No.	%	No.	%	No.	%
1	270	Other symptoms, signs and abnormal clinical and laboratory findings,	147	14.4	247	16.1	394	15.4
2	268	Fever of unknown origin	109	10.7	105	6.8	214	8.4
3	294	Antenatal screening and other supervision of pregnancy	0	0.0	212	13.8	212	8.3
4	145	Essential (primary) hypertension	79	7.7	115	7.5	194	7.6
5	041	Other viral diseases	74	7.3	79	5.1	153	6.0
6	167	Other acute upper respiratory infections	68	6.7	57	3.7	125	4.9
7	281	Other injuries of specified, unspecified and multiple body regions	68	6.7	44	2.9	112	4.4
8	005	Diarrhoea and gastroenteritis of presumed infectious origin	37	3.6	37	2.4	74	2.9
9	179	Other diseases of the respiratory system	34	3.3	39	2.5	73	2.9
10	267	Abdominal and pelvic pain	28	2.7	44	2.9	72	2.8
11	104	Diabetes mellitus	7	0.7	41	2.7	48	1.9
12	184	Gastritis and duodenitis	14	1.4	32	2.1	46	1.8
13	198	Infections of the skin and subcutaneous tissue	28	2.7	16	1.0	44	1.7
14	206	Other dorsopathies	17	1.7	25	1.6	42	1.6
15	007	Respiratory tuberculosis	15	1.5	21	1.4	36	1.4
		All Other Causes	295	28.9	424	27.6	719	28.1
		Total	1020	100	1538	100	2558	100

Note: Outpatient morbidity statistics represent 10% of attendance during one day of each season.

**Table (67-3) Single leading causes of outpatient morbidity statistics, 2016
[Rainy Season]**

Sr. No.	ICD-10 Basic Code	Causes	Male		Female		Total	
			No.	%	No.	%	No.	%
1	270	Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	172	15.9	246	15.5	418	15.6
2	294	Antenatal screening and other supervision of pregnancy	0	0.0	219	13.8	219	8.2
3	268	Fever of unknown origin	106	9.8	110	6.9	216	8.1
4	145	Essential (primary) hypertension	89	8.2	121	7.6	210	7.9
5	041	Other viral diseases	101	9.3	75	4.7	176	6.6
6	167	Other acute upper respiratory infections	81	7.5	85	5.4	166	6.2
7	281	Other injuries of specified, unspecified and multiple body regions	84	7.7	36	2.3	120	4.5
8	267	Abdominal and pelvic pain	38	3.5	46	2.9	84	3.1
9	179	Other diseases of the respiratory system	29	2.7	43	2.7	72	2.7
10	184	Gastritis and duodenitis	30	2.8	36	2.3	66	2.5
11	104	Diabetes mellitus	11	1.0	52	3.3	63	2.4
12	005	Diarrhoea and gastroenteritis of presumed infectious origin	22	2.0	33	2.1	55	2.1
13	293	Contraceptive management	0	0.0	49	3.1	49	1.8
14	198	Infections of the skin and subcutaneous tissue	21	1.9	19	1.2	40	1.5
15	236	Other pregnancies with abortive outcome	0	0.0	30	1.9	30	1.1
		All Other Causes	300	27.7	388	24.4	688	25.7
		Total	1084	100	1588	100	2672	100

Note: Outpatient morbidity statistics represent 10% of attendance during one day of each season.

**Table (68-1) Single leading causes of outpatient morbidity statistics, 2014
[Winter Season]**

Sr. No.	ICD-10 Basic Code	Causes	Male		Female		Total	
			No.	%	No.	%	No.	%
1	270	Other symptoms, signs and abnormal clinical and laboratory findings	53	10.0	128	14.0	181	12.5
2	294	Antenatal screening and other supervision of pregnancy	0	0.0	151	16.5	151	10.5
3	145	Essential (primary) hypertension	40	7.6	78	8.5	118	8.2
4	281	Other injuries of specified, unspecified and multiple body regions	64	12.1	40	4.4	104	7.2
5	167	Other acute upper respiratory infections	35	6.6	28	3.1	63	4.4
6	268	Fever of unknown origin	31	5.9	26	2.8	57	3.9
7	041	Other viral diseases	22	4.2	32	3.5	54	3.7
8	179	Other diseases of the respiratory system	21	4.0	28	3.1	49	3.4
9	184	Gastritis and duodenitis	13	2.5	21	2.3	34	2.4
10	206	Other dorsopathies	15	2.8	18	2.0	33	2.3
11	267	Abdominal and pelvic pain	11	2.1	22	2.4	33	2.3
12	104	Diabetes mellitus	7	1.3	24	2.6	31	2.1
13	005	Diarrhoea and gastroenteritis of presumed infectious origin	18	3.4	10	1.1	28	1.9
14	181	Other disorder of teeth and supporting structures	9	1.7	10	1.1	19	1.3
15	098	Other anaemias	5	0.9	13	1.4	18	1.2
		All Other Causes	185	35.0	286	31.3	471	32.6
		Total	529	100	915	100	1444	100

Note: Outpatient morbidity statistics represent 10% of attendance during one day of each season.

**Table (68-2) Single leading causes of outpatient morbidity statistics, 2015
[Winter Season]**

Sr. No.	ICD-10 Basic Code	Causes	Male		Female		Total	
			No.	%	No.	%	No.	%
1	270	Other symptoms, signs and abnormal clinical and laboratory findings,	116	17.1	156	15.3	272	16.0
2	145	Essential (primary) hypertension	64	9.5	87	8.5	151	8.9
3	294	Antenatal screening and other supervision of pregnancy	0	0.0	140	13.7	140	8.2
4	268	Fever of unknown origin	52	7.7	41	4.0	93	5.5
5	167	Other acute upper respiratory infections	38	5.6	51	5.0	89	5.2
6	281	Other injuries of specified, unspecified and multiple body regions	42	6.2	22	2.2	64	3.8
7	041	Other viral diseases	30	4.4	32	3.1	62	3.7
8	005	Diarrhoea and gastroenteritis of presumed infectious origin	29	4.3	26	2.5	55	3.2
9	267	Abdominal and pelvic pain	14	2.1	38	3.7	52	3.1
10	179	Other diseases of the respiratory system	22	3.2	20	2.0	42	2.5
11	184	Gastritis and duodenitis	18	2.7	20	2.0	38	2.2
12	206	Other dorsopathies	11	1.6	22	2.2	33	1.9
13	133	Cataract and other disorders of lens	13	1.9	19	1.9	32	1.9
14	293	Contraceptive management	1	0.1	31	3.0	32	1.9
15	104	Diabetes mellitus	5	0.7	19	1.9	24	1.4
		All Other Causes	222	32.8	296	29.0	518	30.5
		Total	677	100	1020	100	1697	100

Note: Outpatient morbidity statistics represent 10% of attendance during one day of each season.

**Table (68-3) Single leading causes of outpatient morbidity statistics, 2016
[Winter Season]**

Sr. No.	ICD-10 Basic Code	Causes	Male		Female		Total	
			No.	%	No.	%	No.	%
1	270	Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	104	13.7	188	15.8	292	15.0
2	145	Essential (primary) hypertension	86	11.3	98	8.2	184	9.4
3	294	Antenatal screening and other supervision of pregnancy	0	0.0	148	12.4	148	7.6
4	167	Other acute upper respiratory infections	59	7.8	62	5.2	121	6.2
5	281	Other injuries of specified, unspecified and multiple body regions	86	11.3	35	2.9	121	6.2
6	268	Fever of unknown origin	44	5.8	46	3.9	90	4.6
7	267	Abdominal and pelvic pain	30	4.0	44	3.7	74	3.8
8	179	Other diseases of the respiratory system	32	4.2	32	2.7	64	3.3
9	104	Diabetes mellitus	11	1.4	46	3.9	57	2.9
10	041	Other viral diseases	28	3.7	28	2.4	56	2.9
11	293	Contraceptive management	1	0.1	49	4.1	50	2.6
12	005	Diarrhoea and gastroenteritis of presumed infectious origin	18	2.4	30	2.5	48	2.5
13	184	Gastritis and duodenitis	24	3.2	19	1.6	43	2.2
14	198	Infections of the skin and subcutaneous tissue	15	2.0	18	1.5	33	1.7
15	181	Other disorders of teeth and supporting structures	9	1.2	18	1.5	27	1.4
		All Other Causes	212	27.9	329	27.6	541	27.8
		Total	759	100	1190	100	1949	100

Note: Outpatient morbidity statistics represent 10% of attendance during one day of each season.

SECTION III

PRIVATE HOSPITAL STATISTICS

PRIVATE HOSPITAL STATISTICS

During 2016, 187 registered private hospitals from 15 Regions and States are reporting hospital information. The reporting status together with number of registered private hospitals is illustrated in the following figure. One private hospital from Rakhine and Shan (East) is found to have full response rate. Ninety-one percent of registered hospitals in Bago Region are reporting during 2016. Yangon had the highest number of private hospitals and the reporting status is 65.8%. Shan (South), Shan (North) and Kayin has the lowest response rate.

Figure (75) Reporting Status of the Private Hospitals by Regions and States (2016)

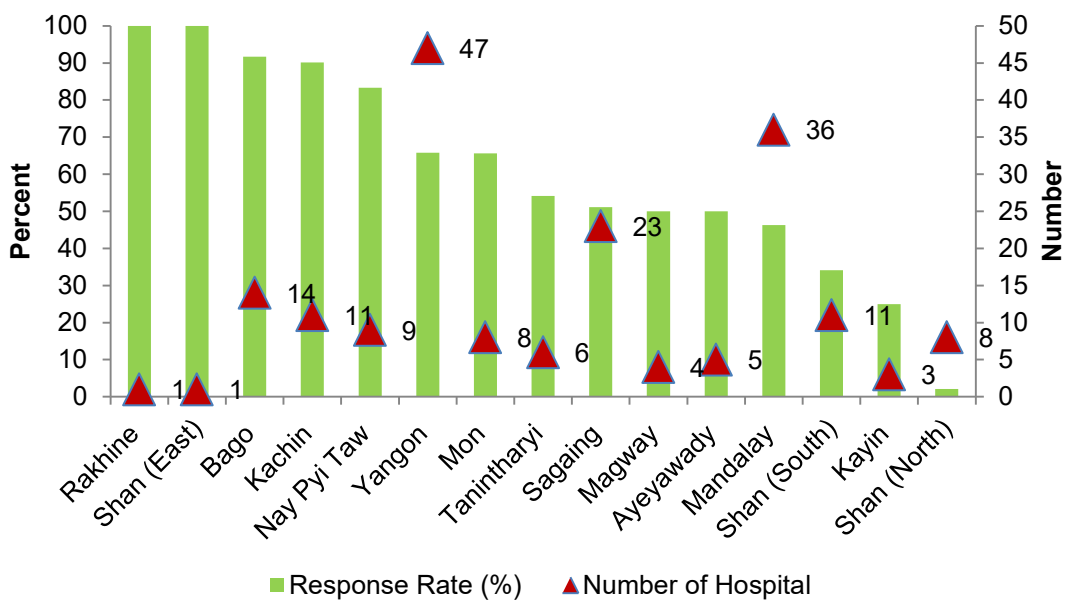
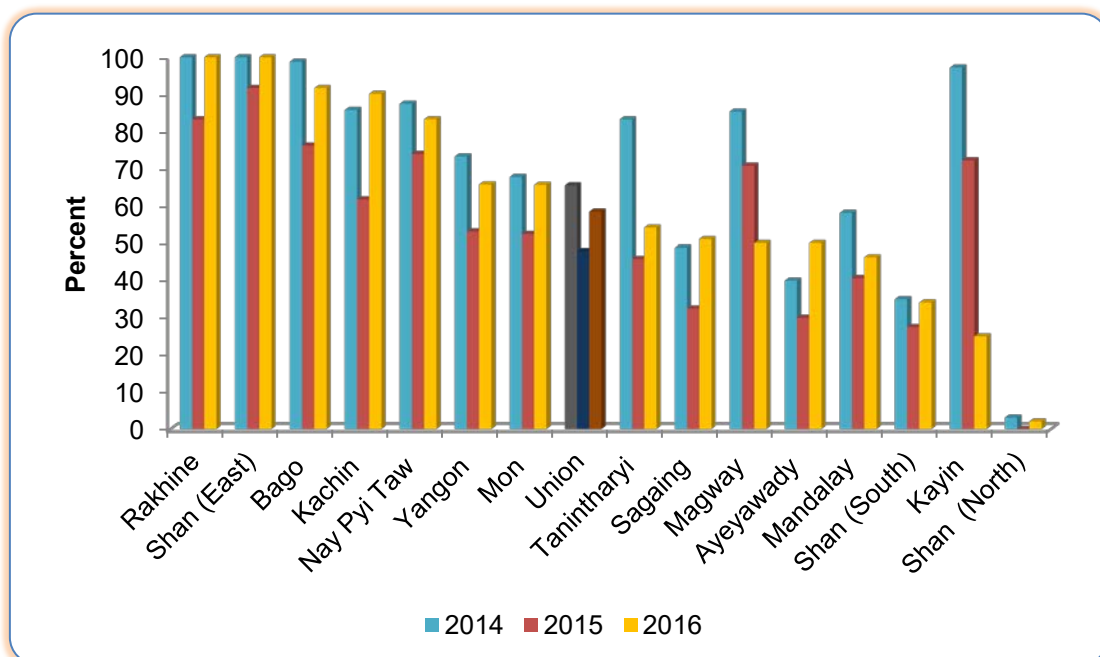


Figure (76) Reporting Rate (%) of Private Hospitals (2014-2016)



According to Figure (76), Reporting rate of Tanintharyi, Magway and Kayin is found to have significant fall in reporting status during 2014-16.

Table (69) Reporting Status of the Private Hospitals by the Number of Months Reported (2016)

Region and State	Number of hospitals by months reported								Total hospitals	Response rate (%)
	12 Months		6-11 Months		1-5 Months		0-Month			
	No.	%	No.	%	No.	%	No.	%		
Kachin	9	12.3	1	2.6	0	0	1	1.5	11	90.2
Kayin	0	0.0	1	2.6	0	0	2	3.0	3	25.0
Sagaing	7	9.6	5	12.8	1	12.5	10	14.9	23	51.1
Tanintharyi	2	2.7	1	2.6	1	12.5	2	3.0	6	54.2
Bago	10	13.7	3	7.7	1	12.5	0	0.0	14	91.7
Magway	2	2.7	0	0.0	0	0	2	3.0	4	50.0
Mandalay	10	13.7	7	17.9	2	25	17	25.4	36	46.3
Mon	3	4.1	2	5.1	1	12.5	2	3.0	8	65.6
Rakhine	1	1.4	0	0.0	0	0	0	0.0	1	100.0
Yangon	20	27.4	12	30.8	1	12.5	14	20.9	47	65.8
Shan (South)	2	2.7	2	5.1	0	0	7	10.4	11	34.1
Shan (North)	0	0.0	0	0.0	1	12.5	7	10.4	8	2.1
Shan (East)	1	1.4	0	0.0	0	0	0	0.0	1	100.0
Ayeyawady	2	2.7	1	2.6	0	0	2	3.0	5	50.0
Nay Pyi Taw	4	5.5	4	10.3	0	0	1	1.5	9	83.3
Total	73	100	39	100	8	100	67	100	187	58.4

Table (69) states the response rate of the private hospitals of each Region and State by months.

Table (70-1) Single Leading Causes of Morbidity by Sex & Duration of Stay, 2014

(Private Hospitals)

ICD10 Detail	C a u s e s	Male		Female		Total		Duration of Stay
		No.	%	No.	%	No.	%	
O82	Single delivery by caesarean section	0	0.0	36499	17.0	36499	10.1	6.0
A09	Diarrhoea and gastroenteritis of presumed infectious origin	7092	4.9	7534	3.5	14626	4.1	3.9
H26	Other cataract	4047	2.8	5128	2.4	9175	2.5	3.7
O80	Single spontaneous delivery	0	0.0	8678	4.1	8678	2.4	4.1
A91	Dengue haemorrhagic fever	3901	2.7	3737	1.7	7638	2.1	4.3
K35	Acute appendicitis	3017	2.1	4366	2.0	7383	2.1	5.8
K29	Gastritis and duodenitis	3017	2.1	3856	1.8	6873	1.9	4.5
K40	Inguinal hernia	6704	4.6	0	0.0	6704	1.9	4.9
I25	Chronic ischaemic heart disease	2211	1.5	3924	1.8	6135	1.7	6.7
B34	Viral infection of unspecified site	2967	2.0	2707	1.3	5674	1.6	4.0
C50	Malignant neoplasm of breast	0	0.0	5529	2.6	5529	1.5	3.9
O06	Unspecified abortion	0	0.0	5196	2.4	5196	1.4	2.3
E14	Unspecified diabetes mellitus	1750	1.2	2990	1.4	4740	1.3	7.4
D25	Leiomyoma of uterus	0	0.0	4417	2.1	4417	1.2	6.9
I84	Haemorrhoids	2630	1.8	1732	0.8	4362	1.2	4.5
	All other Causes	108274	74.4	117946	55.1	226220	62.9	6.1
	Total	145610	100	214239	100	359849	100	4.9

Table (70-2) Single Leading Causes of Morbidity by Sex & Duration of Stay, 2015

(Private Hospitals)

ICD10 Detail	C a u s e s	Male		Female		Total		Duration of Stay
		No.	%	No.	%	No.	%	
O82	Single delivery by caesarean section	0	0.0	35331	15.8	35331	9.5	5.8
A09	Diarrhoea and gastroenteritis of presumed infectio	6497	4.4	6511	2.9	13008	3.5	4
A91	Dengue haemorrhagic fever	6642	4.4	6046	2.7	12688	3.4	4.5
O80	Single spontaneous delivery	0	0.0	8575	3.8	8575	2.3	4.3
E14	Unspecified diabetes mellitus	3328	2.2	5145	2.3	8473	2.3	7
I25	Chronic ischaemic heart disease	3052	2.0	5392	2.4	8444	2.3	6.4
H25	Senile cataract	3038	2.0	4418	2.0	7456	2	3.7
B34	Viral infection of unspecified site	3590	2.4	3604	1.6	7194	1.9	4.2
I10	Essential (primary) hypertension	2689	1.8	4084	1.8	6773	1.8	5.1
K29	Gastritis and duodenitis	2950	2.0	3706	1.7	6656	1.8	4.4
K35	Acute appendicitis	2747	1.8	3910	1.7	6657	1.8	5.5
N20	Calculus of kidney and ureter	2631	1.8	2863	1.3	5494	1.5	5.4
K40	Inguinal hernia	4970	3.3	0	0.0	4970	1.3	5
J06	Acute upper respiratory infections of multiple and	2398	1.6	2064	0.9	4462	1.2	3.9
I84	Haemorrhoids	2485	1.7	1933	0.9	4418	1.2	4.2
...	All other Causes	102302	68.5	130352	58.2	232654	62.3	5.9
		149319	100	223934	100	373253	100	5

Table (70-3) Single Leading Causes of Morbidity by Sex & Duration of Stay, 2016

(Private Hospitals)

ICD10	C a u s e s	Male		Female		Total		Duration of Stay
		No.	%	No.	%	No.	%	
O82	Single delivery by caesarean section	0	0.0	39590	15.9	39590	10.1	5.8
O80	Single spontaneous delivery	0	0.0	14493	5.8	14493	3.7	4.2
A09	Diarrhoea and gastroenteritis of presumed infectious origin	5299	3.6	6310	2.5	11609	2.9	3.9
E14	Unspecified diabetes mellitus	3457	2.4	5933	2.4	9390	2.4	7.6
K35	Acute appendicitis	3260	2.2	4389	1.8	7649	1.9	6.6
C50	Malignant neoplasm of breast	0	0.0	5495	2.2	5495	1.4	4.5
D25	Leiomyoma of uterus	0	0.0	5416	2.2	5416	1.4	7.5
K29	Gastritis and duodenitis	2336	1.6	3002	1.2	5338	1.4	5.0
J44	Other chronic obstructive pulmonary disease	2617	1.8	2500	1.0	5117	1.3	6.8
I84	Haemorrhoids	2970	2.0	2108	0.8	5078	1.3	4.2
K40	Inguinal hernia	5040	3.5	0	0.0	5040	1.3	5.1
J22	Unspecified acute lower respiratory infection	2305	1.6	2587	1.0	4892	1.2	7.4
K74	Fibrosis and cirrhosis of liver	3253	2.2	1615	0.7	4868	1.2	6.7
N20	Calculus of kidney and ureter	2359	1.6	2304	0.9	4663	1.2	5.9
B34	Viral infection of unspecified site	2351	1.6	2304	0.9	4655	1.2	4.3
...	All other Causes	110252	75.8	150289	60.5	260541	66.2	5.7
Total		145499	100	248335	100	393834	100	5.5

Table (71-1) Single Leading Causes of Mortality by Sex & Duration of Stay, 2014

(Private Hospitals)

ICD10 Detail	C a u s e s	Male		Female		Total		Duration of Stay
		No.	%	No.	%	No.	%	
A41	Other septicaemia	111	5.3	133	7.1	244	6.1	6.9
I50	Heart failure	73	3.5	120	6.4	193	4.9	7.4
C22	Malignant neoplasm of liver and intrahepatic bile ducts	146	7.0	39	2.1	185	4.7	8.1
K74	Fibrosis and cirrhosis of liver	116	5.5	43	2.3	159	4.0	6.7
I21	Acute myocardial infarction	103	4.9	51	2.7	154	3.9	3.5
N18	Chronic renal failure	51	2.4	103	5.5	154	3.9	5.7
I25	Chronic ischaemic heart disease	56	2.7	60	3.2	116	2.9	6.0
I64	Stroke, not specified as haemorrhage or infarction	77	3.7	34	1.8	111	2.8	4.3
J44	Other chronic obstructive pulmonary disease	56	2.7	56	3.0	112	2.8	6.5
C34	Malignant neoplasm of bronchus and lung	73	3.5	30	1.6	103	2.6	9.8
J81	Pulmonary oedema	56	2.7	43	2.3	99	2.5	3.5
K92	Other diseases of digestive system	73	3.5	26	1.4	99	2.5	3.8
I46	Cardiac arrest	43	2.1	51	2.7	94	2.4	5.4
I63	Cerebral infarction	64	3.1	26	1.4	90	2.3	5.8
I61	Intracerebral haemorrhage	51	2.4	30	1.6	81	2.0	4.6
...	All other Causes	948	45.2	1030	54.9	1978	49.8	9.5
	Total	2097	100	1875	100	3972	100	6.1

Table (71-2) Single Leading Causes of Mortality by Sex & Duration of Stay, 2015

(Private Hospitals)

ICD10 Detail	C a u s e s	Male		Female		Total		Duration of Stay
		No.	%	No.	%	No.	%	
I21	Acute myocardial infarction	109	4.9	73	4	182	4.5	2.9
E14	Unspecified diabetes mellitus	36	1.6	127	7.1	163	4.1	12.9
I25	Chronic ischaemic heart disease	54	2.4	109	6.1	163	4.1	4.7
I50	Heart failure	36	1.6	127	7.1	163	4.1	5.1
K74	Fibrosis and cirrhosis of liver	145	6.5	18	1	163	4.1	4.3
A41	Other septicaemia	91	4.1	54	3	145	3.6	4.2
J44	Other chronic obstructive pulmonary disease	91	4.1	54	3	145	3.6	7.6
N18	Chronic renal failure	54	2.4	91	5.1	145	3.6	15
C22	Malignant neoplasm of liver and intrahepatic bile	109	4.9	18	1	127	3.2	5.4
I64	Stroke, not specified as haemorrhage or infarction	91	4.1	36	2	127	3.2	2.7
I63	Cerebral infarction	91	4.1	18	1	109	2.7	7.8
C34	Malignant neoplasm of bronchus and lung	54	2.4	36	2	90	2.3	6.5
J96	Respiratory failure, not elsewhere classified	73	3.3	18	1	91	2.3	3
K72	Hepatic failure, not elsewhere classified	73	3.3	18	1	91	2.3	5.9
B20	Human immunodeficiency virus [HIV] disease resulti	36	1.6	36	2	72	1.8	7.8
...	All other Causes	1,089	48.8	962	53.6	2,051	50.9	9.6
		2,232	100	1,795	100	4,027	100	6.6

Table (70-3) Single Leading Causes of Mortality by Sex & Duration of Stay, 2016

(Private Hospitals)

ICD10 Detail	C a u s e s	Male		Female		Total		Duration of Stay
		No.	%	No.	%	No.	%	
A41	Other septicaemia	127	6.2	185	8.5	312	7.4	11.7
J44	Other chronic obstructive pulmonary disease	151	7.3	116	5.3	267	6.3	4.9
C34	Malignant neoplasm of bronchus and lung	116	5.6	81	3.7	197	4.6	9.9
I50	Heart failure	46	2.2	116	5.3	162	3.8	5.3
N18	Chronic renal failure	58	2.8	93	4.3	151	3.6	6.1
K74	Fibrosis and cirrhosis of liver	93	4.5	35	1.6	128	3.0	8.6
K72	Hepatic failure, not elsewhere classified	104	5.1	23	1.1	127	3.0	8.6
C22	Malignant neoplasm of liver and intrahepatic bile ducts	70	3.4	35	1.6	105	2.5	11.3
E14	Unspecified diabetes mellitus	70	3.4	35	1.6	105	2.5	11.2
C50	Malignant neoplasm of breast	0	0.0	104	4.8	104	2.5	5.9
I25	Chronic ischaemic heart disease	81	3.9	23	1.1	104	2.5	4
B24	Unspecified human immunodeficiency virus [HIV] disease	58	2.8	35	1.6	93	2.2	13.7
I21	Acute myocardial infarction	35	1.7	58	2.7	93	2.2	1.4
J81	Pulmonary oedema	12	0.6	81	3.7	93	2.2	5.1
J96	Respiratory failure, not elsewhere classified	46	2.2	35	1.6	81	1.9	4.8
...	All other Causes	991	48.2	1129	51.7	2120	50.	7.1
	Total	2058	100	2184	100	4242	100	7.9

SECTION IV

ANNEXES

ANNEX 1: Hospital Administrative Indicators

Hospital Administrative Indicators

1. Average number of out-patients per day	$= \frac{\text{Total number of outpatient attendances}}{\text{Number of working days in year}}$
2. Average number of Inpatients per day	$= \frac{\text{Total number of patient days}}{365 \text{ (Number of days in year)}}$
3. Average duration of stay (in days)	$= \frac{\text{Total number of patient days}}{\text{Number of discharges \& deaths}}$
4. Percentage of occupancy based on available beds	$= \frac{\text{Average number of inpatients per day} \times 100}{\text{Number of available beds}}$
5. Percentage of occupancy based on sanctioned beds	$= \frac{\text{Average number of inpatients per day} \times 100}{\text{Number of sanctioned beds}}$
6. Average turnover of patients per bed per year	$= \frac{\text{Number of discharges \& deaths}}{\text{Number of available beds}}$
7. Average turnover interval [in days]	$= \frac{[(\text{Available beds} \times 365) - \text{patient days}]}{\text{Number of discharges \& deaths}}$
8. Hospital Death Rate	$= \frac{\text{Number of deaths} \times 100}{\text{Number of discharges \& deaths}}$

ANNEX 2: Description of Chapters of ICD-10

Description of Chapters of ICD-10

Chapter I	Certain infectious and parasitic diseases (A00- B99)
Chapter II	Neoplasms (C00-D48)
Chapter III	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)
Chapter IV	Endocrine, nutritional and metabolic diseases (E00-E90)
Chapter V	Mental and behavioural disorders (F00-F99)
Chapter VI	Diseases of the nervous system (G00-G99)
Chapter VII	Diseases of the eye and adnexa (H00-H59)
Chapter VIII	Diseases of the ear and mastoid process (H60-H95)
Chapter IX	Diseases of the circulatory system (I00- I99)
Chapter X	Diseases of the respiratory system (J00-J99)
Chapter XI	Diseases of the digestive system (K00-K93)
Chapter XII	Diseases of the skin and subcutaneous tissue (L00-L99)
Chapter XIII	Diseases of the musculoskeletal system and connective tissue (M00-M99)
Chapter XIV	Diseases of the genitourinary system (N00-N99)
Chapter XV	Pregnancy, childbirth and the puerperium (O00-O99)
Chapter XVI	Certain conditions originating in the perinatal period (P00-P96)
Chapter XVII	Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
Chapter XVIII	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)
Chapter XIX	Injury, poisoning and certain other consequences of external causes (S00-T98)
Chapter XX	External causes of morbidity and mortality (V01-Y98)
Chapter XXI	Factors influencing health status and contact with health services (Z00-Z99)
Chapter XXII	Codes for special purposes