

Census Report 2015

Program Anestisiologi

Kementerian Kesihatan Malaysia

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CENSUS REPORT 2015

Prepared by:

Datin Dr. Sivasakthi Velayuthapillai
National Advisor
Program Anestisiologi
Ministry of Health
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Program Anestisiologi is responsible for the provision of three major services:

- (1) anaesthetic service in the operating theatre and in non-OT locations
- (2) care of the critically ill in the intensive care units and
- (3) pain management.

This report is a compilation of census on workload, manpower, facilities and key performance indicators.

SUMMARY

1. A total of 83 hospitals provided anaesthetic service in Ministry of Health; 47 with resident anaesthetists. (Table 1)
2. The total no. of anaesthetics administered was 391150, an increase of 0.91% over the previous year. Of this number, 57.5% were for emergency surgery. (Table 2)
3. Hospitals with the most number of anaesthetics administered were: Hospital Kuala Lumpur (26404), Hospital Ipoh (17535) and Hospital Alor Setar (16398) (Table 2)
4. General anaesthesia was the most common technique (55.5%) followed by spinal anaesthesia (37.5%), epidural (0.7%), combined spinal and epidural (2.27%) and plexus block (1.03%) (Table 1)
5. The percentage of anaesthetics for emergency surgery reduced from 57.6% to 57.5% in 2015.

6. There were 12535 anaesthetics administered for day care surgery; 33.8% of anaesthetics for elective surgery. A total of 3558 anaesthetics were administered as day of surgery admissions, an increased of 4.41% from previous year. (Table 3)
7. 77.31% of all anaesthetics administered for LSCS were done as emergencies (Table 4) with the vast majority of them performed under spinal anaesthesia (87.78%); 8.46% of LSCS were done under general anaesthesia (Table 5)
8. A total of 126223 patients received post-operative pain management under the acute pain service; an increase of 10.59% over the previous year. 51.55% of patients had intra-theal morphine, 19.82% patient controlled analgesia and 11.36% epidural analgesia. (Table 7)
9. A total of 5667 parturients received epidural analgesia during labour; an increase of 6.96% from the previous year. (Table 8)
10. The no. of patients who were seen at the anaesthetic clinics for preoperative assessment increased by 8.41% to 98938. (Table 9)
11. There were 51 general ICUs under Program Anestisiologi with a total admission of 40793, an increased of 0.32% from previous year. (Table 10)
12. Across the board, high bed occupancy rates (BOR) were recorded in ICU reflecting a severe shortage of ICU beds in MOH hospitals. 14 ICUs had BOR of >100%. The recommended BOR for ICU is 75% (Table 10)
13. The total no. of patients admitted to the high dependency units were 7375, a reduce of 0.04% over the previous year. Hospitals with high HDU workload (patient days) were Hospital Sungai Buloh (Table 11)
14. There were 25 chronic pain clinics with a total of 14297 patient attendances, an increase of 17.23% from the previous year.
15. A total of 9852 patients were operated under the Saturday List programme in 39 hospitals, of

whom 7130 were done under general anaesthesia. This represented a reduced of 39.14% from previous year. (Table 18)

16. All the output indicators continued to show upward trends in the last six years; when compared with 2014, the following increases were noted: no. of anaesthetics administered (↑ 0.91%), no. of anaesthetics for day care surgery (↑ 14.7%), no. of patients under acute pain service (↑ 10.59%), no. of attendance at anaesthetic clinic (↑ 8.41%), no. of ICU admission (↑ 0.32%%), and no. of attendance at chronic pain clinic (↑17.23%). (Table 19)
17. As of 31th December 2015, there were 460 anaesthetists, 104 medical officers and 199 trainees in the Ministry of Health hospitals (Table 20, 21)
18. There were 381 assistant medical officers, 1108 anaesthetic nurses and 3276 ICU nurses giving a total nursing and allied health workforce of 4759 (Table 22)
19. As of December 2015, there were 94 subspecialists (21% of total workforce) and 20 specialist trainees under Program Anestisiologi. There were 19 cardiac anaesthetists, 14 paediatric anaesthetists, 7 neuro anaesthetists, 6 obstetric anaesthetists, 2 Transplant anaesthetists, 24 intensivists and 20 pain specialists (Table 23)
20. There were 703 ICU beds of which 636 were functional (90%).. There were 143 functional HDU beds from a total of 186. (Table 24)
21. There were 449 functional operating theatres. (Table 24)
22. 53 hospitals submitted their mean KPI results. Most of the KPIs were within the national standards. (Table 25)

Table 1 : Anaesthetics administered according to techniques in KKM hospitals, 2015

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	Combined Spinal & Epidural (CSE)	Combined General & Regional Anaesthesia (CGRA)	Plexus Blockade	Others	TOTAL
	PERLIS								
1	Kangar	2801	1974	42	253	148	89	24	5331
	KEDAH								
2	Alor Setar	10526	4960	28	177	506	55	146	16398
3	Langkawi	940	743	6	25	43	23	8	1788
4	Sultan Abdul Halim, Sungai Petani	5539	5657	64	177	38	169	7	11651
5	Kulim	2130	2022	4	254	79	6	88	4583
	PULAU PINANG								
6	Pulau Pinang	8492	3881	433	30	95	169	88	13188
7	Seberang Jaya	3534	3726	5	263	18	163	2	7711
8	Bukit Mertajam	813	403	0	143	49	0	2	1410
9	Kepala Batas	142	32	0	1	3	0	0	178
	PERAK								
10	Ipoh	11322	5264	137	297	351	97	67	17535
11	Seri Manjung	1553	2298	1	79	27	87	28	4073
12	Teluk Intan	2986	2081	7	289	84	0	1	5448
13	Taiping	4496	3692	288	111	88	104	738	9517
14	Slim River	740	477	2	36	6	19	0	1280
	SELANGOR								
15	Tuanku Ampuan Rahimah, Kelang	7174	5451	106	524	144	187	71	13657
16	Ampang	2463	4231	25	196	193	345	49	7502
17	Serdang	5624	3414	25	149	13	215	0	9440
18	Selayang	6271	4717	114	955	649	78	88	12872
19	Sungai Buloh	7185	5078	17	141	94	47	6	12568
20	Kajang	2677	2051	19	74	110	33	11	4975
21	Banting	269	277	0	2	18	0	0	566
	WILAYAH PERSEKUTUAN								
22	Kuala Lumpur	19439	5585	229	313	408	142	288	26404
23	Putrajaya	3214	3292	130	281	0	4	1	6922
24	Labuan	340	430	0	0	5	0	0	775
	NEGERI SEMBILAN								
25	Tuanku Jaafar, Seremban	6385	4574	26	196	58	59	73	11371
26	Tuanku Ampuan Najihah, Kuala Pilah	1334	1293	2	85	32	34	10	2790
27	Port Dickson	240	432	10	46	42	6	0	776
	MELAKA								
28	Melaka	8358	5585	90	34	47	74	72	14260
	JOHOR								
29	Sultanah Aminah, JB	8763	5882	73	110	544	49	164	15585
30	Sultan Ismail, JB	5230	3237	50	364	245	61	134	9321
31	Muar	2369	2186	23	251	71	86	0	4986
32	Batu Pahat	2843	2294	1	232	131	161	0	5662
33	Segamat	1380	1724	2	111	46	34	39	3336
34	Kluang	1747	1860	2	69	13	3	43	3737
	PAHANG								
35	Tengku Ampuan Afzan, Kuantan	7829	5615	51	483	122	156	7	14263
36	Temerloh	3247	3589	11	53	42	21	143	7106
37	Kuala Lipis	734	825	0	150	21	0	2	1732
	TERENGGANU								
38	Sultanah Nur Zahirah, Kuala Terengganu	7424	5119	166	563	380	133	144	13929
39	Kemaman	NA	NA	NA	NA	NA	NA	NA	NA
	KELANTAN								
40	Raja Perempuan Zainab II, Kota Bharu	4153	4270	45	355	356	24	48	9251
41	Kuala Krai	1162	1178	2	68	67	15	0	2492
42	Tanah Merah	618	1277	1	59	21	27	12	2015

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	Combined Spinal & Epidural (CSE)	Combined General & Regional Anaesthesia (CGRA)	Plexus Blockade	Others	TOTAL
	SARAWAK								
43	Umum Sarawak	8960	4726	112	431	798	205	85	15317
44	Sibu	3162	3072	182	74	90	258	33	6871
45	Miri	2821	1604	22	62	116	44	26	4695
46	Bintulu	1295	1109	21	21	5	113	23	2587
47	Sarikei	432	329	3	18	73	61	5	921
48	Kapit	90	61	0	0	0	0	140	291
49	Serian	95	242	0	0	0	0	66	403
50	Bau	30	5	0	0	0	0	0	35
51	Lundu	4	39	0	0	0	0	167	210
52	Simunjan	12	13	0	0	0	0	19	44
53	Sri Aman	46	59	0	0	0	0	0	105
54	Betong	16	54	0	0	0	0	183	253
55	Saratok	25	6	0	0	0	0	6	37
56	Mukah	58	13	0	0	0	0	163	234
57	Daro	3	0	0	0	0	0	1	4
58	Kanowit	4	0	0	2	0	0	170	176
59	Lawas	46	18	0	0	1	0	39	104
60	Limbang	43	247	0	0	0	0	383	673
61	Marudi	4	67	0	0	0	0	20	91
	SABAH								
62	Queen Elizabeth	1946	53	3	0	0	1	126	2129
	Queen Elizabeth II	6136	1525	18	176	59	28	891	8833
63	Duchess Of Kent	2400	2084	5	28	59	17	7	4600
64	Likas	5473	3889	167	3	161	68	198	9959
65	Keningau	1052	743	28	34	55	183	14	2109
66	Tawau	2386	2531	5	40	55	93	136	5246
67	Kudat	192	58	0	0	7	0	120	377
68	Kota Marudu	78	1	0	0	0	0	95	174
69	Kota Belud	51	43	0	0	0	0	85	179
70	Mesra, Bukit Padang	807	0	0	0	0	0	0	807
71	Beaufort	90	169	0	0	0	0	138	397
72	Sipitang	25	6	0	0	0	0	77	108
73	Tenom	2	4	0	0	2	0	5	13
74	Tambunan	0	0	0	0	0	0	213	213
75	Ranau	113	59	0	0	11	0	1843	2026
76	Beluran	1	9	0	0	0	0	52	62
77	Pitas	28	0	0	0	0	0	31	59
78	Tuaran	16	50	0	0	0	0	0	66
79	Lahad datu	800	1048	4	8	57	0	177	2094
80	Kinabatangan	0	0	0	0	0	0	71	71
81	Kunak	13	86	0	0	0	0	32	131
82	Semporna	0	0	0	0	0	0	8	8
83	Kuala Penyu	25	10	0	0	0	0	19	54
	TOTAL	213266	146708	2807	8896	6956	4046	8471	391150

Table 2 : Anaesthetics and nature of surgery in KKM hospitals, 2015

No.	HOSPITAL	Elective Surgery	Emergency Surgery		TOTAL
	PERLIS			(%)	
1	Kangar	2217	3114	58.41%	5331
	KEDAH				
2	Alor Setar	6339	10049	61.32%	16388
3	Langkawi	681	1117	62.12%	1798
4	Sultan Abdul Halim, Sungai Petani	3862	7789	66.85%	11651
5	Kulim	1564	4583	74.56%	6147
	PULAU PINANG				
6	Pulau Pinang	6734	6384	48.67%	13118
7	Seberang Jaya	2272	5439	70.54%	7711
8	Bukit Mertajam	1315	95	6.74%	1410
9	Kepala Batas	145	33	18.54%	178
	PERAK				
10	Ipoh	7486	10094	57.42%	17580
11	Seri Manjung	1198	2875	70.59%	4073
12	Teluk Intan	2032	3416	62.70%	5448
13	Taiping	3934	5583	58.66%	9517
14	Slim River	607	673	52.58%	1280
	SELANGOR				
15	Tuanku Ampuan Rahimah, Kelang	6071	7616	55.64%	13687
16	Ampang	3048	4454	59.37%	7502
17	Serdang	4211	5229	55.39%	9440
18	Selayang	6748	6124	47.58%	12872
19	Sungai Buloh	5353	7215	57.41%	12568
20	Kajang	1460	3515	70.65%	4975
21	Banting	321	245	43.29%	566
	WILAYAH PERSEKUTUAN				
22	Kuala Lumpur	14618	11786	44.64%	26404
23	Putrajaya	2727	3829	58.40%	6556
24	Labuan	287	488	62.97%	775
	NEGERI SEMBILAN				
25	Tuanku Jaafar, Seremban	5150	6221	54.71%	11371
26	Tuanku Ampuan Najihah, Kuala Pilah	856	1934	69.32%	2790
27	Port Dickson	336	449	57.20%	785
	MELAKA				
28	Melaka	8480	5780	40.53%	14260
	JOHOR				
29	Sultanah Aminah, JB	4983	10602	68.03%	15585
30	Sultan Ismail, JB	3412	5909	63.39%	9321
31	Muar	1522	3464	69.47%	4986
32	Batu Pahat	2230	3432	60.61%	5662
33	Segamat	1104	2288	67.45%	3392
34	Kluang	1570	2167	57.99%	3737
	PAHANG				
35	Tengku Ampuan Afzan, Kuantan	6066	8197	57.47%	14263
36	Temerloh	2593	4513	63.51%	7106
37	Kuala Lipis	572	1160	66.97%	1732
	TERENGGANU				
38	Sultanah Nur Zahirah, Kuala Terengganu	5765	8164	58.61%	13929
39	Kemaman	NA	NA	NA	NA
	KELANTAN				
40	Raja Perempuan Zainab II, Kota Bharu	4247	6104	58.97%	10351
41	Kuala Krai	854	1642	65.79%	2496
42	Tanah Merah	607	1408	69.88%	2015

No.	HOSPITAL	Elective Surgery	Emergency Surgery		TOTAL
	SARAWAK				
43	Umum Sarawak	7055	8262	53.94%	15317
44	Sibu	3188	3683	53.60%	6871
45	Miri	1874	2821	60.09%	4695
46	Bintulu	963	1624	62.78%	2587
47	Sarikei	432	489	53.09%	921
48	Kapit	160	131	45.02%	291
49	Serian	187	216	53.60%	403
50	Bau	14	21	60.00%	35
51	Lundu	171	39	18.57%	210
52	Simunjan	39	5	11.36%	44
53	Sri Aman	48	57	54.29%	105
54	Betong	215	38	15.02%	253
55	Saratok	22	15	40.54%	37
56	Mukah	179	55	23.50%	234
57	Daro	1	3	75.00%	4
58	Kanowit	176	0	0.00%	176
59	Lawas	58	46	44.23%	104
60	Limbang	474	199	29.57%	673
61	Marudi	39	52	57.14%	91
	SABAH				
62	Queen Elizabeth	1458	671	31.52%	2129
	Queen Elizabeth II	4669	4164	47.14%	8833
63	Duchess Of Kent	1380	3220	70.00%	4600
64	Likas	3771	6188	62.13%	9959
65	Keningau	724	1385	65.67%	2109
66	Tawau	1438	3808	72.59%	5246
67	Kudat	199	178	47.21%	377
68	Kota Marudu	55	119	68.39%	174
69	Kota Belud	83	96	53.63%	179
70	Mesra, Bukit Padang	807	0	0.00%	807
71	Beaufort	236	161	40.55%	397
72	Sipitang	52	56	51.85%	108
73	Tenom	13	0	0.00%	13
74	Tambunan	43	170	79.81%	213
75	Ranau	583	1443	71.22%	2026
76	Beluran	48	14	22.58%	62
77	Pitas	35	24	40.68%	59
78	Tuaran	20	46	69.70%	66
79	Lahad datu	643	1451	69.29%	2094
80	Kinabatangan	71	0	0.00%	71
81	Kunak	27	104	79.39%	131
82	Semporna	8	0	0.00%	8
83	Kuala Penyu	22	32	59.26%	54
	TOTAL	167235	226265	57.51%	393468

Table 3 : Anaesthetics for Day Care Surgery and Day of Surgery Admissions in KKM hospitals, 2015

No.	HOSPITAL	Day Care Surgery	Day Of Surgery Admissions
	PERLIS		
1	Kangar	21	35
	KEDAH		
2	Alor Setar	1356	0
3	Langkawi	19	1
4	Sungai Petani	153	0
5	Kulim	45	0
	PULAU PINANG		
6	Pulau Pinang	488	1371
7	Seberang Jaya	131	25
8	Kepala Batas	16	20
	PERAK		
9	Ipoh	2001	1753
10	Seri Manjung	121	44
11	Teluk Intan	27	4
12	Taiping	45	10
13	Slim River	27	0
	SELANGOR		
14	Tuanku Ampuan Rahimah, Kelang	637	8
15	Ampang	206	6
16	Serdang	891	0
17	Selayang	676	21
18	Sungai Buloh	430	0
	WILAYAH PERSEKUTUAN		
19	Kuala Lumpur	581	17
20	Putrajaya	632	30
	NEGERI SEMBILAN		
21	Seremban	699	33
	MELAKA		
22	Melaka	372	0
	JOHORE		
23	Sultan Ismail, JB	443	28
	PAHANG		
24	Tengku Ampuan Afzan, Kuantan	573	25
25	Temerloh	106	8
	TERENGGANU		
26	Sultanah Nur Zahirah, Kuala Terengganu	477	23
27	Kemaman		
	Kelantan		
28	Kota Bharu	231	41
	SARAWAK		
29	Umum Sarawak	233	1
	SABAH		
30	Ranau	248	11
31	Likas	650	43
	TOTAL	12535	3558

Table 4 : Anaesthetic for LSCS and nature of surgery in KKM hospitals, 2015

No.	HOSPITAL	Elective LSCS	Emergency LSCS	TOTAL
	PERLIS			
1	Kangar	231	964	1195
	KEDAH			
2	Alor Setar	807	2202	3009
3	Langkawi	111	254	365
4	Sultan Abdul Halim,Sungai Petani	647	3262	3909
5	Kulim	343	1061	1404
	PULAU PINANG			
6	Pulau Pinang	192	848	1040
7	Seberang Jaya	565	1775	2340
8	Bukit Mertajam	40	3	43
	Kepala Batas	5	6	11
	PERAK			
9	Ipoh	950	2229	3179
10	Seri Manjung	298	792	1090
11	Teluk Intan	205	929	1134
12	Taiping	833	1445	2278
13	Slim River	74	140	214
	SELANGOR			
14	Tuanku Ampuan Rahimah, Kelang	869	2767	3636
15	Ampang	525	1938	2463
16	Serdang	493	1450	1943
17	Selayang	677	2433	3110
18	Sungai Buloh	907	2784	3691
19	Kajang	247	1109	1356
20	Banting	25	65	90
	WILAYAH PERSEKUTUAN			
21	Kuala Lumpur	821	3392	4213
22	Putrajaya	746	1874	2620
23	Labuan	71	220	291
	NEGERI SEMBILAN			
24	Tuanku Jaafar, Seremban	890	2654	3544
25	Tuanku Ampuan Najihah, Kuala Pilah	201	571	772
26	Port Dickson	95	135	230
	MELAKA			
27	Melaka	388	2890	3278
	JOHOR			
28	Sultanah Aminah, JB	816	2921	3737
29	Sultan Ismail, JB	387	1502	1889
30	Muar	241	827	1068
31	Batu Pahat	305	729	1034
32	Segamat	103	547	650
33	Kluang	282	531	813
	PAHANG			
34	Tengku Ampuan Afzan, Kuantan	563	1385	1948
35	Temerloh	500	1807	2307
36	Kuala Lipis	99	317	416
	TERENGGANU			
37	Sultanah Nur Zahirah, Kuala Terengganu	639	2749	3388
38	Kemaman	NA	NA	NA

No.	HOSPITAL	Elective LSCS	Emergency LSCS	TOTAL
	KELANTAN			
39	Raja Perempuan Zainab II, Kota Bharu	554	2327	2881
40	Kuala Krai	108	555	663
41	Tanah Merah	153	660	813
	SARAWAK			
42	Umum Sarawak	1338	1858	3196
43	Sibu	207	1219	1426
44	Miri	220	677	897
45	Bintulu	85	481	566
46	Sarikei	3	44	47
47	Kapit	30	2	32
48	Serian	1	124	125
49	Bau	0	7	7
50	Lundu	0	15	15
51	Simunjan	0	4	4
52	Sri Aman	8	31	39
53	Betong	0	12	12
54	Saratok	1	4	5
55	Mukah	0	10	10
56	Daro	0	0	0
57	Kanowit	0	0	0
58	Lawas	1	29	30
59	Limbang	38	107	145
60	Marudi	1	28	29
	SABAH			
61	Duchess Of Kent	189	1587	1776
62	Likas	755	3630	4385
63	Keningau	86	317	403
64	Tawau	280	1403	1683
65	Kudat	11	112	123
66	Kota Marudu	5	52	57
67	Kota Belud	4	70	74
68	Tuaran	13	24	37
69	Beaufort	9	103	112
70	Sipitang	2	22	24
71	Kunak	10	65	75
72	Ranau	15	74	89
73	Lahad Datu	184	725	909
74	Pitas	3	19	22
75	Kuala Penyu	2	16	18
	TOTAL	20502	69885	90387

Table 5 : Anaesthetics for LSCS and techniques of anaesthesia in KKM hospitals, 2015

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	CSE	Others *	TOTAL
	PERLIS						
1	Kangar	54	1072	21	43	5	1195
	KEDAH						
2	Alor Setar	208	2793	8	0	0	3009
3	Langkawi	25	331	4	0	5	365
4	Sultan Abdul Halim,Sungai Petani	123	3781	5	0	0	3909
5	Kulim	56	1245	4	99	0	1404
	PULAU PINANG						
6	Pulau Pinang	50	938	25	6	21	1040
7	Seberang Jaya	94	2239	5	2	0	2340
8	Bukit Mertajam	0	40	0	0	3	43
9	Kepala Batas	0	10	0	0	1	11
	PERAK						
10	Ipoh	240	2720	133	60	26	3179
11	Seri Manjung	54	1034	0	2	0	1090
12	Teluk Intan	57	953	0	91	33	1134
13	Taiping	93	2165	1	19	0	2278
14	Slim River	35	179	0	0	0	214
	SELANGOR						
15	Tuanku Ampuan Rahimah, Kelang	98	3403	70	65	0	3636
16	Ampang	61	2374	22	2	4	2463
17	Serdang	149	1760	13	21	0	1943
18	Selayang	129	2515	137	327	2	3110
19	Sungai Buloh	234	3396	14	8	39	3691
20	Kajang	114	1184	18	0	40	1356
21	Banting	11	79	0	0	0	90
	WILAYAH PERSEKUTUAN						
22	Kuala Lumpur	300	3337	206	281	69	4193
23	Putrajaya	75	2248	122	108	1	2554
24	Labuan	15	276	0	0	0	291
	NEGERI SEMBILAN						
25	Tuanku Jaafar, Seremban	439	3073	17	12	3	3544
26	Tuanku Ampuan Najihah, Kuala Pilah	82	683	1	3	3	772
27	Port Dickson	7	178	10	35	0	230
	MELAKA						
28	Melaka	373	2893	12	0	0	3278
	JOHOR						
29	Sultanah Aminah, JB	926	2732	41	9	29	3737
30	Sultan Ismail, JB	190	1614	52	8	25	1889
31	Muar	49	970	14	35	0	1068
32	Batu Pahat	83	895	2	54	0	1034
33	Segamat	37	613	0	0	0	650
34	Kluang	57	732	0	5	24	818
	PAHANG						
35	Tengku Ampuan Afzan, Kuantan	150	1746	18	34	0	1948
36	Temerloh	135	2106	1	5	60	2307
37	Kuala Lipis	37	379	0	1	0	417
	TERENGGANU						
38	Sultanah Nur Zahirah, Kuala Terengganu	237	2759	126	180	86	3388
39	Kemaman	NA	NA	NA	NA	NA	NA
	KELANTAN						
40	Raja Perempuan Zainab II, Kota Bharu	243	2606	13	11	8	2881
41	Kuala Krai	45	618	0	0	0	663
42	Tanah Merah	22	791	0	0	0	813

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	CSE	Others *	TOTAL
	SARAWAK						
43	Umum Sarawak	408	2654	108	16	10	3196
44	Sibu	93	1333	0	0	0	1426
45	Miri	107	762	20	3	5	897
46	Bintulu	41	525	0	0	0	566
47	Sarikei	10	37	0	0	0	47
48	Kapit	6	26	0	0	0	32
49	Serian	6	119	0	0	0	125
50	Bau	5	2	0	0	0	7
51	Lundu	2	13	0	0	0	15
52	Simunjan	2	2	0	0	0	4
53	Sri Aman	11	28	0	0	0	39
54	Betong	12	0	0	0	0	12
55	Saratok	5	0	0	0	0	5
56	Mukah	2	8	0	0	0	10
57	Daro	0	0	0	0	0	0
58	Kanowit	0	0	0	0	0	0
59	Lawas	23	7	0	0	0	30
60	Limbang	8	137	0	0	0	145
61	Marudi	1	28	0	0	0	29
	SABAH						
62	Duchess Of Kent	203	1555	6	0	12	1776
63	Likas	585	3723	77	0	0	4385
64	Keningau	52	342	5	2	2	403
65	Tawau	210	1473	0	0	0	1683
66	Kudat	96	27	0	0	0	123
67	Kota Marudu	57	0	0	0	0	57
68	Kota Belud	31	43	0	0	0	74
69	Tuaran	1	36	0	0	0	37
70	Beaufort	7	105	0	0	0	112
71	Sipitang	20	4	0	0	0	24
72	Kunak	5	70	0	0	0	75
73	Ranau	64	25	0	0	0	89
74	Lahad Datu	152	757	0	0	0	909
75	Pitas	22	0	0	0	0	22
76	Kuala Penyu	8	10	0	0	0	18
TOTAL		7642	79311	1331	1547	516	90347

Table 6 : No. Of Cases Under Regional Anaesthesia And Analgesia in KKM hospitals, 2015

BIL	HOSPITAL	Total Number of Nerve Blocks		No. of Nerve Blocks for anaesthesia	No. of Nerve Blocks for analgesia	Number of Upper Limb Blocks		Number of Lower Limb Blocks		Number of Trunk Blocks				Total
		Done with ultrasound	Done with nerve stimulator			Done with ultrasound	Done with nerve stimulator	Done with ultrasound	Done with nerve stimulator	Paravertebral	Lumbar Plexus	TAP Blocks	Others	
	PERLIS													
1	Kangar	187	11	121	125	115	2	58	15	0	0	18	42	246
	KEDAH													
2	Alor Setar	211	16	39	188	154	7	57	9	1	0	26	4	227
3	Langkawi	0	23	10	13	0	21	0	2	0	0	0	0	23
4	Sultan Abdul Halim, Sungai Petani	169	169	169	0	125	125	23	23	0	0	21	0	169
5	Kulim	0	0	0	0	0	0	0	0	0	0	1	5	0
	PULAU PINANG													
6	Pulau Pinang	106	63	0	0	62	37	44	26	2	0	11	49	0
7	Seberang Jaya	0	0	0	0	105	0	58	0	0	0	0	0	0
8	Bukit Mertajam					2								0
	PERAK													
9	Ipoh	80	1	73	24	49	0	27	1	0	0	3	2	97
10	Seri Manjung	70	2	72	0	65	0	5	2	0	0	0	0	72
11	Slim River	1	0	0	17	1	0	0	0	0	0	0	0	17
	SELANGOR													
12	Tuanku Ampuan Rahimah, Kelang	210	17	308	384	178	7	32	10	0	0	357	83	692
13	Serdang	166	215	215	4	65	66	101	149	0	0	0	0	219
14	Selayang	225	51	6	120	162	107	30	118	21	6	7	40	126
15	Sungai Buloh	40	0	15	25	20	0	16	0	0	0	2	2	40
16	Kajang	46	1	33	15	34	0	8	1	0	0	4	1	48
	WILAYAH PERSEKUTUAN													
17	Kuala Lumpur	816	8	377	501	268	5	381	7	39	0	38	105	878
18	Putrajaya	44	37	10	34	13	12	30	25	0	0	0	1	44
	NEGERI SEMBILAN													
19	Tuanku Jaafar, Seremban	62	25	32	54	27	13	24	10	0	0	12	2	86
20	Tuanku Ampuan Najihah, Kuala Pilah	34	34	34	34	24	24	8	8	0	0	1	1	68
21	Port Dickson	41	0	6	35	14	0	7	0	0	0	14	5	41
	MELAKA													
22	Melaka	23	99	55	67	23	27	24	48	0	0	0	0	122
	JOHOR													
23	Sulatanah Aminah, JB	479	0	0	0	440	0	39	0	0	0	0	0	0
24	Sultan Ismail, JB	700	230	470	230	263	0	230	230	2	9	89	2	700
25	Muar	214	18	101	236	115	5	30	8	0	0	58	75	337
26	Batu Pahat	161	0	0	0	129	0	22	0	0	0	10	0	0
27	Segamat	34	0	6	28	33	0	1	0	0	0	0	0	34
28	Kluang	30	6	36	3	12	6	13	1	0	0	4	0	39
	PAHANG													
29	Tengku Ampuan Afzan, Kuantan	211	81	156	136	133	18	60	64	0	0	16	1	292
30	Temerloh	12	37	22	27	3	18	9	3	0	3	9	4	49
31	Kuala Lipis	4	0	0	4	4	0	0	0	0	0	0	0	4
	TERENGGANU													
32	Sultanah Nur Zahirah, Kuala Terengganu	204	22	75	151	126	2	33	13	0	0	36	16	226
	KELANTAN													
33	Raja Perempuan Zainab II, Kota Bharu	328	14	64	244	96	5	77	7	0	0	130	36	308
34	Tanah Merah	2	25	27	0	2	25	0	0	0	0	0	0	27
	SARAWAK													
35	Umum Sarawak	375	106	332	437	145	64	148	42	16	0	199	153	769
36	Sibu	208	73	0	220	37	187	63	24	10	0	3	0	220
37	Miri	69	55	43	42	31	26	29	27	0	0	9	14	85
38	Bintulu	97	0	97	9	85	0	12	0	0	0	0	5	106
39	Sarikei	34	68	60	57	27	37	7	20	0	0	0	11	117
	Sabah													
40	Queen Elizabeth II	147	32	0	179	106	24	16	8	2	0	7	16	179
41	Likas	371	0	0	371	81	0	94	0	0	0	29	143	371
42	Keningau	182	16	186	12	154	5	19	18	0	2	0	0	198
43	Tawau	0	12	0	0	0	0	0	0	0	0	1	0	0
	TOTAL	749	234	472	708	298	2461	252	93	26	0	248	342	7276

Table 6(Cont) : No. Of Cases Under Regional Anaesthesia And Analgesia in KKM hospitals, 2015
(Complication)

BIL	HOSPITAL	Complication																
		During block performance										Post op in ward			At 1 month			TOTAL
		Poor needle visualization	failed block	technical difficulty	Horner's Syndrome	vascular puncture	failed stimulation	inadequate spread	anatomical variation	phenic nerve	others	Persistent numbness	Persistent weakness	Failed catheter	Numbness	Weakness	Others	
	KEDAH																	
1	Sultan Abdul Halim,Sungai Petani		1	5														6
	PULAU PINANG																	
2	Pulau Pinang	11	41	124		29	2	25	5	1	3	10	3					254
	PERAK																	
3	Ipoh											1						0
4	Seri Manjung	20						2										22
	SELANGOR																	
5	Selayang											2	1					3
6	Sungai Buloh			1	1			2				1	1					6
7	Kajang						3											3
	WILAYAH PERSEKUTUAN																	
8	Kuala Lumpur	3		2		1		2				5			1	1		15
	NEGERI SEMBILAN																	
9	Tuanku Jaafar, Seremban		1	3								15	3					22
10	Tuanku Ampuan Najihah, Kuala Pilah		1					2										3
	JOHOR																	
11	Muar							3										3
12	Batu Pahat	4	3															7
	PAHANG																	
13	Tengku Ampuan Afzan, Kuantan	9	2	6	2	1	3	1				6						30
14	Temerloh		2															2
	TERENGGANU																	
15	Sultanah Nur Zahirah, Kuala Terengganu	2		1														3
	KELANTAN																	
16	Tanah Merah	2	1	2														5
	SARAWAK																	
17	Miri			1														1
	Sabah																	
18	Keningau		16															16
	TOTAL	51	68	145	3	31	8	37	5	1	3	40	8	0	1	1	0	401

Table 7 : Acute pain service and techniques of pain control in KKM hospitals, 2015

No.	HOSPITAL	Patient Controlled Analgesia (IV)	Epidural Analgesia	Intra-thecal Opioid	Nerve / Plexus Infusion	S/C Morphine	Morphine Infusion	Oral strong opioids (e.g morphine / oxycodone)*	TOTAL
	PERLIS								
1	Kangar	226	393	976	242	66	11	11	1925
	KEDAH								
2	Alor Setar	962	419	1857	227	0	42	72	3579
3	Langkawi	63	72	256	44	0	1	4	440
4	Sultan Abdul Halim, Sungai Petani	305	110	4029	169	0	0	0	4613
5	Kulim	40	40	367	0	0	0	0	447
	PULAU PINANG								
6	Pulau Pinang	1249	425	887	172	87	20	17	2857
7	Seberang Jaya	467	363	1671	472	29	1	0	3003
8	Bukit Mertajam	46	163	152	18	1	0	0	380
9	Kepala Batas	0	0	11	0	26	0	0	37
	PERAK								
10	Ipoh	1044	262	2886	105	1	80	75	4453
11	Seri Manjung	201	101	521	50	0	0	2	875
12	Teluk Intan	234	115	1023	0	0	1	0	1373
13	Taiping	204	420	2141	63	3	21	9	2861
14	Slim River	97	47	132	20	11	0	0	307
	SELANGOR								
15	Tuanku Ampuan Rahimah, Kelang	975	564	3195	692	11	0	201	5638
16	Ampang	270	428	1252	352	25	0	0	2327
17	Serdang	523	245	1083	215	184	0	0	2250
18	Selayang	1086	1534	2954	282	16	8	279	6159
19	Sungai Buloh	1065	208	2679	37	175	0	12	4176
20	Kajang	129	108	604	59	162	0	0	1062
	WILAYAH PERSEKUTUAN								
21	Kuala Lumpur	2260	602	3056	874	120	90	213	7215
22	Putrajaya	752	265	2376	35	4	0	37	3469
23	Labuan	0	5	306	0	107	0	0	418
	NEGERI SEMBILAN								
24	Tuanku Jaafar, Seremban	768	194	2150	138	16	6	3157	6429
25	Tuanku Ampuan Najihah, Kuala Pilah	107	110	458	39	38	0	0	752
26	Port Dickson	24	65	150	41	0	0	0	280
	MELAKA								
27	Melaka	1520	90	2936	275	2276	113	43	7253
	JOHOR								
28	Sultanah Aminah, JB	1164	370	3177	24	419	61	72	5287
29	Sultan Ismail, JB	744	589	959	367	87	0	219	2965
30	Muar	260	378	697	337	69	0	83	1824
31	Batu Pahat	386	156	0	0	20	0	856	1418
32	Segamat	170	146	177	40	90	0	0	623
33	Kluang	393	57	713	36	83	166	0	1448

No.	HOSPITAL	Patient Controlled Analgesia (IV)	Epidural Analgesia	Intra-thecal Opioid	Nerve / Plexus Infusion	S/C Morphine	Morphine Infusion	Oral strong opioids (e.g morphine / oxycodone)*	TOTAL
	PAHANG								
34	Tengku Ampuan Afzan, Kuantan	539	567	1728	292	151	34	0	3311
35	Temerloh	963	110	1702	44	0	1	5	2825
36	Kuala Lipis	152	152	332	4	5	72	0	717
	TERENGGANU								
37	Sultanah Nur Zahirah, Kuala Terengganu	1407	836	2673	245	16	3	372	5552
	KELANTAN								
38	Raja Perempuan Zainab II, Kota Bharu	332	585	2593	221	332	917	265	5245
39	Kuala Krai	39	121	610	45	59	209	0	1083
40	Tanah Merah	5	84	751	0	16	57	0	913
	SARAWAK								
41	Umum Sarawak	1522	1505	677	624	16	102	102	4548
42	Sibu	284	195	623	98	37	12	111	1360
43	Miri	270	108	754	79	177	21	5	1414
44	Bintulu	155	50	188	0	95	15	0	503
45	Sarikei	40	29	42	0	0	9	7	127
	SABAH								
46	Queen Elizabeth II	718	494	3	161	5	16	0	1397
47	Duchess Of Kent	357	93	1579	46	138	1	22	2236
48	Keningau	0	108	306	198	35	39	0	686
49	Lahad Datu	48	32	192	10	0	12	0	294
50	Likas	312	161	3723	371	0	46	0	4613
51	Tawau	148	65	764	33	231	0	15	1256
	TOTAL	25025	14339	65071	7896	5439	2187	6266	126223

* Epidural Analgesia (infusion or patient controlled, lumbar and caudal

* Intra-thecal opioid intra-thecal morphine only given for LSCS

* Oral analgesics refers to cases being treated post op with oral analgesia only

* Only those patients on oral strong opioids alone (not those convert from PCA or epidural to oral strong opioids)

Table 8 : Obstetric Analgesia Service, KKM 2015

No.	HOSPITAL	Epidural Analgesia For Labour
	PERLIS	
1	Kangar	28
	KEDAH	
2	Alor Setar	146
3	Langkawi	42
4	Sultan Abdul Halim, Sungai Petani	7
5	Kulim	9
	PULAU PINANG	
6	Pulau Pinang	59
7	Seberang Jaya	30
	PERAK	
8	Ipoh	501
9	Seri Manjung	1
10	Teluk Intan	6
11	Taiping	3
12	Slim River	1
	SELANGOR	
13	Tuanku Ampuan Rahimah, Kelang	361
14	Ampang	234
15	Serdang	37
16	Selayang	349
17	Sungai Buloh	87
18	Kajang	53
	WILAYAH PERSEKUTUAN	
19	Kuala Lumpur	274
20	Putrajaya	1082
	NEGERI SEMBILAN	
21	Tuanku Jaafar, Seremban	46
22	Tuanku Ampuan Najihah, Kuala Pilah	3
23	Port Dickson	31
	MELAKA	
24	Melaka	14
	JOHOR	
25	Sultanah Aminah, JB	229
26	Sultan Ismail, JB	243
27	Muar	110
28	Batu Pahat	43
	PAHANG	
29	Tengku Ampuan Afzan, Kuantan	81
30	Temerloh	5
	TERENGGANU	
31	Sultanah Nur Zahirah, Kuala Terengganu	533
	KELANTAN	
32	Raja Perempuan Zainab II, Kota Bharu	71
33	Kuala Krai	1
	SARAWAK	
34	Umum Sarawak	572
35	Miri	127
	SABAH	
36	Likas	199
37	Keningau	17
38	Dutchess Of Kent	1
39	Lahad Datu	31
	TOTAL	5667

Table 9 : No. of attendances at Anaesthetic Clinic in KKM hospitals, 2015

No.	HOSPITAL	No. Of Patient Seen In Clinic
	PERLIS	
1	Kangar	1765
	KEDAH	
2	Alor Setar	2470
3	Langkawi	98
4	Sultan Abdul Halim,Sungai Petani	361
5	Kulim	425
	PULAU PINANG	
6	Pulau Pinang	4704
7	Seberang jaya	1143
	PERAK	
8	Ipoh	5040
9	Seri Manjung	474
10	Teluk Intan	1569
11	Taiping	821
12	Slim River	248
	SELANGOR	
13	Tuanku Ampuan Rahimah, Kelang	3890
14	Ampang	2441
15	Serdang	2741
16	Selayang	4584
17	Sungai Buloh	2295
18	Kajang	692
19	Banting	111
	WILAYAH PERSEKUTUAN	
20	Kuala Lumpur	7992
21	Putrajaya	2536
	NEGERI SEMBILAN	
22	Tuanku Jaafar, Seremban	4739
23	Tuanku Ampuan Najihah, Kuala Pilah	652
24	Port Dickson	219
	MELAKA	
25	Melaka	7543
	JOHOR	
26	Sultanah Aminah, JB	8359
27	Sultan Ismail, JB	7737
28	Muar	1500
29	Batu Pahat	3881
30	Segamat	216
31	Kluang	1068
	PAHANG	
32	Tengku Ampuan Afzan, Kuantan	3015
33	Temerloh	1836
34	Kuala Lipis	262
	TERENGGANU	
35	Sultanah Nur Zahirah, Kuala Terengganu	3790
	KELANTAN	
36	Raja Perempuan Zainab II, Kota Bharu	1680
37	Kuala Krai	152
38	Tanah Merah	382
	SARAWAK	
39	Umum Sarawak	3131
40	Sibu	1685
41	Miri	1033
42	Sarikei	270
	SABAH	
43	Queen Elizabeth	1153
	Queen Elizabeth II	1599
44	Duchess Of Kent	687
45	Keningau	211
46	Tawau	709
47	Likas	1087
	Total	98938

Table 10 : Admissions, patient days and bed-occupancy rates in ICU KKM hospitals, 2015

No.	HOSPITAL	No. Of Admissions	Patients Days	Bed Occupancy Rate	Average length of stays (days)	No.of patients ventilated in the wards
	PERLIS					
1	Kangar	364	1549.00	94.46%	NA	NA
	KEDAH					
2	Alor Setar	712	3143.00	86.10%	4.41	4755
3	Langkawi	201	1030.00	69.04%	85.8	189
4	Sultan Abdul Halim,Sungai Petani	1064	12.84	80.25%	NA	NA
5	Kulim	561	2611.00	102.20%	4.73	447
	PULAU PINANG					
6	Pulau Pinang	1241	7992.00	94.00%	6.4	960
7	Seberang Jaya	1194	5163.00	101.03%	19.12	671
8	Bukit Mertajam	361	70.50	110.50%	5.8	288
9	Kepala Batas	266	1179.00	80.72%	4.4	70
	PERAK					
10	Ipoh	1359	7.70	107.00%	NA	NA
11	Seri Manjung	442	1591.00	83.50%	3.6	52
12	Teluk Intan	440	1245.00	112.00%	NA	NA
13	Taiping	1372	7364.00	102.00%	5.36	744
14	Slim River	326	1939.00	76.00%	6.05	55
	SELANGOR					
15	Tuanku Ampuan Rahimah, Kelang	2277	6.99	110.82%	4.09	1544
16	Ampang	689	3960.00	90.40%	NA	NA
17	Serdang	779	5115.00	91.60%	5.7	733
18	Selayang	1443	8490.00	99.20%	5.88	412
19	Sungai Buloh	1176	6398.00	94.57%	5.24	4476
20	Kajang	512	1806.00	82.46%	211.03	176
	WILAYAH PERSEKUTUAN					
21	Kuala Lumpur (GICU)	2089	10465.00	112.70%	5.2	1551
	Kuala Lumpur (PICU)	687	NA	74.00%	NA	NA
22	Putrajaya	876	2.40	94.70%	3.61	0
23	Labuan	185	877.00	48.50%	7.5	6
	NEGERI SEMBILAN					
24	Tuanku Jaafar, Seremban	547	2738.00	92.40%	5.1	1405
25	Tuanku Ampuan Najihah, Kuala Pilah	616	2362.00	80.89%	4.39	325
26	Port Dickson	238	N/A	89.80%	4.7	N/A
	MELAKA					
27	Melaka	1260	19.83	91.58%	4.775	738
	JOHOR					
28	Sultanah Aminah, JB	1769	365.00	29.00%	4.84	1589
29	Sultan Ismail, JB	945	3968.00	90.25%	4.3	609
30	Muar	635	1.70	90.10%	3.2	570
31	Batu Pahat	563	5.00	72.00%		
32	Segamat	313	831.00	70.75%	2.65	37
33	Kluang	379	22.50	73.80%	4.3	8

No.	HOSPITAL	No. Of Admissions	Patients Days	Bed Occupancy Rate	Average length of stays (days)	No.of patients ventilated in the wards
	PAHANG					
34	Tengku Ampuan Afzan, Kuantan I	605	12.50	104.50%	8.1	701
	Tengku Ampuan Afzan, Kuantan 2	579	7.00	127.70%	6.2	NA
35	Temerloh	917	4.60	82.11%	7.135	682
36	Kuala Lipis	128	702.00	82.57%	1.91	66
	TERENGGANU					
37	Sultanah Nur Zahirah, Kuala Terengganu	1468	56.10	105.20%	4.6	623
	KELANTAN					
38	Raja Perempuan Zainab II, Kota Bharu	1367	7080.00	92.20%	6.86	1238
39	Kuala Krai	401	4.00	86.00%	NA	NA
40	Tanah Merah	157	1387.00	151.36%	3.8	155
	SARAWAK					
41	Umum Sarawak	1200	4591.00	104.53%	NA	NA
42	Sibu	1383	7197.00	151.67%	NA	NA
43	Miri	540	2666.00	94.97%	NA	NA
44	Bintulu	368	1241.00	57.00%	3.5	349
45	Sarikei	147	906.00	80.80%	NA	NA
	SABAH					
46	Queen Elizabeth	470	3846.00	98.60%	7.64	1920
	Queen Elizabeth II	475	3906.00	89.20%	7.4	404
	Queen Elizabeth II (Cardiac)	226	98.13	47.00%	4.3	NA
47	Duchess Of Kent	997	5219	79.22	5.27	708
48	Likas	571	2898.00	72.60%	5.1	169
49	Keningau	208	1021.00	70.00%	5	116
50	Tawau	459	2113.00	61.55%	4.6	348
51	Lahad datu	246	1293.00	88.60%	6.6	671
	TOTAL	40793	128578.79	231.79%		30560

Table 11 : Admissions, patient days and bed-occupancy rates in HDU / PACU in KKM hospitals, 2014

No.	HOSPITAL	No. Of Admissions	Patients Days	Bed Occupancy Rate
	PERLIS			
1	Kangar	259	1172	90.50%
	KEDAH			
2	Alor Setar	724	5	83.00%
	PERAK			
3	Ipoh	876	5	49.35%
	SELANGOR			
4	Ampang	179	632	73.20%
5	Serdang	430	704	31.40%
6	Sungai Buloh	1308	6520	106.44%
	WILAYAH PERSEKUTUAN			
7	Kuala Lumpur	434	685	103.70%
	NEGERI SEMBILAN			
8	Tuanku Jaafar, Seremban	217	1844	72.20%
	MELAKA			
9	Melaka	354	1	91.58%
	JOHOR			
10	Sultan Ismail, JB	626	2726	70.40%
11	Muar	874	2	80.10%
12	Segamat	211	512	32.83%
	PAHANG			
13	Tengku Ampuan Afzan, Kuantan	579	7	127.70%
	SARAWAK			
14	Umum Sarawak	304	0.18	41.63%
	SABAH			
15	Queen Elizabeth	291	3736	102.30%
	Queen Elizabeth II (Medical)	203	1928	95.90%
	Queen Elizabeth II (Neuro)	281	1357	92.90%
16	Likas	35	83	5.00%
	TOTAL	7375	14815	75.01%

Table 12 : Pain Management Services in KKM Hospital (excluding APS and OAS),2015

No.	HOSPITAL	Total No. Of Patients Seen In Pain Clinic	Total No. Of New Cases Seen In Pain Clinic	Total No. Of Follow Up Cases Seen In Clinic	No. Of Ward Referrals (Chronic non cancer pain)	No. Of Ward Referrals (cancer pain)	No. Of Ward Referrals (acute pain)	No. Of Procedures Done in clinic/ward (excluding Acupuncture)	No. Of Procedures Done In OT	No. Of Acupuncture Session
	KEDAH									
1	Alor Setar	303	52	251	39	28	0	12	1	35
	PULAU PINANG									
2	Pulau Pinang	2512	208	2304	31	22	20	8	16	110
	PERAK									
3	Ipoh	1437	77	1360	22	7	111	15	40	1328
4	Taiping	278	61	217	6	1	59	8	6	149
	SELANGOR									
5	Tuanku Ampuan Rahimah, Kelang	1024	94	930	28	0	24	38	67	0
6	Serdang	6			18		4			
7	Selayang	1955	285	1670	108	55	302	25	80	169
8	Sungai Buloh	44	10	34	0	0	0	0	0	0
9	Kajang						50			
	WILAYAH PERSEKUTUAN									
10	Kuala Lumpur	1051	162	889	23	6	115	2	10	45
	NEGERI SEMBILAN									
11	Tuanku Jaafar, Seremban	489	58	431	22	10	34	20	0	0
	MELAKA									
12	Melaka	1386	148	1238	182	166	0	8	20	0
	JOHOR									
13	Sultanah Aminah, JB	433	95	338	24	25	82	1	0	0
14	Sultan Ismail, JB	1764	648	1116	13	18	493	37	66	0
15	Segamat	0	0	0	0	0	8	0	0	0
16	Kluang	0	0	0	1	2	0	0	0	0
	PAHANG									
17	Tengku Ampuan Afzan, Kuantan	340	84	256	0	0	0	0	50	0
18	Kuala Lipis	0	0	0	0	1	3	0	0	0
	TERENGGANU									
19	Sultanah Nur Zahirah, Kuala Terengganu	737	112	625	69	60	152	56	24	0
	KELANTAN									
20	Raja Perempuan Zainab II, Kota Bharu	538	44	494	35	73	236	36	152	0
	SARAWAK									
21	Umum Sarawak	240	62	178	3	23	64	7	5	0
22	Miri	88	9	79	12	1	9	0	0	0
23	Sibu	47	27	23	5	23	23	0	0	0
	SABAH									
24	Queen Elizabeth II	905	68	847	57	2	2	295	79	275
25	Dutchess Of Kent	72	34	65	49	26	4	0	0	0
	TOTAL	14297	2138	12153	621	474	1693	266	532	1836

Table 13: Anaesthetics administered according to techniques in KKM hospitals, 2015 (Paediatric)

No.	HOSPITAL	General Anaesthesia	Combined General & Regional Anaesthesia (CGRA)	Combined General & Plexus Blockade including Ilio-inguinal Block	MAC / Sedation	TIVA / TCI	TOTAL
	PERLIS						
1	Kangar	470	39	11	0	0	520
	KEDAH						
2	Alor Setar	NA	NA	NA	NA	NA	NA
3	Langkawi	121	4	6	3	0	134
4	Sultan Abdul Halim, Sungai Petani	546	0	0	0	0	546
5	Kulim	171	24	18	16	0	229
	PULAU PINANG						
6	Pulau Pinang	1109	38	24	80	0	1251
7	Seberang Jaya	449	0	0	0	0	449
8	Bukit Mertajam	76	0	8	0	0	84
9	Kepala Batas	4	8	0	0	0	12
	PERAK						
10	Ipoh	1693	224	0	1	0	1918
11	Seri Manjung	265	2	8	0	0	275
12	Teluk Intan	478	5	0	2	0	485
13	Taiping	469	48	32	0	0	549
14	Slim River	114	0	12	0	0	126
	SELANGOR						
15	Tuanku Ampuan Rahimah, Kelang	1069	0	54	0	0	1123
16	Ampang	NA	NA	NA	NA	NA	NA
17	Serdang	1052	0	43	0	0	1095
18	Selayang	1048	23	30	6	2	1109
19	Sungai Buloh	NA	NA	NA	NA	NA	NA
20	Kajang	377	0	30	5	0	412
	WILAYAH PERSEKUTUAN						
21	Kuala Lumpur	2628	259	35	0	0	2922
22	Putrajaya	373	0	0	0	0	373
23	Labuan	46	5	5	0	0	56
	NEGERI SEMBILAN						
24	Tuanku Jaafar, Seremban	963	2	0	45	0	1010
25	Tuanku Ampuan Najihah, Kuala Pilah	207	0	0	0	0	207
26	Port Dickson	31	4	6	0	0	41
	MELAKA						
27	Melaka	740	8	1	2	0	751
	JOHOR						
28	Sultanah Aminah, JB	1157	27	231	148	7	1570
29	Sultan Ismail, JB	592	0	0	0	0	592
30	Muar	0	0	86	0	0	86
31	Batu Pahat	352	66	4	0	0	422
32	Segamat	121	21	4	0	0	146
33	Kluang	159	9	0	0	0	168
	PAHANG						
35	Tengku Ampuan Afzan, Kuantan	1413	34	6	4	1	1458
36	Temerloh	577	0	27	5	0	609
37	Kuala Lipis	126	14	0	2	0	142
	TERENGGANU						
38	Sultanah Nur Zahirah, Kuala Terengganu	1052	33	24	116	63	1288
39	Kemaman	NA	NA	NA	NA	NA	NA
	KELANTAN						
40	Raja Perempuan Zainab II, Kota Bharu	665	160	0	2	30	857
41	Kuala Krai	NA	NA	NA	NA	NA	NA
42	Tanah Merah	143	1	0	3	0	147

No.	HOSPITAL	General Anaesthesia	Combined General & Regional Anaesthesia (CGRA)	Combined General & Plexus Blockade including Ilio-inguinal Block	MAC / Sedation	TIVA / TCI	TOTAL
	SARAWAK						
43	Umum Sarawak	1470	120	173	14	139	1916
44	Sibu	605	8	33	0	0	646
45	Miri	465	41	27	0	5	538
46	Bintulu	169	1	2	0	0	172
47	Sarikei	NA	NA	NA	NA	NA	NA
48	Kapit	NA	NA	NA	NA	NA	NA
49	Serian	NA	NA	NA	NA	NA	NA
50	Bau	NA	NA	NA	NA	NA	NA
51	Lundu	NA	NA	NA	NA	NA	NA
52	Simunjan	NA	NA	NA	NA	NA	NA
53	Sri Aman	NA	NA	NA	NA	NA	NA
54	Betong	NA	NA	NA	NA	NA	NA
55	Saratok	NA	NA	NA	NA	NA	NA
56	Mukah	NA	NA	NA	NA	NA	NA
57	Daro	NA	NA	NA	NA	NA	NA
58	Kanowit	NA	NA	NA	NA	NA	NA
59	Lawas	NA	NA	NA	NA	NA	NA
60	Limbang	NA	NA	NA	NA	NA	NA
61	Marudi	NA	NA	NA	NA	NA	NA
	SABAH						
62	Queen Elizabeth	32	0	0	0	0	32
	Queen Elizabeth II	91	0	0	0	0	91
63	Duchess Of Kent	323	6	0	0	0	329
64	Likas	2742	83	158	100	0	3083
65	Keningau	275	10	9	6	0	300
66	Tawau	152	6	0	0	0	158
67	Kudat	NA	NA	NA	NA	NA	NA
68	Kota Marudu	NA	NA	NA	NA	NA	NA
69	Kota Belud	NA	NA	NA	NA	NA	NA
70	Mesra, Bukit Padang	NA	NA	NA	NA	NA	NA
71	Papar	NA	NA	NA	NA	NA	NA
72	Beufort	NA	NA	NA	NA	NA	NA
73	Sipitang	NA	NA	NA	NA	NA	NA
74	Tenom	NA	NA	NA	NA	NA	NA
75	Tambunan	NA	NA	NA	NA	NA	NA
76	Ranau	NA	NA	NA	NA	NA	NA
77	Beluran	NA	NA	NA	NA	NA	NA
78	Pitas	NA	NA	NA	NA	NA	NA
79	Lahad datu	51	0	0	0	0	51
80	Kunak	NA	NA	NA	NA	NA	NA
81	Semporna	NA	NA	NA	NA	NA	NA
82	Kuala Penyu	NA	NA	NA	NA	NA	NA
	TOTAL	27231	1333	1107	560	247	30478

Table 14: Anaesthetics and nature of surgery in KKM hospitals, 2015 (Paediatric)

No.	HOSPITAL	Elective Surgery	Emergency Surgery		TOTAL
	PERLIS			(%)	
1	Kangar	320	200	38.5%	520
	KEDAH				
2	Alor Setar	NA	NA		NA
3	Langkawi	68	66	49.3%	134
4	Sultan Abdul Halim, Sungai Petani	207	339	62.1%	546
5	Kulim	139	90	39.3%	229
	PULAU PINANG				
6	Pulau Pinang	939	312	24.9%	1251
7	Seberang Jaya	249	202	44.8%	451
8	Bukit Mertajam	76	8	9.5%	84
9	Kepala Batas	12	0	0.0%	12
	PERAK				
10	Ipoh	1024	894	46.6%	1918
11	Seri Manjung	87	188	68.4%	275
12	Teluk Intan	240	245	50.5%	485
13	Taiping	302	247	45.0%	549
14	Slim River	77	49	38.9%	126
	SELANGOR				
15	Tuanku Ampuan Rahimah, Kelang	700	423	37.7%	1123
16	Ampang	NA	NA		NA
17	Serdang	849	246	22.5%	1095
18	Selayang	772	337	30.4%	1109
19	Sungai Buloh	NA	NA		NA
20	Kajang	216	196	47.6%	412
	WILAYAH PERSEKUTUAN				
21	Kuala Lumpur	1511	1117	42.5%	2628
22	Putrajaya	100	133	57.1%	233
23	Labuan	27	29	51.8%	56
	NEGERI SEMBILAN				
24	Tuanku Jaafar, Seremban	629	381	37.7%	1010
25	Tuanku Ampuan Najihah, Kuala Pilah	89	118	57.0%	207
26	Port Dickson	13	41	75.9%	54
	MELAKA				
27	Melaka	429	222	34.1%	651
	JOHOR				
28	Sultanah Aminah, JB	1017	800	44.0%	1817
29	Sultan Ismail, JB	NA	NA		NA
30	Muar	NA	NA		NA
31	Batu Pahat	203	221	52.1%	424
32	Segamat	77	69	47.3%	146
33	Kluang	51	118	69.8%	169
	PAHANG				
34	Tengku Ampuan Afzan, Kuantan	807	651	44.7%	1458
35	Temerloh	347	262	43.0%	609
36	Kuala Lipis	65	77	54.2%	142
	TERENGGANU				
37	Sultanah Nur Zahirah, Kuala Terengganu	883	405	31.4%	1288

No.	HOSPITAL	Elective Surgery	Emergency Surgery		TOTAL
	SARAWAK				
41	Umum Sarawak	1258	684	35.2%	1942
42	Sibu	409	276	40.3%	685
43	Miri	314	224	41.6%	538
44	Bintulu	90	82	47.7%	172
45	Sarikei	NA	NA		NA
46	Kapit	NA	NA		NA
47	Serian	NA	NA		NA
48	Bau	NA	NA		NA
49	Lundu	NA	NA		NA
50	Simunjan	NA	NA		NA
51	Sri Aman	NA	NA		NA
52	Betong	NA	NA		NA
53	Saratok	NA	NA		NA
54	Mukah	NA	NA		NA
55	Daro	NA	NA		NA
56	Kanowit	NA	NA		NA
57	Lawas	NA	NA		NA
58	Limbang	NA	NA		NA
59	Marudi	NA	NA		NA
	SABAH				
60	Queen Elizabeth	32	0	0.0%	32
	Queen Elizabeth II	91	0	0.0%	91
61	Duchess Of Kent	176	153	46.5%	329
62	Likas	2013	1070	34.7%	3083
63	Keningau	70	230	76.7%	300
64	Tawau	76	82	51.9%	158
65	Kudat	NA	NA		NA
66	Kota Marudu	NA	NA		NA
67	Kota Belud	NA	NA		NA
68	Mesra, Bukit Padang	NA	NA		NA
69	Papar	NA	NA		NA
70	Beaufort	NA	NA		NA
71	Sipitang	NA	NA		NA
72	Tenom	NA	NA		NA
73	Tambunan	NA	NA		NA
74	Ranau	NA	NA		NA
75	Beluran	NA	NA		NA
76	Pitas	NA	NA		NA
77	Lahad datu	51	0	0.0%	51
78	Kunak	NA	NA		NA
79	Semporna	NA	NA		NA
80	Kuala Penyu	NA	NA		NA
TOTAL		18063	11978	39.9%	30041

Table 15: Anaesthetics for day care surgery and day of surgery admissions in KKM hospitals, 2015 (Paediatric)

No.	HOSPITAL	Day Care Surgery	Day Of Surgery Admissions
	PERLIS		
1	Kangar	14	35
	KEDAH		
2	Langkawi	4	0
3	Sungai Petani	58	0
4	Kulim	5	0
	PULAU PINANG		
5	Pulau Pinang	156	0
6	Seberang Jaya	124	0
7	Kepala Batas	9	0
	PERAK		
8	Ipoh	460	113
9	Seri Manjung	13	0
10	Teluk Intan	23	2
11	Taiping	5	7
12	Slim River	6	0
	SELANGOR		
13	Tuanku Ampuan Rahimah, Kelang	268	5
14	Serdang	283	0
15	Selayang	232	0
	WILAYAH PERSEKUTUAN		
16	Kuala Lumpur	574	0
17	Putrajaya	140	0
	NEGERI SEMBILAN		
18	Serenban	286	20
	MELAKA		
19	Melaka	53	0
	JOHOR		
20	Sultan Ismail, JB	443	28
	PAHANG		
21	Tengku Ampuan Afzan, Kuantan	204	9
22	Temerloh	17	0
	TERENGGANU		
23	Sultanah Nur Zahirah, Kuala Terengganu	121	0
	KELANTAN		
24	Kota Bharu	81	13
	SARAWAKK		
25	Umum Sarawak	72	0
	SABAH		
26	Likas	100	0
	TOTAL	3751	232

Table 16: No. of anaesthetics administered in KKM hospitals, 2011-2015

No.	HOSPITAL	2011	2012	2013	2014	2015
	PERLIS					
1	Kangar	4447	4675	4575	4972	5331
	KEDAH					
2	Alor Setar	14300	16360	16330	16492	16398
3	Langkawi	1203	1605	2044	1921	1788
4	Sultan Abdul Halim, Sungai Petani	9713	10241	10443	11463	11651
5	Kulim	4229	4306	3951	4199	4583
	PULAU PINANG					
6	Pulau Pinang	13044	13663	11752	14014	13188
7	Seberang Jaya	6758	5781	3518	6580	7711
8	Bukit Mertajam	1249	1846	3340	1625	1410
9	Kepala Batas	294	398	666	226	178
	PERAK					
10	Ipoh	16359	17072	16520	17196	17535
11	Seri Manjung	4026	3920	3800	3954	4073
12	Teluk Intan	5057	5129	5036	5502	5448
13	Taiping	9636	10084	10320	10059	9517
14	Slim River	860	1411	1425	1478	1280
	SELANGOR					
15	Tuanku Ampuan Rahimah, Kelang	11949	12068	13530	13747	13657
16	Ampang	5928	6224	6651	7386	7502
17	Serdang	9145	9709	NA	10422	9440
18	Selayang	10297	11615	12343	12692	12872
19	Sungai Buloh	8421	10408	11469	12214	12568
20	Kajang	4202	4246	4391	4896	4975
21	Banting			NA	495	566
	WILAYAH PERSEKUTUAN					
22	Kuala Lumpur	24865	25947	27020	25732	26404
23	Putrajaya	6117	6384	6304	7270	6922
24	Labuan	570	759	914	799	775
	NEGERI SEMBILAN					
25	Tuanku Jaafar, Seremban	10872	10258	9922	10397	11371
26	Tuanku Ampuan Najihah, Kuala Pilah	2352	2663	3183	3077	2790
27	Port Dickson	79	284	NA	733	776
	MELAKA					
28	Melaka	13191	13361	13771	13827	14260
	JOHOR					
29	Sultanah Aminah, JB	15136	15665	16115	15616	15585
30	Sultan Ismail, JB	7040	8065	8346	9750	9321
31	Muar	2523	4933	4828	5014	4986
32	Batu Pahat	4717	4760	4578	5285	5662
33	Segamat	2442	3204	3556	3713	3336
34	Kluang	870	1573	3008	3218	3737
35	Kulai	623	565	NA	NA	NA
	PAHANG					
36	Tengku Ampuan Afzan, Kuantan	10126	10792	10632	12350	14263
37	Temerloh	6214	6431	6504	6581	7106
38	Kuala Lipis	1165	936	NA	1826	1732
	TERENGGANU					
39	Sultanah Nur Zahirah, Kuala Terengganu	10994	11228	11446	11859	13929
40	Kemaman	1600	1725	1880	1810	NA
	KELANTAN					
41	Raja Perempuan Zainab II, Kota Bharu	11007	11209	11008	11892	9251
42	Kuala Krai	2170	2156	2293	2144	2492
43	Tanah Merah	1766	1678	NA	1977	2015
44	Pasir Mas	194	NA	NA	NA	NA
45	Pasir Puteh	225	NA	NA	NA	NA

No.	HOSPITAL	2011	2012	2013	2014	2015
	SARAWAK					
46	Umum Sarawak	12068	13410	14510	14553	15317
47	Sibu	6043	6401	6651	6992	6871
48	Miri	4474	4926	4221	4544	4695
49	Bintulu	2562	2631	2586	2264	2587
50	Sarikei	823	577	889	938	921
51	Kapit	413	434	288	228	291
52	Serian	451	416	572	493	403
53	Bau	130	157	164	42	35
54	Lundu	337	266	261	225	210
55	Simunjan	63	68	27	34	44
56	Sri Aman	159	260	103	140	105
57	Betong	237	111	91	298	253
58	Saratok	52	88	60	39	37
59	Mukah	246	209	248	218	234
60	Daro	73	39	42	8	4
61	Kanowit	25	69	41	118	176
62	Lawas	129	183	234	144	104
63	Limbang	642	665	798	791	673
64	Marudi	163	203	117	100	91
	SABAH					
65	Queen Elizabeth	6467	9352	10033	1374	2129
	Queen Elizabeth II				8933	8833
66	Duchess Of Kent	4444	5233	5259	5216	4600
67	Likas	8439	8583	8863	9183	9959
68	Keningau	2557	2040	1954	2190	2109
69	Tawau	4631	5288	5795	5478	5246
70	Kudat	351	339	405	323	377
71	Kota Marudu	277	231	266	211	174
72	Kota Belud	465	312	299	295	179
73	Mesra, Bukit Padang	456	385	565	593	807
74	Papar	149	72	NA	NA	397
75	Beaufort	206	317	395	460	108
76	Sipitang	98	49	41	70	13
77	Tenom	479	436	224	NA	213
78	Tambunan	232	216	253	220	2026
79	Ranau	1870	1715	2037	2111	62
80	Beluran	206	237	206	165	59
81	Pitas	NA	NA	56	NA	66
82	Kinabatangan	94	63	NA	81	2094
83	Lahad datu	1255	1609	2053	2027	71
84	Kunak	11	20	NA	35	131
85	Semporna	92	88	53	44	8
86	Kuala Penyu	NA	4	28	50	54
TOTAL		341855	365047	360085	389645	393165

Table 17: No. of anaesthetics administered for emergency surgery in KKM hospitals, 2011 – 2015

No	HOSPITAL	2011	2012	2013	2014	2015
	PERLIS					
1	Kangar	57.30%	57.69%	56.40%	58.50%	58.41%
	KEDAH					
2	Alor Setar	55.89%	57.20%	55.70%	58.91%	61.32%
3	Langkawi	65.86%	70.28%	73.70%	69.74%	62.12%
4	Sultan Abdul Halim, Sungai Petani	69.00%	69.58%	66.70%	66.14%	66.85%
5	Kulim	62.80%	61.82%	59.10%	63.02%	74.56%
	PULAU PINANG					
6	Pulau Pinang	40.16%	49.03%	43.50%	48.49%	48.67%
7	Seberang Jaya	72.36%	75.45%	88.20%	70.93%	70.54%
8	Bukit Mertajam	1.28%	28.55%	59.70%	11.20%	6.74%
9	Kepala Batas	0.00%	0.00%	0.00%	0.00%	18.54%
	PERAK					
10	Ipoh	58.92%	59.61%	58.90%	57.93%	57.42%
11	Seri Manjung	66.57%	67.24%	63.30%	71.40%	70.59%
12	Teluk Intan	70.26%	70.54%	67.30%	59.69%	62.70%
13	Taiping	62.65%	59.37%	67.20%	62.13%	58.66%
14	Slim River	58.72%	55.92%	59.00%	49.12%	52.58%
	SELANGOR					
15	Tuanku Ampuan Rahimah, Kelang	54.05%	59.19%	54.80%	55.67%	55.64%
16	Ampang	56.49%	53.98%	58.80%	58.85%	59.37%
17	Serdang	50.51%	50.94%	NA	52.09%	55.39%
18	Selayang	48.85%	45.32%	45.90%	47.65%	47.58%
19	Sungai Buloh	67.39%	64.92%	60.20%	59.87%	57.41%
20	Kajang	70.69%	69.08%	71.20%	73.67%	70.65%
21	Banting	NA	NA	NA	NA	43.29%
	WILAYAH PERSEKUTUAN					
22	Kuala Lumpur	44.67%	45.28%	44.40%	45.48%	44.64%
23	Putrajaya	46.07%	44.08%	47.20%	48.18%	58.40%
24	Labuan	51.58%	58.23%	68.70%	66.71%	62.97%
	NEGERI SEMBILAN					
25	Tuanku Jaafar, Seremban	55.21%	52.12%	54.60%	52.51%	54.71%
26	Tuanku Ampuan Najihah, Kuala Pilah	57.78%	57.30%	63.00%	65.32%	69.32%
27	Port Dickson	48.10%	72.89%	NA	57.71%	57.20%
	MELAKA					
28	Melaka	61.99%	63.48%	59.20%	60.26%	40.53%
	JOHOR					
29	Sultanah Aminah, JB	56.38%	65.70%	65.40%	67.99%	68.03%
30	Sultan Ismail, JB	65.91%	65.94%	65.40%	62.09%	63.39%
31	Muar	58.70%	53.54%	50.50%	68.27%	69.47%
32	Batu Pahat	67.95%	65.82%	60.90%	65.00%	60.61%
33	Segamat	65.11%	61.80%	63.40%	65.07%	67.45%
34	Kluang	69.77%	64.84%	68.70%	66.10%	57.99%
	PAHANG					
35	Tengku Ampuan Afzan, Kuantan	54.57%	53.47%	55.70%	54.98%	57.47%
36	Temerloh	67.04%	58.19%	57.20%	58.38%	63.51%
37	Kuala Lipis	63.78%	72.22%	NA	72.73%	66.97%
	TERENGGANU					
38	Sultanah Nur Zahirah, Kuala Terengganu	61.30%	59.52%	58.00%	57.29%	58.61%
39	Kemaman	65.19%	63.83%	64.50%	62.87%	NA
	KELANTAN					
40	Raja Perempuan Zainab II, Kota Bharu	56.64%	59.36%	57.40%	55.86%	58.97%
41	Kuala Krai	65.14%	69.94%	69.90%	62.69%	65.79%
42	Tanah Merah	74.24%	74.61%	NA	69.80%	69.88%

No	HOSPITAL	2011	2012	2013	2014	2015
	SARAWAK					
43	Umum Sarawak	60.82%	57.38%	53.80%	54.02%	53.94%
44	Sibu	49.03%	53.65%	54.10%	50.40%	53.60%
45	Miri	72.02%	72.70%	66.70%	63.73%	60.09%
46	Bintulu	59.91%	59.29%	64.50%	65.68%	62.78%
47	Sarikei	47.27%	70.54%	57.40%	56.08%	53.09%
48	Kapit	39.95%	45.39%	43.40%	55.26%	45.02%
49	Serian	58.31%	45.91%	51.00%	55.98%	53.60%
50	Bau	62.31%	42.68%	15.20%	47.62%	60.00%
51	Lundu	28.19%	20.68%	44.80%	26.22%	18.57%
52	Simunjan	57.14%	57.35%	51.90%	44.12%	11.36%
53	Sri Aman	47.17%	51.92%	45.60%	45.71%	54.29%
54	Betong	52.74%	39.64%	28.60%	15.77%	15.02%
55	Saratok	51.92%	25.00%	33.30%	51.28%	40.54%
56	Mukah	34.55%	44.50%	47.60%	41.28%	23.50%
57	Daro	35.62%	51.28%	9.50%	87.50%	75.00%
58	Kanowit	80.00%	37.68%	12.20%	0.85%	0.00%
59	Lawas	48.84%	40.98%	46.60%	58.33%	44.23%
60	Limbang	33.18%	34.89%	29.30%	31.86%	29.57%
61	Marudi	41.72%	32.51%	51.30%	42.00%	57.14%
	SABAH					
62	Queen Elizabeth	53.58%	45.78%	47.50%	48.10%	31.52%
	Queen Elizabeth II					47.14%
63	Duchess Of Kent	62.20%	62.83%	64.60%	65.26%	70.00%
64	Likas	62.70%	62.61%	59.20%	60.13%	62.13%
65	Keningau	56.71%	64.56%	63.00%	66.62%	65.67%
66	Tawau	67.57%	67.11%	72.10%	73.55%	72.59%
67	Kudat	27.64%	30.38%	25.40%	46.75%	47.21%
68	Kota Marudu	46.57%	48.05%	54.50%	53.55%	68.39%
69	Kota Belud	38.49%	42.95%	44.80%	49.83%	53.63%
70	Mesra, Bukit Padang	0.00%	0.00%	0.00%	0.00%	0.00%
71	Papar	0.00%	0.00%	NA	NA	40.55%
72	Beaufort	46.60%	51.42%	44.30%	50.87%	51.85%
73	Sipitang	54.08%	57.14%	92.70%	94.29%	0.00%
74	Tenom	9.81%	5.28%	100.00%	NA	79.81%
75	Tambunan	73.71%	78.24%	85.80%	80.45%	71.22%
76	Ranau	69.20%	64.66%	67.50%	68.71%	22.58%
77	Beluran	46.60%	35.44%	24.30%	16.36%	40.68%
78	Pitas	NA	NA	62.50%	56.79%	69.70%
79	Kinabatangan	37.23%	42.86%	NA	NA	69.29%
80	Lahad datu	67.81%	64.57%	70.00%	74.54%	0.00%
81	Kunak	0.00%	45.00%	NA	34.29%	79.39%
82	Semporna	90.22%	84.09%	83.00%	43.18%	0.00%
83	Kuala Penyu	NA	68.42%	100.00%	98.00%	59.26%
	AVERAGE	57.24%	57.70%	57.20%	57.63%	57.51%

Table 18: Saturdays Lists in KKM Hospitals, 2015

Bil	Hospital	No. of operations done under Saturday List			No. of Saturday elective list (as of Dec 31st 2015)
		General Anaesthesia	Local Anaesthesia	Total	
1	Kangar	40	4	44	44
2	Alor Setar	360	340	700	116
3	Langkawi	27	0	27	27
4	Sultan Abdul Halim,Sungai Petani	42	13	55	55
5	Kulim	35	9	44	44
6	Pulau Pinang	548	214	762	221
7	Seberang Jaya	212	339	551	125
8	Kepala Batas	0	2	2	2
9	Ipoh	5	0	5	397
10	Teluk Intan	74	27	101	101
11	Taiping	252	107	359	87
12	Tuanku Ampuan Rahimah, Kelang	470	172	642	642
13	Ampang	108	12	120	120
14	Serdang	85	39	124	124
15	Selayang	503	109	612	183
16	Sungai Buloh	178	1	179	179
17	Kajang	228	0	228	228
18	Kuala Lumpur	328	205	533	533
19	Putrajaya	309	13	322	322
20	Tuanku Jaafar, Seremban	180	1	181	181
21	Kuala Pilah	44	0	44	44
22	Melaka	327	34	361	361
23	Sultanah Aminah, JB	466	96	562	164
24	Sultan Ismail, JB	232	0	232	NA
25	Muar	14	0	14	14
26	Batu Pahat	98	0	98	24
27	Segamat	85	12	97	32
28	Tengku Ampuan Afzan, Kuantan	93	80	173	173
29	Temerloh	181	85	266	266
30	Kuala Terengganu	363	0	363	363
31	Kota Bharu	157	101	258	258
32	Kuala Krai	52	0	52	52
33	Umum Sarawak	336	413	749	190
34	Miri	143	84	227	70
35	Sibu	56	43	99	99
36	Queen Elizabeth	103	104	207	90
37	Queen Elizabeth	277	46	323	95
38	Likas	89	0	89	89
39	Sandakan	30	17	47	47
TOTAL		7130	2722	9852	6162

Table 19 Trends in output for Program Anestisiologi KKM 2004 - 2015

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
												(% increase from 2014)
No. of anaesthetics administered	229686	266660	277271	286324	301321	308391	319628	339844	363039	358100	387631	391150
												↑ 0.91%
No. of anaesthetics for day care surgery	NA	NA	4777	5190	5363	5315	5543	8367	9838	10608	10922	12535
												↑ 14.77%
No. of patients under acute pain service	18731	22459	31131	40490	52440	61583	65319	81801	91766	98246	114131	126223
												↑ 10.59%
No. of patients under obstetric analgesia service	NA	3161	3367	3137	3363	3952	4370	3949	3597	4654	5298	5667
												↑ 6.96%
No. of attendance at anaesthetic clinic	NA	NA	16266	20363	30795	48491	52880	61873	76686	87522	91258	98938
												↑ 8.41%
No. of ICU admissions	15115	13027	16234	20075	23928	24908	30089	32621	36542	46906	40661	40283
												↓ 0.93%
No. of HDU admissions	NA	NA	3226	3536	5662	7000	7474	5991	6212	6402	7378	7375
												↓ 0.04%
No. of attendance at chronic pain clinic	NA	NA	173	1785	3199	4622	6281	7368	8954	10756	12196	14297
												↑ 17.23%

No. of anaesthetics administered 2004 - 2015

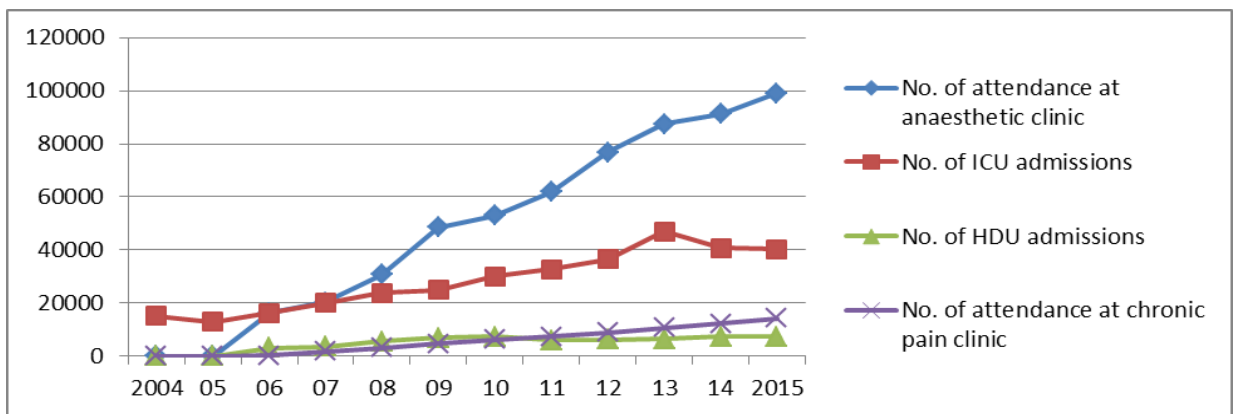
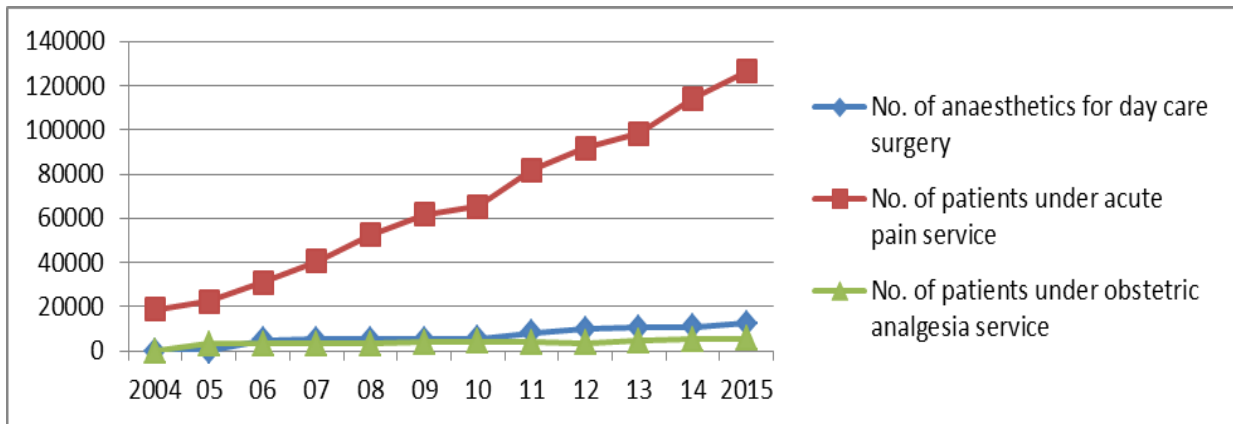
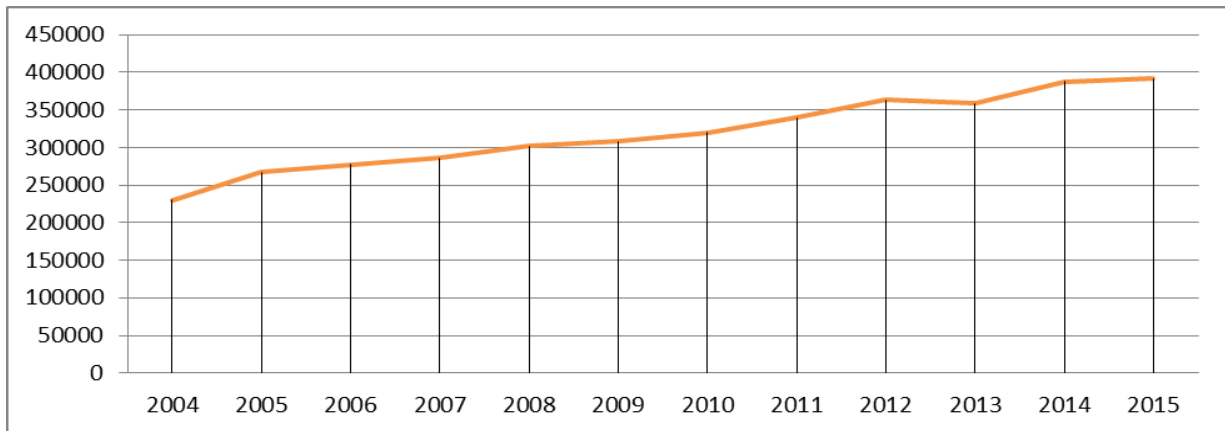


Table 20: Anaesthetic specialists in KKM hospitals, 2015

NO	HOSPITAL	No. Of Specialist											TOTAL
		Jusa A	Jusa B	Jusa C	U54 / U53	U52 / U51	U48 / U47	U44 / U43	Contract	Sessional	Paid Leave	OTHER	
	PERLIS												
1	Kangar			1	3	2							6
	KEDAH												
2	Alor Setar			2	11								13
3	Langkawi				2								2
4	Sultan Abdul Halim, Sg Petani			2	5				1				8
5	Kulim			1		1	1						3
	PULAU PINANG												
6	Pulau Pinang	1	1	9	14	5							30
7	Seberang Jaya				3	4	1						8
8	Kepala Batas				1								1
	PERAK												
9	Ipoh		1	2	13								16
10	Seri Manjung			1	1								2
11	Teluk Intan			1	2		1						4
12	Taiping			2	6								8
13	Slim River				1								1
	SELANGOR												
14	T. Ampuan Rahimah, Kelang			2	10								12
15	Ampang		1	3	7								11
16	Serdang		1	3	7							5	16
17	Selayang		3	3	15		1						22
18	Sungai Buloh		1	3	11		2			2			19
19	Kajang			1	4								5
20	Banting				1	1							
	WILAYAH PERSEKUTUAN												
21	Kuala Lumpur	1		6	41	1	4		1				54
22	Putrajaya		1	2	5								8
23	Labuan			1									1
	NEGERI SEMBILAN												
24	Tuanku Jaafar, Seremban		1	1	10	2							14
25	T. Ampuan Najihah, K. Pilah			1	2								3
26	Port Dickson				1								1
	MELAKA												
27	Melaka			2	11								13
	JOHOR												
28	Sultanah Aminah, JB	1	1	6	12	6	2						28
29	Sultan Ismail, JB			2	6	1	1						10
30	Muar			1	4								5
31	Batu Pahat				4				1				5
32	Segamat				2								2
33	Kluang				1	1	1						3
	PAHANG												
34	T. Ampuan Afzan, Kuantan			3	4	6						1	14
35	Temerloh			1	4		2						7
36	Kuala Lipis				2								2
	TERENGGANU												
37	Sltanh Nur Zahirah, K. Trganu		1	2	12	1							16
38	Kemaman	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	KELANTAN												
39	RJ Prmpn Zainab II, K. Bharu		1	5	13								19
40	Kuala Krai			1	1								2
41	Tanah Merah				2								2
	SARAWAK												
42	Umum Sarawak	1		3	10		3						17
43	Sibu			1		1	1						3
44	Miri					3							3
45	Bintulu				1		1						2
46	Sarikei					1	1						2
	SABAH												
47	Queen Elizabeth		1	1	12	2	4						20
	Queen Elizabeth II (Cardio)			2									2
48	Likas			1	3	1							5
49	Lahad datu					1							1
50	Sandakan			1	3								4
51	Tawau			1	1	1	2						5
TOTAL		4	14	80	284	41	28	0	3	2	0	6	460

Table 21: Anaesthetic medical officers and trainees in KKM hospitals, 2015

NO	HOSPITAL	No. Of Service MO							No. Of Trainees						TOTAL
		U54 / U53	U52 / U51	U48 / U47	U44 / U43	U41	Other / Contract	TOTAL	U54 / U53	U52 / U51	U48 / U47	U44 / U43	U41	Other / Contract	
	PERLIS														
1	Kangar	2		4	12			18							0
	KEDAH														
2	Alor Setar	1	3	12	14			30		1	4				5
3	Langkawi				3			3							0
4	Sultan Abdul Halim, Sg Petani	2	1		17			20							0
5	Kulim				10			10							0
	PULAU PINANG														
6	Pulau Pinang	1	2	6	9			18			16	4			20
7	Seberang Jaya			1	22			23							0
8	Bukit Mertajam				7			7							0
9	Kepala Batas				5			5							0
	PERAK														
10	Ipoh			8	19	5		32			3	5			8
11	Seri Manjung			3	4	2		9							0
12	Teluk Intan			2	6			8							0
13	Taiping			4	11			15							0
14	Slim River	1		2	3			6							0
	SELANGOR														
15	T. A. Rahimah, Kelang		1	11	20			32			3				3
16	Ampang	2	1	12	17			32							0
17	Serdang			1	24			25			8				8
18	Selayang			9	13			22			11	9			20
19	Sungai Buloh	1		11	29			41			5				5
20	Kajang	1	1	6	12			20							0
21	Banting				6										
	WILAYAH PERSEKUTUAN														
22	Kuala Lumpur	2		6	48		7	63			20	36			56
23	Putrajaya	1	1	10	10			22			4			1	5
24	Labuan				2			2							0
	NEGERI SEMBILAN														
25	Tuanku Jaafar, Seremban		1	15	11		4	31						2	2
26	T. A. Najihah, K. Pilah	1		2	7			10							0
27	Port Dickson			2	4			6							0
	MELAKA														
28	Melaka		3	10	25		5	43							0
	JOHOR														
29	Sultanah Aminah, JB		3	10	5		16	34							0
30	Sultan Ismail, JB			1	20		1	22							0
31	Muar	1		2	14			17							0
32	Batu Pahat			4	11			15							0
33	Segamat				9			9							0
34	Kluang		1		10			11							0
	PAHANG														
35	T. Ampuan Afzan, Kuantan	3	3	5	18			29			3	1			4
36	Temerloh			2	13	5		20							0
37	Kuala Lipis				5			5							0
	TERENGGANU														
38	S. Nur Zahirah, K. Trganu	1		5	31			37		1	8	4		13	26
39	Kemaman	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	KELANTAN														
40	R.J.P. Zainab II, K. Bharu	2		2	27			31			13				13
41	Tanah Merah			1	4			5							0
42	Kuala Krai			1	7			8							0
	SARAWAK														
43	Umum Sarawak			1	50			51			11				11
44	Sibu			1	35		1	37							0
45	Miri			3	16			19							0
46	Bintulu			1	10		1	12							0
47	Sarikei				9			9							
48	Kapit				1			1							
	SABAH														
49	Queen Elizabeth			2	25			27			4	9			13
	Queen Elizabeth II				4			4							0
50	Likas	1	1	2	14	1		19							0
51	Keningau	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
52	Lahad datu			1	8			9							0
53	Sandakan			3	13			16							0
54	Tawau				14			14							0
	TOTAL	23	22	184	743	13	35	1014	0	2	113	68	0	16	199

Table 22: Anaesthetic /ICU nurses and assisted medical officers in KKM hospitals, 2015

NO	HOSPITAL	No. Of Allied Health Personnel																			
		MA						GA Nurse						ICU nurse						TOTAL	
		U42	U41	U36	U32	U32 (KUP)	U29	U42	U41	U36	U32	U32 (KUP)	U29	U19 (JM)	U42	U41	U36	U32	U32 (KUP)		U29
	PERLIS																				
1	Kangar				2		3				2		33					11	17		68
	KEDAH																				
2	Alor Setar		1		2	2		1			6	4	37		1			4	10	76	144
3	Langkawi				1		1					1	7					3		10	23
4	Sg Petani				3		4				13		29		1	1		33		44	128
5	Kulim				1		2				4		10					15		18	50
	PULAU PINANG																				
6	Pulau Pinang		1		3		3						35	1	1		1	2		117	164
7	Seberang Jaya				1		2						21		1		1	3		64	93
8	Bukit Mertajam						1						4					1		11	17
9	Kepala Batas						1				3							14		5	23
	PERAK																				
10	Ipoh		1		2		7					1	34		1	1	1	6	12	136	202
11	Seri Manjung				2		1				4		8					10		21	46
12	Teluk Intan				1		1				2		15					5		28	52
13	Taiping				2		2				1	3	27					2	20	72	129
14	Slim River				1		3						3	2				1		18	28
	SELANGOR																				
15	Kelang	1			2		10				2		31					14		144	204
16	Ampang			1	1		4		1		7		62				1	5		57	139
17	Serdang			1	4		8				2		26				1	3		81	126
18	Selayang			1	1		4				1		29				1	4	3	91	135
19	Sungai Buloh				1		4						39			1		6		137	188
20	Kajang				1		2				1	2	10			1		2	3	24	46
21	Banting				1		3											1		16	21
	W. PERSEKUTUAN																				
22	Kuala Lumpur	1	1	1	6		11				3		65			1		6		153	248
23	Putrajaya	1			1		3						19				1	1	16	41	83
24	Labuan												2					4		15	21
	NEGERI SEMBILAN																				
25	Seremban		1		2		7						21					2	7	26	66
26	Kuala Pilah				2		6						5				1	9		33	56
27	Port Dickson						1						4			1		6		12	24
	MELAKA																				
28	Melaka	1	1	1	2						1		36			1	1	6		103	153
	JOHOR																				
29	Sultanah Aminah, JB		1	1	3		7			1	2		40			1	1	10		128	195
30	Sultan Ismail, JB			1	1		4						20			1	1	3	5	72	108
31	Muar				3	1	1					2	14				1	2	8	22	54
32	Batu Pahat				1		3				3		14			1		2	9	31	64
33	Segamat				2		2				5		8			1	1	7		24	50
34	Kluang				2		3				2		8					4		22	41
	PAHANG																				
35	Kuantan			1	1		5				11		37				1	23		86	165
36	Temerloh				3	1	5				2	4	35			1	1	7	2	72	133
37	Kuala Lipis						1						6					1		13	21
	TERENGGANU																				
38	Kuala Terengganu			1	2	4	6					11	25				1	4	24	75	153
39	Kemaman	NA																			0
	KELANTAN																				
40	Kota Bharu			1	2	4	6			1	2	20	40			1	1	4	43	52	177
41	Kuala Krai				1		2						15			1		3		28	50
42	Tanah Merah				1							6	9					2	3	18	39

NO	HOSPITAL	No. Of Allied Health Personnel																			
		MA						GA Nurse						ICU nurse						TOTAL	
		U42	U41	U36	U32	U32 (KUP)	U29	U42	U41	U36	U32	U32 (KUP)	U29	U19 (JM)	U42	U41	U36	U32	U32 (KUP)		U29
	SARAWAK																				
43	Umum Sarawak	1	1	4	4		21	1		1		7				1	4		89	134	
44	Bau				1		1													2	
45	Lundu				1															1	
46	Serian			1			1													2	
47	Simunjan						1													1	
48	Sri Aman				1		1													2	
49	Betong				1		1													2	
50	Saratok				1															1	
51	Sarikei	1			2												1		15	19	
52	Kanowit						2													2	
53	Sibu			1	7		3					3			1	1	1		84	101	
54	Daro				1		1													2	
55	Mukah				2															2	
56	Bintulu			1	2		4								1	1	2		23	34	
57	Miri			1	1		1			1		5			1	1	7		35	53	
58	Marudi				1															1	
59	Limbang				1		1													2	
60	Lawas				1		1													2	
61	Kapit				1		2													3	
	SABAH																				
62	Queen Elizabeth	1		1	3		8					10	2		1		5		78	109	
	Q. Elizabeth II (General)	1			4		9			1		13	3		1	1	11		58	102	
	Q. Elizabeth II (Cardio)	1		1	1		3														
63	Likas				2		7			1		8				1	2		42	63	
64	Keningau																			0	
65	Lahad datu	1			1		2										3		19	26	
66	Sandakan				3		4			2		8			1	1	9		58	86	
67	Tawau				3		6					19				2	8		42	80	
68	Kudat	NA																		0	
69	Kota Marudu	NA																		0	
70	Pitas	NA																		0	
71	Kota Belud	NA																		0	
72	Mesra Bukit Padang	NA																		0	
73	Papar	NA																		0	
74	Beaufort	NA																		0	
75	Kuala Penyu	NA																		0	
76	Sipitang	NA																		0	
77	Tenom	NA																		0	
78	Tambunan	NA																		0	
79	Ranau	NA																		0	
80	Beluran	NA																		0	
81	Kinabatangan	NA																		0	
82	Kunak	NA																		0	
83	Semporna	NA																		0	
TOTAL		10	8	20	112	12	219	1	2	2	85	54	956	8	5	20	26	304	182	2739	4759
		381						1108						3276							

Table 23: Subspecialists under Program Anestisiologi in KKM hospitals, 2015

No.	Hospital	Cardiac Anaesthesia		Pediatric Anesthesia		Regional Anesthesia		Neuro Anaesthesia		Obstetric Anesthesia		Anaesthesia for Transplant Surgery		Intensive Care (Adult)		Pain Management		TOTAL	
		Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee
1	Alor Setar													1		2		3	0
2	P. Pinang	6	1					1						1	2	1		9	3
3	Ipoh			1						1				2		2		6	0
4	Taiping															1		1	0
5	TAR Kelang									1				1		1		3	0
6	Serdang	3	1	1														4	1
7	Selayang			1						1		2		1	1	3	4	8	5
8	Sungai Buloh							1	1					3	2	1		5	3
9	Kuala Lumpur			4		2	1	3		2				4		2		17	1
10	Putrajaya							1										1	0
11	Seremban			1						1								2	0
12	Melaka			1										1		2		4	0
13	Sultanah Aminah, JB	4		2										2		1		9	0
14	Sultan Ismail, JB													1		1		2	0
15	Kuantan		1					1			1				1			1	3
16	Kuala Terengganu			1							1			2		1		4	1
17	Kota Bharu	1		1										3		1	1	6	1
18	Umum Sarawak	3	1	1					1							1		5	2
19	Sibu													1				1	0
20	Queen Elizabeth													1				1	0
21	Queen Elizabeth II	2																2	0
	Total	19	4	14	0	2	1	7	2	6	2	2	0	24	6	20	5	94	20

Total no. of subspecialists = 94

Total no. of subspecialty trainees = 20

Table 24: No. of ICU / HDU beds and OT in KKM hospitals 2015

NO	HOSPITAL	Facility					
		ICU Bed		HDU Bed		OR	
		Available	Functional	Available	Functional	Available	Functional
	PERLIS						
1	Kangar	5	5	4	4	5	5
	KEDAH						
2	Alor Setar	10	10	14	14	14	13
3	Langkawi	5	5	0	0	2	2
4	Sultan Abdul Halim, Sungai Petani	18	16	0	0	9	9
5	Kulim	8	7	0	0	3	3
	PULAU PINANG						
6	Pulau Pinang	26	23	0	0	17	16
7	Seberang Jaya	13	10	0	0	4	4
8	Bukit Mertajam	7	7	0	0	3	3
9	Kepala Batas	4	4	0	0	4	2
	PERAK						
10	Ipoh	30	30	20	20	18	18
11	Seri Manjung	8	8	0	0	3	3
12	Teluk Intan	4	4	0	0	7	7
13	Taiping	20	20	0	0	12	4
14	Slim River	7	7	0	0	3	3
	SELANGOR						
15	Tuanku Ampuan Rahimah, Kelang	22	22	10	10	17	13
16	Ampang	12	12	12	4	13	12
17	Serdang	19	13	0	0	20	16
18	Selayang	25	25	0	0	22	22
19	Sungai Buloh	18	18	24	20	23	15
20	Kajang	6	6	0	0	3	3
21	Banting	10	7	0	0	1	1
	WILAYAH PERSEKUTUAN						
22	Kuala Lumpur	43	43	0	0	38	33
23	Putrajaya	11	11	0	0	9	9
24	Labuan	5	5	0	0	2	2
	NEGERI SEMBILAN						
25	Tuanku Jaafar, Seremban	8	8	8	7	16	16
26	Tuanku Ampuan Najihah, Kuala Pilah	8	8	0	0	3	3
27	Port Dickson	4	4	0	0	1	1
	MELAKA						
28	Melaka	22	22	2	2	11	11
	JOHOR						
29	Sultanah Aminah, JB	32	32	0	0	13	13
30	Sultan Ismail, JB	12	12	20	10	17	8
31	Muar	8	8	14	4	4	4
32	Batu Pahat	18	7	0	0	6	6
33	Segamat	4	4	6	6	3	2
34	Kluang	6	6	0	0	6	4
	PAHANG						
35	Tengku Ampuan Afzan, Kuantan	21	21	0	0	13	13
36	Temerloh	18	10	0	0	10	8
37	Kuala Lipis	6	3	0	0	3	2
	TERENGGANU						
38	Sultanah Nur Zahirah, Kuala Terengganu	23	21	0	0	18	17
39	Kemaman	0	0	2	2	2	2
	KELANTAN						
40	Raja Perempuan Zainab II, Kota Bharu	21	21	0	0	13	13
41	Kuala Krai	6	6	0	0	3	3
42	Tanah Merah	6	5	0	0	2	2

NO	HOSPITAL	Facility					
		ICU Bed		HDU Bed		OR	
		Available	Functional	Available	Functional	Available	Functional
	SARAWAK						
43	Umum Sarawak	19	15	2	2	19	19
44	Bau	0	0	0	0	2	1
45	Lundu	0	0	0	0	2	1
46	Serian	0	0	0	0	2	1
47	Simunjan	0	0	0	0	2	1
48	Sri Aman	0	0	0	0	2	1
49	Betong	0	0	0	0	2	1
50	Saratok	0	0	0	0	2	1
51	Sarikei	6	3	0	0	4	3
52	Kanowit	0	0	0	0	2	1
53	Sibu	17	17	0	0	8	8
54	Daro	0	0	0	0	2	1
55	Mukah	0	0	0	0	2	1
56	Bintulu	6	5	0	0	3	3
57	Miri	8	8	0	0	3	3
58	Marudi	0	0	0	0	2	1
59	Limbang	0	0	0	0	2	1
60	Lawas	0	0	0	0	2	1
61	Kapit	0	0	2	2	3	2
	SABAH						
62	Queen Elizabeth	16	13	26	18	16	5
	Queen Elizabeth II (General)	10	10	9	9	6	6
	Queen Elizabeth II (Cardio)	8	7	4	4	2	2
63	Likas	18	9	4	2	9	8
64	Keningau	4	4	0	0	3	3
65	Lahad datu	4	4	3	3	3	3
66	Beaufort	0	0	0	0	2	2
67	Beluran	0	0	0	0	2	2
68	Kota Belud	0	0	0	0	1	1
69	Ranau	0	0	0	0	2	2
70	Sandakan	18	18	0	0	4	4
71	Semporna	0	0	0	0	1	1
72	Tawau	10	7	0	0	7	5
73	Sipitang	0	0	0	0	1	1
74	Tambunan	0	0	0	0	1	1
75	Kinabatangan	0	0	0	0	1	0
76	Kota Marudu	0	0	0	0	2	2
77	Kudat	0	0	0	0	2	2
78	Kunak	0	0	0	0	1	0
79	Pitas	0	0	0	0	1	1
80	Tenom	0	0	0	0	1	1
81	Papar	0	0	0	0	2	0
TOTAL		703	636	186	143	532	449

Table 25: Program Anestisiologi key performance indicators, 2015

No	Hospital	Department			General (Individual)			Cardiothoracic			Pain		Intensive care	
		% of major elective surgery patients who receive Acute Pain Service ($\geq 60\%$)	Ventilator care bundle (VCB) compliance rate ($\geq 90\%$)	% of elective surgical cancellations after pre-operative assessment in the Anaesthetic Clinic ($\leq 5\%$)	% of reintubation in OT and recovery room ($\leq 0.3\%$)	% of APS patients with pain score ≤ 4 24H after surgery ($\geq 75\%$)	% of accidental dural puncture ($< 3\%$)	% Adult post-elective cardiopulmonary patient on arrival to CICU have blood glucose level $\geq 10\text{mmol/L}$ ($< 5\%$)	% of carotid arterial puncture during central venous cannulation via internal Jugular Vein ($< 5\%$)	% of re-intubation in Cardiac Intensive Care Unit after open heart surgeries ($\leq 5\%$)	% of in-patient referred for chronic pain seen within 24 hours ($> 90\%$)	% of unplanned admission after day-case pain procedure ($< 1\%$)	% of readmission within 48 hours of ICU discharge ($< 3\%$)	% of unplanned extubation ($< 5\%$)
1	Kangar	72.27	100	0.28	0	99.74	2.65	NA	NA	NA	NA	NA	NA	NA
2	Alor Setar	82.46	100	0	0	91.34	0	100	-	-	-	0	0.07	0.06
3	Langkawi	72	100	0	0	99.3	0	NA	NA	NA	NA	NA	NA	NA
4	Sungai Petani	77.26	96	0.28	0.05	97.23	0.72						0.19	0.49
5	Kulim	66.25	97.14	0.24	0	88.13	2	-	-	-	100	0	1.63	0.45
6	Pulau Pinang	77	94.8	0.08	0.017	94	0.24	4.3	2.7	1	100	0	0.88	2.39
7	Seberang Jaya	97.2	100	1	0.49	97.2	0	-	-	-	-	-	0.2	0.3
8	Bukit Mertajam	64.2	-	-	0	95	0	-	-	-	-	-	-	-
9	Kepala Batas	94.5	100	0	0	98.2	0	-	-	-	-	-	0.38	1.67
10	Ipoh	71	96.4	0.4	0.08	99	0.5	NA	NA	NA	100	0	0.3	0.5
11	Seri Manjung	86.0%	100%	0.2%	0%	82%	0%	NA	NA	NA	NA	NA	NA	NA
12	Taiping	67.49	99.24	0	0.01	96.72	1.04	-	-	-	100	0	0.76	0.64
13	Teluk Intan	71	100	5	0	92	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14	Slim River	68.18	98.90	1.07	0.2	99.33	0							
15	T. A. Rahimah, Kelang	46.28	98.83	0.08	0.02	93.75	0.54	-	-	-	100	-	0.43	0.47
16	Ampang	82.9	96.4	1.27	0	85.4	1.64						0.15	2.43
17	Sungai Buloh	68	100	0.74	0.06	96.4	1.1	N/A	N/A	N/A	100	0	1.03	0.37
18	Selayang	85.10	91.69	0.55	0.01	95.67	0.83				100	0		
19	Serdang	67.34	100	0.84	0.01	95.47	0	8.6	0.52	1.71				
20	Kajang	99.08	100	0.145	0.04	97.68	0.6							

		Department			General (Individual)			Cardiothoracic			Pain		Intensive care	
No	Hospital	% of major elective surgery patients who receive Acute Pain Service (≥60%)	Ventilator care bundle (VCB) compliance rate (≥90%)	% of elective surgical cancellations after pre-operative assessment in the Anaesthetic Clinic (≤5%)	% of reintubation in OT and recovery room (≤0.3%)	% of APS patients with pain score <4 24H after surgery (≥75%)	% of accidental dural puncture (<3%)	% Adult post-elective cardiopulmonary patient on arrival to CICU have blood glucose level ≥ 10mmol/L (<5%)	% of carotid arterial puncture during central venous cannulation via internal Jugular Vein (<5%)	% of re-intubation in Cardiac Intensive Care Unit after open heart surgeries (≤5%)	% of in-patient referred for chronic pain seen within 24 hours (>90%)	% of unplanned admission after day-case pain procedure (<1%)	% of readmission within 48 hours of ICU discharge (<3%)	% of unplanned extubation (<5%)
21	Banting	-	100	0	0	97	9.5	-	-	-	-	-	0.42	0
22	Kuala Lumpur	83.90	95.95	0.98	0.10	94.68	0.52				100	0	1.34	0.73
23	Putrajaya	63.64	100	1.04	0.01	93.68	0.19							
24	Labuan	97	100		0	99	0							
25	Tuanku Jaafar, Seremban	80.46	100	0.52	0.05	84.99	0				100	0	0.61	2.29
26	Tuanku Ampuan Najihah, Kuala Pilah	72.4	100	2.2	0.07	89	0.9	NA	NA	NA	NA	NA	NA	o
27	Port Dickson	74.2	100	0	0	100	0							
28	Melaka	91.2	100	0.31	0.02	97.1	0	N/A	N/A	N/A	100	0	1.1	2.6
29	Sultanah Aminah, Johor Bahru	71.53	98.70	0.66	0.10	88.21	0.47	1.29	1.74	0.58	100	NA	0.17	0.39
30	Sultan Ismail, Johor Bahru	69.92	98.95	0.11	0.01	93.77	0.64	NA	NA	NA	100	0	0.64	2.04
31	Muar	61.74	100	2.10	0	99.5	0							
32	Batu Pahat	92.89	100	0.36	0	92.87	-	-	-	-	-	-	0	0
33	Segamat	74.90	100	0	0	95.94	0	NA	NA	NA	100	NA	0	0.42
34	Keluang	75.2	100	0.09	0.11	87.91	0	-	-	-	-	-	0.89	0
35	Tengku Ampuan Afzan, Kuantan	69.58	99.67	0.46	0.14	97	0.56				0.17			
36	Temerloh	84.91	97.33	1.24	0	97.07	0	-	-	-	-	-	0.57	0.3
37	Kuala Lipis	71	100	0	0	100	0	-	-	-	-	-	0	0
38	Raja Perempuan Zainab II, Kota Bharu	82.53	95.80	1.25	0.06	99.08	0.11	0.00	0.00	0.00	100	0.71	0.77	0.43
39	Kuala Krai	76.34	97.11	0	0	97.7	5.88	-	-	-	-	-	-	-
40	Tanah Merah	72.6		0	0.09	99.5	0							

No	Hospital	Department			General (Individual)			Cardiothoracic			Pain		Intensive care	
		% of major elective surgery patients who receive Acute Pain Service (≥60%)	Ventilator care bundle (VCB) compliance rate (≥90%)	% of elective surgical cancellations after pre-operative assessment in the Anaesthetic Clinic (≤5%)	% of reintubation in OT and recovery room (≤0.3%)	% of APS patients with pain score <4 24H after surgery (≥75%)	% of accidental dural puncture (<3%)	% Adult post-elective cardiopulmonary patient on arrival to CICU have blood glucose level ≥ 10mmol/L (<5%)	% of carotid arterial puncture during central venous cannulation via internal Jugular Vein (<5%)	% of re-intubation in Cardiac Intensive Care Unit after open heart surgeries (≤5%)	% of in-patient referred for chronic pain seen within 24 hours (>90%)	% of unplanned admission after day-case pain procedure (<1%)	% of readmission within 48 hours of ICU discharge (<3%)	% of unplanned extubation (<5%)
41	Sultanah Nur Zahirah, Kuala Terengganu	92.47	100	0.83	0.06	97.89	2.27	-	-	-	100	0.0	1.04	0.49
42	Kemaman	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA
43	Umum Sarawak, Kuching	73.31	99.72	0.14	0.02	85.82	0.14	1.33	0.74	0	100	0	0.17	0.17
44	Sibu	86.37	100	0.76	0	96.78	0	-	-	-	100	0	0.7	0.1
45	Sarikei	75	100	0	0	100	0	-	-	-	-	-	1	0
46	Bintulu	59.3	100	-	0.07	93.3	0	-	-	-	-	-	0.55	0
47	Miri	74.55	100	0.64	0	96.72	1.49	-	-	-	100	-	0.96	1.9
48	Queen Elizabeth	81.6	100	0.39	0.06	83.7	0	10.5	0	0.6	100	0	0.5	0.45
49	Tawau	100	100	1.94	0.02	95.8	0.0	NA	NA	NA	NA	NA	0.3	3.06
50	Likas	64.36	100	0.19	0	96.36	0	-	-	-	-	-	-	-
51	Sandakan	81.44	100	0.27	0.09	100	2.13	-	-	-	-	-	0.45	0.8
52	Keningau	67.3	100	2.6	0.1	94.1	0						0.5	0
53	Lahad Datu	65.6	100	4.7	0	76.7	0	NA	NA	NA	100	0	1.17	2.07