

Census Report 2013

Program Anestisiologi

Kementerian Kesihatan Malaysia

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CENSUS REPORT 2013

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 75 hospitals provided anaesthetic service in Ministry of Health; 49 with resident anaesthetists. (Table 1)
2. The total no. of anaesthetics administered was 358100, a reduce of 1.36% over the previous year. Of this number, 57.2% were for emergency surgery. (Table 2)
3. Hospitals with the most number of anaesthetics were: HKL (27020), H Ipoh (16520) and H Alor Setar (16330) (Table 2)
4. General anaesthesia was the most common technique (56.6%) followed by spinal anaesthesia (36.2%), epidural (0.51%), combined spinal and epidural (1.8%) and plexus block (0.7%) (Table 1)
5. The percentage of anaesthetics for emergency surgery reduce from 57.7% in 2012 to 57.2% in 2013; only in five hospitals with specialists there were more elective surgery than emergency surgery i.e. HKL, H Putrajaya, HPP, H Selayang and H Sib. This is a worrying trend as it reflects the relative shortage of OT time for elective surgery (Table 2 and 13)

6. There were 10608 anaesthetics administered for day care surgery; an increase of 7.83% from previous year.
7. 77.2% of all anaesthetics administered for LSCS were done as emergencies (Table 4) with the vast majority of them performed under spinal anaesthesia (88.3%); 8.47% of LSCS were done under general anaesthesia (Table 5)
8. A total of 98246 patients received post-operative pain management under the acute pain service; an increase of 7.06% over the previous year. 45.20% of patients had intra-theal morphine, 21.85% patient controlled analgesia and 12.58% epidural analgesia. (Table 7)
9. A total of 4654 parturients received epidural analgesia during labour; a reduce of 29.38% from the previous year. Hospitals with significant obstetric analgesia service were HKL, H Alor Setar, H Ipoh, H Putrajaya and H Kelang (Table 8)
10. The no. of patients who were seen at the anaesthetic clinics for preoperative assessment increased by 14.10% to 87522 with HKL, HSAJB and HMelaka having the most numbers (Table 9)
11. There were 47 general ICUs under Program Anestisiologi with a total admission of 46906, an increase of 38.36% from previous year. Hospitals with the highest admissions were: HKL, H Kelang and HSAJB. (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. 16 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 6402, an increasing of 3.06% over the previous year. Hospitals with high HDU workload (patient days) were H Ipoh, H Sungai Buloh and H Muar (Table 11)
14. There were 16 chronic pain clinics with a total of 10756 patient attendances, an increase of 20.12% from the previous year. The number of new cases seen were 1650-, an increase of 20.38%; similarly the no. of procedures done increased from 918 to 1951 (112.5% increase). H Selayang, H Ipoh, and Hpulau Pinang had the highest no. of attendances. (Table 12)

15. A total of 8488 patients were operated under the Saturday List programme in 25 hospitals, of whom 5359 were done under general anaesthesia. (Table 15)
16. All the output indicators continued to show upward trends in the last six years; when compared with 2013, the following increases were noted: no. of anaesthetics for day care surgery (7.83%), no. of patients under acute pain service (7.06%), no. of attendance at anaesthetic clinic (14.10%), no. of ICU admission (38.36%), no. of HDU admissions (3.06%) and no. of attendance at chronic pain clinic (20.12%). (Table 16)

CONCLUSION

Program Anestisiologi continued to expand in 2013 both in terms of scope and volume of work; the increase in manpower is reflected in increase in productivity.

Generally, key performance indicators were met. However, two major challenges remain:

- (1) shortage of operating time for elective surgery and
- (2) shortage of intensive care beds.

Concerted efforts must be taken to address these two issues.

Table 1 : Anaesthetics administered according to techniques in KKM hospitals, 2013

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	Combined Spinal & Epidural (CSE)	Combined General & Regional Anaesthesia (CGRA)	Plexus Blockade	Others	TOTAL
	PERLIS								
1	Kangar	2448	1697	41	194	114	76	5	4575
	KEDAH								
2	Alor Setar	10233	5317	33	222	441	74	10	16330
3	Langkawi	1066	807	4	6	52	11	98	2044
4	Sultan Abdul Halim, Sungai Petani	4796	5118	13	166	114	181	55	10443
5	Kulim	1930	1618	6	241	88	0	68	3951
	PULAU PINANG								
6	Pulau Pinang	9047	2418	1	7	161	9	109	11752
7	Seberang Jaya	1085	2409	0	2	0	20	2	3518
8	Bukit Mertajam	1831	1276	0	131	89	10	3	3340
9	Kepala Batas	484	78	0	71	28	5	0	666
	PERAK								
10	Ipoh	10955	4801	188	300	106	91	79	16520
11	Seri Manjung	1668	1918	4	88	43	39	40	3800
12	Teluk Intan	2509	2066	11	320	102	0	28	5036
13	Taiping	5414	4203	249	209	144	90	11	10320
14	Slim River	711	640	9	43	22	0	0	1425
	SELANGOR								
15	Tuan Ku Ampuan Rahimah, Kelang	7795	5267	62	247	96	60	3	13530
16	Ampang	2390	3465	42	148	230	238	138	6651
17	Selayang	6440	4242	117	607	674	150	113	12343
18	Sungai Buloh	6945	4013	29	142	140	19	181	11469
19	Kajang	2223	1976	13	70	48	33	28	4391
	WILAYAH PERSEKUTUAN								
20	Kuala Lumpur	19624	6236	283	223	243	87	324	27020
21	Putrajaya	3353	2511	159	259	1	19	2	6304
22	Labuan	504	410	0	0	0	0		914
	NEGERI SEMBILAN								
23	Tuan Ku Jaafar, Seremban	6035	3483	52	240	27	23	62	9922
24	Tuan Ku Ampuan Najihah, Kuala Pilah	1472	1388	12	117	115	66	13	3183
	MELAKA								
25	Melaka	8636	4867	9	66	111	51	31	13771
	JOHOR								
26	Sultanah Aminah, JB	9198	5587	40	166	149	19	956	16115
27	Sultan Ismail, JB	4710	3055	75	251	216	14	25	8346
28	Muar	2307	2093	16	251	60	101	0	4828
29	Batu Pahat	2187	2106	0	155	79	47	4	4578
30	Segamat	1323	1969	2	80	56	46	80	3556
31	Kluang	1313	1566	2	40	37	15	35	3008
	PAHANG								
32	Tengku Ampuan Afzan, Kuantan	6188	3778	62	245	229	78	52	10632
33	Temerloh	3407	2997	5	8	40	5	42	6504
	TERENGGANU								
34	Sultanah Nur Zahirah, Kuala Terengganu	6617	4146	27	212	302	131	11	11446
35	Kemaman	727	1059	2	42	24	19	7	1880
	KELANTAN								
36	Raja Perempuan Zainab II, Kota Bharu	6292	3801	29	292	484	27	83	11008
37	Kuala Krai	942	1263	4	33	0	18	33	2293

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	Combined Spinal & Epidural (CSE)	Combined General & Regional Anaesthesia (CGRA)	Plexus Blockade	Others	TOTAL
	SARAWAK								
38	Umum Sarawak	9369	4795	11	183	71	9	72	14510
39	Sibu	3104	2935	106	84	19	189	214	6651
40	Miri	2418	1611	2	75	77	24	14	4221
41	Bintulu	1328	1076	29	20	16	114	3	2586
42	Sarikei	436	353	0	12	21	60	7	889
43	Kapit	93	109	0	0	0	0	86	288
44	Serian	103	391	0	0	0	0	78	572
45	Bau	76	5	0	0	0	0	83	164
46	Lundu	22	79	0	0	0	0	160	261
47	Simunjan	3	23	0	0	0	0	1	27
48	Sri Aman	51	52	0	0	0	0	0	103
49	Betong	18	27	0	0	0	0	46	91
50	Saratok	44	0	0	0	0	0	16	60
51	Mukah	93	46	0	0	0	0	109	248
52	Daro	1	8	0	0	0	0	33	42
53	Kanowit	5	11	0	0	3	0	22	41
54	Lawas	93	39	0	0	1	0	101	234
55	Limbang	50	274	0	0	0	0	474	798
56	Marudi	17	86	0	0	0	0	14	117
	SABAH								
57	Queen Elizabeth	7266	1792	6	117	32	18	802	10033
58	Duchess Of Kent	2799	2334	9	20	17	68	12	5259
59	Likas	4680	3262	39	2	411	0	469	8863
60	Keningau	1064	832	2	13	37	5	1	1954
61	Tawau	2482	2675	31	51	125	48	383	5795
62	Kudat	134	32	0	0	0	0	239	405
63	Kota Marudu	101	26	0	0	0	0	139	266
64	Kota Belud	116	9	0	0	0	0	174	299
65	Mesra, Bukit Padang	565	0	0	0	0	0	0	565
66	Beaufort	148	172	0	0	0	0	75	395
67	Sipitang	10	0	0	0	0	0	31	41
68	Tenom	0	0	0	0	0	0	224	224
69	Tambunan	0	2	0	0	0	0	251	253
70	Ranau	134	26	0	0	0	0	1877	2037
71	Beluran	12	37	0	0	0	0	157	206
72	Pitas	37	1	0	0	0	0	18	56
73	Lahad datu	990	929	7	0	12	0	115	2053
74	Semporna	42	0	0	0	0	0	11	53
75	Kuala Penyu	0	1	0	0	0	0	27	28
	TOTAL	202709	129694	1843	6471	5707	2407	9269	358100

Table 2 : Anaesthetics and nature of surgery in KKM hospitals, 2013

No.	HOSPITAL	Elective Surgery	Emergency Surgery		TOTAL
	PERLIS			(%)	
1	Kangar	1995	2580	56.4%	4575
	KEDAH				
2	Alor Setar	7234	9096	55.7%	16330
3	Langkawi	537	1507	73.7%	2044
4	Sultan Abdul Halim, Sungai Petani	3480	6963	66.7%	10443
5	Kulim	1615	2336	59.1%	3951
	PULAU PINANG				
6	Pulau Pinang	6641	5111	43.5%	11752
7	Seberang Jaya	414	3104	88.2%	3518
8	Bukit Mertajam	1346	1994	59.7%	3340
9	Kepala Batas	1830	0	0.0%	1830
	PERAK				
10	Ipoh	6787	9733	58.9%	16520
11	Seri Manjung	1395	2405	63.3%	3800
12	Teluk Intan	1646	3390	67.3%	5036
13	Taiping	3386	6934	67.2%	10320
14	Slim River	585	842	59.0%	1427
	SELANGOR				
15	Tuanku Ampuan Rahimah, Kelang	6114	7416	54.8%	13530
16	Ampang	2737	3914	58.8%	6651
17	Selayang	6680	5663	45.9%	12343
18	Sungai Buloh	4568	6901	60.2%	11469
19	Kajang	1266	3125	71.2%	4391
	WILAYAH PERSEKUTUAN				
20	Kuala Lumpur	15010	12010	44.4%	27020
21	Putrajaya	3329	2975	47.2%	6304
22	Labuan	286	628	68.7%	914
	NEGERI SEMBILAN				
23	Tuanku Jaafar, Seremban	4456	5366	54.6%	9822
24	Tuanku Ampuan Najihah, Kuala Pilah	1177	2006	63.0%	3183
	MELAKA				
25	Melaka	5619	8152	59.2%	13771
	JOHOR				
26	Sultanah Aminah, JB	5568	10547	65.4%	16115
27	Sultan Ismail, JB	2889	5457	65.4%	8346
28	Muar	2390	2438	50.5%	4828
29	Batu Pahat	1791	2787	60.9%	4578
30	Segamat	1304	2256	63.4%	3560
31	Kluang	943	2065	68.7%	3008
	PAHANG				
32	Tengku Ampuan Afzan, Kuantan	4705	5927	55.7%	10632
33	Temerloh	2784	3720	57.2%	6504
	TERENGGANU				
34	Sultanah Nur Zahirah, Kuala Terengganu	4813	6633	58.0%	11446
35	Kemaman	668	1212	64.5%	1880
	KELANTAN				
36	Raja Perempuan Zainab II, Kota Bharu	4241	5712	57.4%	9953
37	Kuala Krai	687	1592	69.9%	2279

No.	HOSPITAL	Elective Surgery	Emergency Surgery		TOTAL
	SARAWAK				
38	Umum Sarawak	6703	7807	53.8%	14510
39	Sibu	3055	3596	54.1%	6651
40	Miri	1404	2817	66.7%	4221
41	Bintulu	919	1667	64.5%	2586
42	Sarikei	379	510	57.4%	889
43	Kapit	163	125	43.4%	288
44	Serian	280	292	51.0%	572
45	Bau	139	25	15.2%	164
46	Lundu	144	117	44.8%	261
47	Simunjan	13	14	51.9%	27
48	Sri Aman	56	47	45.6%	103
49	Betong	65	26	28.6%	91
50	Saratok	40	20	33.3%	60
51	Mukah	130	118	47.6%	248
52	Daro	38	4	9.5%	42
53	Kanowit	36	5	12.2%	41
54	Lawas	125	109	46.6%	234
55	Limbang	564	234	29.3%	798
56	Marudi	57	60	51.3%	117
	SABAH				
57	Queen Elizabeth	5272	4761	47.5%	10033
58	Duchess Of Kent	1861	3398	64.6%	5259
59	Likas	3618	5245	59.2%	8863
60	Keningau	723	1231	63.0%	1954
61	Tawau	1616	4179	72.1%	5795
62	Kudat	302	103	25.4%	405
63	Kota Marudu	121	145	54.5%	266
64	Kota Belud	165	134	44.8%	299
65	Mesra, Bukit Padang	565	0	0.0%	565
66	Beaufort	220	175	44.3%	395
67	Sipitang	3	38	92.7%	41
68	Tenom	0	224	100.0%	224
69	Tambunan	36	217	85.8%	253
70	Ranau	662	1375	67.5%	2037
71	Beluran	156	50	24.3%	206
72	Pitas	21	35	62.5%	56
73	Lahad datu	615	1438	70.0%	2053
74	Semporna	9	44	83.0%	53
75	Kuala Penyu	0	28	100.0%	28
TOTAL		153191	204910	57.2%	358073

Table 3 : Anaesthetics for Day Care Surgery and Day of Surgery Admissions in KKM hospitals, 2013

No.	HOSPITAL	Day Care Surgery	Day Of Surgery Admissions
	PERLIS		
1	Kangar	16	0
	KEDAH		
2	Alor Setar	1252	0
3	Sg Petani	216	0
4	Kulim	93	0
	PULAU PINANG		
5	Pulau Pinang	287	1041
	PERAK		
6	Ipoh	1844	912
7	Seri Manjung	151	12
8	Teluk Intan	67	4
9	Slim River	53	3
	SELANGOR		
10	Tuanku Ampuan Rahimah, Kelang	581	25
11	Ampang	189	0
12	Selayang	559	24
	WILAYAH PERSEKUTUAN		
13	Kuala Lumpur	231	3
14	Putrajaya	560	11
	NEGERI SEMBILAN		
15	Serenban	542	0
	MELAKA		
16	Melaka	393	18
	JOHOR		
17	Sultan Ismail, JB	37	5
	PAHANG		
18	Tengku Ampuan Afzan, Kuantan	535	0
19	Temerloh	172	6
	TERENGGANU		
20	Sultanah Nur Zahirah, Kuala Terengganu	659	16
	SARAWAK		
21	Umum Sarawak	57	0
22	Bau	32	0
	SABAH		
19	Ranau	1278	0
20	Tawau	221	0
21	Likas	552	22
22	Sipitang	31	10
	TOTAL	10608	2112

Table 4 : Anaesthetic for LSCS and nature of surgery in KKM hospitals, 2013

No.	HOSPITAL	Elective LSCS	Emergency LSCS	TOTAL
	PERLIS			
1	Kangar	264	678	942
	KEDAH			
2	Alor Setar	839	2298	3137
3	Langkawi	71	369	440
4	Sultan Abdul Halim,Sungai Petani	306	2974	3280
5	Kulim	349	841	1190
	PULAU PINANG			
6	Pulau Pinang	458	1025	1483
7	Seberang Jaya	398	1571	1969
8	Bukit Mertajam	3	0	3
	PERAK			
9	Ipoh	809	1982	2791
10	Seri Manjung	326	710	1036
11	Teluk Intan	234	1016	1250
12	Taiping	513	1546	2059
13	Slim River	99	301	400
	SELANGOR			
14	Tuanku Ampuan Rahimah, Kelang	809	2525	3334
15	Ampang	467	1409	1876
16	Selayang	556	2052	2608
17	Sungai Buloh	759	2128	2887
18	Kajang	156	1052	1208
	WILAYAH PERSEKUTUAN			
19	Kuala Lumpur	1072	3622	4694
20	Putrajaya	607	1346	1953
21	Labuan	78	221	299
	NEGERI SEMBILAN			
22	Tuanku Jaafar, Seremban	562	1600	2162
23	Tuanku Ampuan Najihah, Kuala Pilah	191	464	655
	MELAKA			
24	Melaka	784	2213	2997
	JOHOR			
25	Sultanah Aminah, JB	666	2926	3592
26	Sultan Ismail, JB	368	1530	1898
27	Muar	266	731	997
28	Batu Pahat	302	813	1115
29	Segamat	139	584	723
30	Kluang	187	574	761
	PAHANG			
31	Tengku Ampuan Afzan, Kuantan	565	1364	1929
32	Temerloh	393	1437	1830
	TERENGGANU			
33	Sultanah Nur Zahirah, Kuala Terengganu	558	1771	2329
34	Kemaman	138	398	536
	KELANTAN			
35	Raja Perempuan Zainab II, Kota Bharu	489	1878	2367
36	Kuala Krai	106	492	598

No.	HOSPITAL	Elective LSCS	Emergency LSCS	TOTAL
	SARAWAK			
37	Umum Sarawak	781	2148	2929
38	Sibu	182	1162	1344
39	Miri	205	536	741
40	Bintulu	84	550	634
41	Sarikei	1	53	54
42	Kapit	9	49	58
43	Serian	41	161	202
44	Bau	6	9	15
45	Lundu	0	25	25
46	Simunjan	0	7	7
47	Sri Aman	9	27	36
48	Betong	0	15	15
49	Saratok	0	12	12
50	Mukah	2	35	37
51	Daro	0	2	2
52	Kanowit	0	4	4
53	Lawas	6	43	49
54	Limbang	42	108	150
55	Marudi	6	26	32
	SABAH			
56	Duchess Of Kent	373	1469	1842
57	Likas	756	2852	3608
58	Keningau	176	327	503
59	Tawau	179	1735	1914
60	Kudat	4	50	54
61	Kota Marudu	7	43	50
62	Kota Belud	3	64	67
63	Beaufort	19	118	137
64	Sipitang	0	5	5
65	Tambunan	0	1	1
66	Ranau	9	103	112
67	Lahad Datu	143	575	718
68	Pitas	3	30	33
TOTAL		17930	60755	78685

Table 5 : Anaesthetics for LSCS and techniques of anaesthesia in KKM hospitals, 2013

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	CSE	Others *	TOTAL
	PERLIS						
1	Kangar	113	814	5	5	5	942
	KEDAH						
2	Alor Setar	211	2902	24	0	0	3137
3	Langkawi	24	367	1	0	7	399
4	Sultan Abdul Halim,Sungai Petani	161	3116	3	0	0	3280
5	Kulim	105	984	2	99	0	1190
	PULAU PINANG						
6	Pulau Pinang	97	1277	50	14	45	1483
7	Seberang Jaya	94	1874	0	1	0	1969
	PERAK						
8	Ipoh	186	2403	175	8	19	2791
9	Seri Manjung	34	1000	1	1	0	1036
10	Teluk Intan	81	986	2	117	64	1250
11	Taiping	71	1921	20	41	6	2059
12	Slim River	70	330	0	0	0	400
	SELANGOR						
13	TuanKu Ampuan Rahimah, Kelang	143	3115	50	26	0	3334
14	Ampang	80	1746	47	3	0	1876
15	Selayang	130	2129	127	222	0	2608
16	Sungai Buloh	187	2617	23	12	28	2867
17	Kajang	91	1097	13	1	7	1209
	WILAYAH PERSEKUTUAN						
18	Kuala Lumpur	509	3790	247	100	48	4694
19	Putrajaya	100	1590	130	131	2	1953
20	Labuan	76	223	0	0	0	299
	NEGERI SEMBILAN						
21	TuanKu Jaafar, Seremban	261	2024	18	14	9	2326
22	TuanKu Ampuan Najihah, Kuala Pilah	36	573	4	7	35	655
	MELAKA						
23	Melaka	331	2656	3	7	0	2997
	JOHOR						
24	Sultanah Aminah, JB	395	3181	13	3	0	3592
25	Sultan Ismail, JB	207	1674	9	6	2	1898
26	Muar	19	969	9	0	0	997
27	Batu Pahat	93	1022	0	0	0	1115
28	Segamat	20	703	0	0	0	723
29	Kluang	62	681	0	1	17	761
	PAHANG						
30	Tengku Ampuan Afzan, Kuantan	244	1683	51	0	74	2052
31	Temerloh	69	1759	2	3	0	1833
	TERENGGANU						
32	Sultanah Nur Zahirah, Kuala Terengganu	159	2100	10	5	55	2329
33	Kemaman	53	482	1	0	0	536
	KELANTAN						
34	Raja Perempuan Zainab II, Kota Bharu	225	2116	14	5	7	2367
35	Kuala Krai	33	565	0	0	0	598

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	CSE	Others *	TOTAL
	SARAWAK						
36	Umum Sarawak	375	2525	6	11	12	2929
37	Sibu	76	1268	0	0	0	1344
38	Miri	78	656	0	4	3	741
39	Bintulu	43	589	2	0	0	634
40	Sarikei	6	48	0	0	0	54
41	Kapit	17	41	0	0	0	58
42	Serian	0	202	0	0	0	202
43	Bau	6	9	0	0	0	15
44	Lundu	5	20	0	0	0	25
45	Simunjan	0	7	0	0	0	7
46	Sri Aman	13	23	0	0	0	36
47	Betong	2	13	0	0	0	15
48	Saratok	12	0	0	0	0	12
49	Mukah	13	24	0	0	0	37
50	Daro	0	2	0	0	0	2
51	Kanowit	1	3	0	0	0	4
52	Lawas	31	18	0	0	0	49
53	Limbang	0	150	0	0	0	150
54	Marudi	3	29	0	0	0	32
	SABAH						
55	Duchess Of Kent	200	1616	1	0	25	1842
56	Likas	389	3111	39	0	69	3608
57	Keningau	61	434	0	0	8	503
58	Tawau	157	1756	1	0	0	1914
59	Kudat	53	1	0	0	0	54
60	Kota Marudu	39	11	0	0	0	50
61	Kota Belud	60	6	0	0	1	67
62	Beaufort	38	99	0	0	0	137
63	Sipitang	5	0	0	0	0	5
64	Tambunan	0	1	0	0	0	1
65	Ranau	105	7	0	0	0	112
66	Lahad Datu	102	597	7	0	12	718
67	Pitas	33	0	0	0	0	33
TOTAL		6693	69735	1110	847	560	78945

Table 6 : No. Cases Under Regional Anaesthesia And Analgesia 2013

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 both			Done with ultrasound	Done with nerve stimulator	Done with both	Done with ultrasound	Done with nerve stimulator	Done with both	Paravertebral	Lumbar Plexus	TAP Blocks	Others	
	PERLIS																
1	Kangar	24	8	0	31	1	24	0	0	0	8	0	0	44	0	0	76
	KEDAH																
2	Alor Setar	70	21	0	91	0	35	6	0	35	12	0	0	0	3	0	91
3	Langkawi	0	0	0	0	0	3	3	0	1	2	0	0	0	0	6	9
4	Sultan Abdul Halim, Sungai Petani	0	0	228	228	0	0	0	131	0	0	97	0	0	0	0	228
	PULAU PINANG																
5	Pulau Pinang	50	0	0	0	18	0	0	0	28	0	0	0	0	4	0	50
6	Seberang Jaya	10	10	0	0	0	5	5	0	5	5	0	0	0	0	0	20
7	Bukit Mertajam	2	10	0	0	0	2	5	0	2	5	0	0	0	0	0	10
8	Kepala Batas	5	0	0	0	0	4	0	0	1	0	0	0	0	0	0	5
	PERAK																
9	Ipoh	83	7	12	91	11	71	3	5	12	2	9	0	0	0	0	102
10	Seri Manjung	22	17	0	39	0	22	5	0	0	12	0	0	0	0	0	39
11	Slim River	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
	SELANGOR																
10	Tuaniku Ampuan Rahimah, Kelang	30	26	0	56	189	26	20	0	4	6	0	0	0	129	15	389
11	Selayang	288	0	0	144	144	145	0	0	133	0	0	0	0	10		288
12	Kajang	31	8	0	32	7	31	1	0	2	4	0	0	0	0	0	39
	WILAYAH PERSEKUTUAN																
13	Putrajaya	17	10	0	5	14	12	8	0	5	2	0	0	0	0	0	19
	NEGERI SEMBILAN																
14	Tuaniku Jaafar, Seremban	0	0	23	23	0	0	0	15	0	0	8	0	0	0	0	23
15	Tuaniku Ampuan Najihah, Kuala Pilah	0	0	66	66	0	0	0	64	0	0	2	0	0	0	0	66
	MELAKA																
16	Melaka	151	0	0	69	82	56	0	0	80	0	0	0	0	3	12	151
	JOHOR																
17	Muar	131	131	0	101	105	87	87	0	44	44	0	0	0	27	48	206
	PAHANG																
18	Tengku Ampuan Afzan, Kuantan	50	32	23	50	50	37	12	13	11	21	10	0	0	2	25	130
19	Temerloh	5	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
	TERENGGANU																
20	Sultanah Nur Zahirah, Kuala Terengganu	119	57	0	67	76	88	25	0	31	32	0	0	0	28	7	530
21	Kemaman	0	20	0	20	20	0	17	0	0	3	0	0	0	0	0	20
	KELANTAN																
22	Raja Perempuan Zainab II, Kota Bharu	36	2	72	139	14	21	2	31	15	0	41	0	0	19	0	392
	SARAWAK																
23	Umum Sarawak	137	25	4	230	15	66	16	0	27	5	0	5	0	67	64	250
24	Sibu	57	152	2	211	0	57	126	2	0	26	0	0	0	0	0	211
25	Miri	15	16	0	6	25	2	12	0	13	4	0	0	0	0	0	31
26	Bintulu	96	4	14	104	10	75	2	2	11	2	12	0	0	10	0	114
27	Sarikei	0	44	0	4	33	0	35	0	0	9	0	0	0	0	33	77
	TOTAL	305	197	20	551	50	200	1323	4	51	37	12	5	0	77	64	3505

Table 7 : Acute pain service and techniques of pain control in KKM hospitals, 2013

No.	HOSPITAL	Patient Controlled Analgesia (IV)	Epidural Analgesia	Intra-thecal Opiod	Nerve / Plexus Infusion	S/C Morphine	Morphine Infusion	Others	TOTAL
	PERLIS								
1	Kangar	210	351	30	0	0	0	42	633
	KEDAH								
2	Alor Setar	828	656	642	106	0	39	1	2272
3	Langkawi	64	10	86	0	4	0	12	176
4	Sultan Abdul Halim,Sungai Petani	0	230	1902	0	0	457	76	2665
5	Kulim	45	3	265	0	0	0	7	320
	PULAU PINANG								
6	Pulau Pinang	1271	633	1177	57	39	31	4	3212
7	Seberang Jaya	232	13	537	16	37	30	10	875
8	Bukit Mertajam	122	215	186	0	23	0	2	548
9	Kepala Batas	44	95	22	24	15	0	4	204
	PERAK								
10	Ipoh	1041	330	2492	102	1	68	43	4077
11	Seri Manjung	224	123	252	0	2	16	0	617
12	Teluk Intan	297	223	435	0	0	33	16	1004
13	Taiping	194	478	2134	0	0	37	0	2843
14	Slim River	42	65	10	7	7	0	0	131
	SELANGOR								
15	Tuanku Ampuan Rahimah, Kelang	1150	432	2913	0	1	0	0	4496
16	Ampang	258	333	939	264	32	0	0	1826
17	Selayang	961	1280	2393	288	11	19	401	5353
18	Sungai Buloh	748	186	2111	16	301	0	3	3365
19	Kajang	111	102	709	42	54	8	8	1034
	WILAYAH PERSEKUTUAN								
20	Kuala Lumpur	2500	509	3355	11	115	0	198	6688
21	Putrajaya	461	186	1414	5	3	0	2520	4589
22	Labuan	0	0	200	0	90	0	0	290
	NEGERI SEMBILAN								
23	Tuanku Jaafar, Seremban	713	318	4	216	15	128	45	1439
24	Tuanku Ampuan Najihah, Kuala Pilah	107	157	342	66	19	0	16	707
	MELAKA								
25	Melaka	1177	100	2695	146	1582	130	29	5859

No.	HOSPITAL	Patient Controlled Analgesia (IV)	Epidural Analgesia	Intra- theal Opiod	Nerve / Plexus Infusion	S/C Morphine	Morphine Infusion	Others	TOTAL
	JOHOR								
26	Sultanah Aminah, JB	1177	382	3167	11	482	0	303	5522
27	Sultan Ismail, JB	1078	438	2192	34	206	0	468	4416
28	Muar	259	410	278	0	77	0	267	1291
29	Batu Pahat	258	198	858	2	8	0	2	1326
30	Segamat	114	136	97	0	59	0	46	452
31	Kluang	111	57	642	0	77	0	2	889
	PAHANG								
32	Tengku Ampuan Afzan, Kuantan	498	400	2137	130	250	41	0	3456
33	Temerloh	850	75	1459	2	1	1	24	2412
	TERENGGANU								
34	Sultanah Nur Zahirah, Kuala Terengganu	1053	390	2130	0	60	100	26	3759
35	Kemaman	41	56	489	19	49	11	1	666
	KELANTAN								
36	Raja Perempuan Zainab II, Kota Bharu	153	610	2099	14	307	1061	326	4570
37	Kuala Krai	26	83	576	16	36	203	0	940
	SARAWAK								
38	Umum Sarawak	1319	736	31	0	4	266	237	2593
39	Sibu	314	106	295	0	68	1	9	793
40	Miri	180	112	626	30	178	25	0	1151
41	Bintulu	56	49	52	0	57	42	0	256
42	Sarikei	35	11	42	0	2	0	1	91
	SABAH								
43	Queen Elizabeth	561	358	0	0	0	0	403	1322
44	Duchess Of Kent	379	88	0	0	0	0	450	917
45	Keningau	1	29	0	0	0	0	518	548
46	Likas	122	461	0	0	0	0	3508	4091
47	Tawau	90	147	0	0	0	0	1325	1562
TOTAL		21475	12360	44415	1624	4272	2747	11353	98246

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

* Others (e.g s/c morphine)

* Excludes patients not on APS follow up

Table 8 : Epidural analgesia for labour in KKM hospitals, 2013

No.	HOSPITAL	Epidural Analgesia For Labour
	PERLIS	
1	Kangar	5
	KEDAH	
2	Alor Setar	175
3	Langkawi	6
4	Sultan Abdul Halim,Sungai Petani	30
5	Kulim	5
	PULAU PINANG	
6	Pulau Pinang	185
	PERAK	
7	Ipoh	612
8	Seri Manjung	2
9	Teluk Intan	3
	SELANGOR	
10	Tuanku Ampuan Rahimah, Kelang	282
11	Ampang	372
12	Selayang	355
13	Sungai Buloh	172
14	Kajang	55
	WILAYAH PERSEKUTUAN	
15	Kuala Lumpur	695
16	Putrajaya	872
	NEGERI SEMBILAN	
17	Tuanku Jaafar, Seremban	50
	MELAKA	
18	Melaka	22
	JOHOR	
19	Sultanah Aminah, JB	65
20	Sultan Ismail, JB	40
21	Muar	87
22	Batu Pahat	8
23	Kluang	3
	PAHANG	
24	Tengku Ampuan Afzan, Kuantan	51
25	Temerloh	5
	TERENGGANU	
26	Sultanah Nur Zahirah, Kuala Terengganu	124
27	Kemaman	14
	KELANTAN	
28	Raja Perempuan Zainab II, Kota Bharu	153
29	Kuala Krai	12
	SARAWAK	
30	Umum Sarawak	71
31	Miri	2
	SABAH	
32	Likas	120
33	Keningau	1
	TOTAL	4654

Table 9 : No. of attendances at anaesthetic clinic in KKM hospitals, 2013

No.	HOSPITAL	No. Of Patient Seen In Clinic
	PERLIS	
1	Kangar	1188
	KEDAH	
2	Alor Setar	2316
3	Langkawi	2
4	Sultan Abdul Halim,Sungai Petani	2850
5	Kulim	213
	PULAU PINANG	
6	Pulau Pinang	4377
7	Seberang jaya	644
	PERAK	
8	Ipoh	5143
9	Seri Manjung	579
10	Teluk Intan	1360
11	Taiping	419
12	Slim River	320
	SELANGOR	
13	Tuanku Ampuan Rahimah, Kelang	3495
14	Ampang	2243
15	Selayang	3896
16	Sungai Buloh	1664
17	Kajang	435
	WILAYAH PERSEKUTUAN	
18	Kuala Lumpur	7979
19	Putrajaya	2019
	NEGERI SEMBILAN	
20	Tuanku Jaafar, Seremban	4139
21	Tuanku Ampuan Najihah, Kuala Pilah	474
	MELAKA	
22	Melaka	7636
	JOHOR	
23	Sultanah Aminah, JB	7738
24	Sultan Ismail, JB	5913
25	Muar	1168
26	Batu Pahat	3332
27	Kluang	706
	PAHANG	
28	Tengku Ampuan Afzan, Kuantan	3125
29	Temerloh	1623
	TERENGGANU	
30	Sultanah Nur Zahirah, Kuala Terengganu	2747
	KELANTAN	
31	Raja Perempuan Zainab II, Kota Bharu	4327
32	Kuala Krai	183
	SARAWAK	
33	Umum Sarawak	1260
34	Sibu	611
35	Miri	553
36	Sarikei	152
	SABAH	
37	Queen Elizabeth	1881
38	Keningau	281
39	Tawau	817
	Total	87522

Table 10 : Admissions, patient days and bed-occupancy rates in ICU KKM hospitals, 2013

No.	HOSPITAL	No. Of Admissions	Patients Days	Bed Occupancy Rate
	PERLIS			
1	Kangar	342	1611	78.1%
	KEDAH			
2	Alor Setar	715	3406	93.3%
3	Langkawi	206	1469	67.4%
4	Sultan Abdul Halim,Sungai Petani	550	3558	92.5%
5	Kulim	596	2454	95.4%
	PULAU PINANG			
6	Pulau Pinang	1216	7410	90.9%
7	Seberang Jaya	482	2342	80.2%
8	Bukit Mertajam	401	1925	106.8%
9	Kepala Batas	245	1214	83.2%
	PERAK			
10	Ipoh	1255	9161	104.0%
11	Seri Manjung	384	1512	85.5%
12	Teluk Intan	444	1557	105.2%
13	Taiping	11411	6016	84.7%
14	Slim River	333	1820	71.0%
	SELANGOR			
15	TuanKu Ampuan Rahimah, Kelang	2114	9597	105.9%
16	Ampang	583	3541	82.9%
17	Selayang	1581	7380	101.8%
18	Sungai Buloh	1190	6108	94.0%
19	Kajang	427	1683	77.1%
	WILAYAH PERSEKUTUAN			
20	Kuala Lumpur (GICU)	2006	10050	110.6%
	Kuala Lumpur (PICU)	484	4356	72.2%
21	Putrajaya	652	2471	71.2%
22	Labuan	181	754	41.2%
	NEGERI SEMBILAN			
23	TuanKu Jaafar, Seremban	484	2721	108.3%
24	TuanKu Ampuan Najihah, Kuala Pilah	773	3265	72.4%
	MELAKA			
25	Melaka	1757	7291	97.5%
	JOHOR			
26	Sultanah Aminah, JB	2018	11099	109.4%
27	Sultan Ismail, JB	997	5882	90.2%
28	Muar	689	1860	97.5%
29	Batu Pahat	432	2160	79.6%
30	Segamat	315	1253	89.7%
31	Kluang	277	2908	47.1%
	PAHANG			
32	Tengku Ampuan Afzan, Kuantan	673	1238	106.5%
33	Temerloh	877	4560	127.0%
	TERENGGANU			
34	Sultanah Nur Zahirah, Kuala Terengganu	1242	6582	104.6%
35	Kemaman	128	1958	50.9%
	KELANTAN			
36	Raja Perempuan Zainab II, Kota Bharu	1610	6574	179.5%
	SARAWAK			
37	Umum Sarawak	1060	4468	101.0%
38	Sibu	1084	5717	120.5%
39	Miri	493	2247	79.6%
40	Bintulu	323	1383	63.2%
41	Sarikei	116	578	74.9%
	SABAH			
42	Queen Elizabeth	1073	7540	95.9%
43	Duchess Of Kent	1040	5789	99.1%
44	Likas	641	2603	106.0%
45	Keningau	272	1131	78.0%
46	Tawau	470	1597	70.0%
47	Lahad datu	264	1215	101.2%
	TOTAL	46906	185014	92.4%

Table 11 : Admissions, patient days and bed-occupancy rates in HDU / PACU in KKM hospitals, 2013

No.	HOSPITAL	No. Of Admissions	Patients Days	Bed Occupancy Rate
	PERLIS			
1	Kangar	203	308	69.47%
	KEDAH			
2	Alor Setar	710	4507	88.19%
3	Sultan Abdul Halim,Sungai Petani	516	2889	80.04%
	PERAK			
4	Ipoh	902	5051	61.00%
	SELANGOR			
5	Tuanku Ampuan Rahimah, Kelang	360	1918	97.03%
6	Ampang	196	722	49.60%
7	Sungai Buloh	1155	4062	90.26%
	WILAYAH PERSEKUTUAN			
8	Kuala Lumpur	335	569	109.57%
	NEGERI SEMBILAN			
9	Tuanku Jaafar, Seremban	347	1409	95.60%
	Melaka			
10	Melaka	254	254	50.50%
	JOHOR			
11	Muar	724	1013	72.50%
12	Segamat	241	704	48.71%
	PAHANG			
13	Tengku Ampuan Afzan, Kuantan	343	1245	61.40%
	SARAWAK			
14	Umum Sarawak	116	380	16.90%
TOTAL		6402	25031	70.77%

Table 12 : Attendances, new cases and procedures at Chronic Pain Clinics in KKM hospitals, 2013

No.	HOSPITAL	Total No. Of Patients Seen In Clinic	No. Of New Cases	No. Of Procedures Done	Total No. Of Patients Seen In Ward
	KEDAH				
1	Alor Setar	75	18	37	12
	PULAU PINANG				
2	Pulau Pinang	1551	153	202	59
	PERAK				
3	Ipoh	1375	101	69	15
	SELANGOR				
4	Tuanku Ampuan Rahimah, Kelang	997	135	189	11
5	Selayang	1642	187	70	397
	WILAYAH PERSEKUTUAN				
6	Kuala Lumpur	754	123	560	71
	NEGERI SEMBILAN				
7	Tuanku Jaafar, Seremban	390	46	10	43
	MELAKA				
8	Melaka	1064	222	32	1293
	JOHOR				
9	Sultanah Aminah, JB	357	100	2	78
10	Sultan Ismail, JB	741	181	22	31
	PAHANG				
11	Tengku Ampuan Afzan, Kuantan	388	130	46	2
	TERENGGANU				
12	Sultanah Nur Zahirah, Kuala Terengganu	354	60	NA	130
	KELANTAN				
13	Raja Perempuan Zainab II, Kota Bharu	572	52	173	NA
	SARAWAK				
14	Umum Sarawak	208	75	31	NA
15	Miri	8	4	0	NA
	SABAH				
16	Queen Elizabeth	280	63	96	NA
	TOTAL	10756	1650	1539	2142

Table 13: No. of anaesthetics administered in KKM hospitals, 2009 – 2013

No.	HOSPITAL	2009	2010	2011	2012	2013
	PERLIS					
1	Kangar	4346	4259	4447	4675	4575
	KEDAH					
2	Alor Setar	12586	13705	14300	16360	16330
3	Langkawi	739	985	1203	1605	2044
4	Sultan Abdul Halim, Sungai Petani	8236	8350	9713	10241	10443
5	Kulim	3734	3895	4229	4306	3951
	PULAU PINANG					
6	Pulau Pinang	11754	12558	13044	13663	11752
7	Seberang Jaya	6601	6342	6758	5781	3518
8	Bukit Mertajam	2497	2343	1249	1846	3340
9	Kepala Batas	562	250	294	398	666
	PERAK					
10	Ipoh	15036	15356	16359	17072	16520
11	Seri Manjung	3702	3692	4026	3920	3800
12	Teluk Intan	4814	5171	5057	5129	5036
13	Taiping	7312	8790	9636	10084	10320
14	Slim River	453	600	860	1411	1425
	SELANGOR					
15	Tuanku Ampuan Rahimah, Kelang	11545	10842	11949	12068	13530
16	Ampang	4694	5799	5928	6224	6651
17	Serdang	7740	7890	9145	9709	NA
18	Selayang	9038	9886	10297	11615	12343
19	Sungai Buloh	7104	7240	8421	10408	11469
20	Kajang	3445	3882	4202	4246	4391
	WILAYAH PERSEKUTUAN					
21	Kuala Lumpur	24180	25732	24865	25947	27020
22	Putrajaya	5348	5546	6117	6384	6304
23	Labuan	505	542	570	759	914
	NEGERI SEMBILAN					
24	Tuanku Jaafar, Seremban	8198	9141	10872	10258	9922
25	Tuanku Ampuan Najihah, Kuala Pilah	2127	2253	2352	2663	3183
26	Port Dickson	NA	NA	79	284	NA
	MELAKA					
27	Melaka	11639	12427	13191	13361	13771
	JOHOR					
28	Sultanah Aminah, JB	13091	14658	15136	15665	16115
29	Sultan Ismail, JB	6490	6675	7040	8065	8346
30	Muar	4879	4569	2523	4933	4828
31	Batu Pahat	4688	4465	4717	4760	4578
32	Segamat	1374	2029	2442	3204	3556
33	Kluang	934	974	870	1573	3008
34	Kulai	731	643	623	565	NA
	PAHANG					
35	Tengku Ampuan Afzan, Kuantan	8425	9101	10126	10792	10632
36	Temerloh	6566	6070	6214	6431	6504
37	Kuala Lipis	502	785	1165	936	NA
	TERENGGANU					
38	Sultanah Nur Zahirah, Kuala Terengganu	11013	10879	10994	11228	11446
39	Kemaman	1652	1197	1600	1725	1880
	KELANTAN					
40	Raja Perempuan Zainab II, Kota Bharu	10521	9854	11007	11209	11008
41	Kuala Krai	2025	1746	2170	2156	2293
42	Tanah Merah	865	1296	1766	1678	NA
43	Pasir Mas	NA	NA	194	NA	NA
44	Pasir Puteh	NA	NA	225	NA	NA

No.	HOSPITAL	2009	2010	2011	2012	2013
	SARAWAK					
45	Umum Sarawak	10984	11351	12068	13410	14510
46	Sibu	6139	6087	6043	6401	6651
47	Miri	3937	4260	4474	4926	4221
48	Bintulu	2427	2357	2562	2631	2586
49	Sarikei	831	594	823	577	889
50	Kapit	594	428	413	434	288
51	Serian	651	579	451	416	572
52	Bau	212	125	130	157	164
53	Lundu	329	89	337	266	261
54	Simunjan	60	9	63	68	27
55	Sri Aman	183	145	159	260	103
56	Betong	326	308	237	111	91
57	Saratok	65	26	52	88	60
58	Mukah	174	187	246	209	248
59	Daro	76	39	73	39	42
60	Kanowit	93	63	25	69	41
61	Lawas	138	101	129	183	234
62	Limbang	428	531	642	665	798
63	Marudi	160	157	163	203	117
	SABAH					
64	Queen Elizabeth	5609	5701	6467	9352	10033
65	Duchess Of Kent	3827	3989	4444	5233	5259
66	Likas	6633	7764	8439	8583	8863
67	Keningau	2639	2632	2557	2040	1954
68	Tawau	4840	4350	4631	5288	5795
69	Kudat	374	427	351	339	405
70	Kota Marudu	360	324	277	231	266
71	Kota Belud	467	367	465	312	299
72	Mesra, Bukit Padang	976	437	456	385	565
73	Papar	254	143	149	72	NA
74	Beaufort	140	395	206	317	395
75	Sipitang	123	64	98	49	41
76	Tenom	437	508	479	436	224
77	Tambunan	328	283	232	216	253
78	Ranau	1525	1428	1870	1715	2037
79	Beluran	126	214	206	237	206
80	Pitas	NA	NA	NA	NA	56
81	Kinabatangan	21	35	94	63	NA
82	Lahad datu	1429	1410	1255	1609	2053
83	Kunak	0	24	11	20	NA
84	Semporna	18	65	92	88	53
85	Kuala Penyu	NA	NA	NA	4	28
TOTAL		309122	319628	341855	365051	360113

Table 14: No. of anaesthetics administered for emergency surgery in KKM hospitals, 2009 - 2013

No	HOSPITAL	2009	2010	2011	2012	2013
	PERLIS					
1	Kangar	45.20%	56.90%	57.39%	57.69%	56.4%
	KEDAH					
2	Alor Setar	50.00%	51.60%	55.89%	57.20%	55.7%
3	Langkawi	59.70%	69.80%	65.86%	70.28%	73.7%
4	Sultan Abdul Halim, Sungai Petani	67.10%	68.90%	69.00%	69.58%	66.7%
5	Kulim	53.10%	55.80%	62.80%	61.82%	59.1%
	PULAU PINANG					
6	Pulau Pinang	46.80%	48.90%	40.16%	49.03%	43.5%
7	Seberang Jaya	72.10%	71.70%	72.36%	75.45%	88.2%
8	Bukit Mertajam	1.00%	2.00%	1.28%	28.55%	59.7%
9	Kepala Batas	1.10%	0.00%	0.00%	0.00%	0.0%
	PERAK					
10	Ipoh	59.20%	59.60%	58.92%	59.61%	58.9%
11	Seri Manjung	62.90%	66.70%	66.57%	67.24%	63.3%
12	Teluk Intan	67.70%	68.20%	70.26%	70.54%	67.3%
13	Taiping	66.50%	64.60%	62.65%	59.37%	67.2%
14	Slim River	59.80%	57.50%	58.72%	55.92%	59.0%
	SELANGOR					
15	Tuanku Ampuan Rahimah, Kelang	53.30%	54.90%	54.05%	59.19%	54.8%
16	Ampang	61.40%	57.50%	56.49%	53.98%	58.8%
17	Serdang	52.60%	55.70%	50.51%	50.94%	NA
18	Selayang	45.30%	49.10%	48.85%	45.32%	45.9%
19	Sungai Buloh	69.00%	75.70%	67.39%	64.92%	60.2%
20	Kajang	73.20%	71.90%	70.69%	69.08%	71.2%
	WILAYAH PERSEKUTUAN					
21	Kuala Lumpur	42.90%	43.50%	44.67%	45.28%	44.4%
22	Putrajaya	49.60%	46.40%	46.07%	44.08%	47.2%
23	Labuan	78.20%	51.10%	51.58%	58.23%	68.7%
	NEGERI SEMBILAN					
24	Tuanku Jaafar, Seremban	56.10%	59.30%	55.21%	52.12%	54.6%
25	Tuanku Ampuan Najihah, Kuala Pilah	52.30%	57.50%	57.78%	57.30%	63.0%
26	Port Dickson	NA	NA	48.10%	72.89%	NA
	MELAKA					
27	Melaka	41.90%	59.90%	61.99%	63.48%	59.2%
	JOHOR					
28	Sultanah Aminah, JB	67.00%	66.90%	56.38%	65.70%	65.4%
29	Sultan Ismail, JB	57.00%	67.80%	65.91%	65.94%	65.4%
30	Muar	62.60%	57.30%	58.70%	53.54%	50.5%
31	Batu Pahat	64.50%	66.80%	67.95%	65.82%	60.9%
32	Segamat	78.50%	65.10%	65.11%	61.80%	63.4%
33	Kluang	56.30%	60.60%	69.77%	64.84%	68.7%
34	Kulai	0.00%	0.00%	0.00%	0.00%	NA
	PAHANG					
35	Tengku Ampuan Afzan, Kuantan	50.30%	53.40%	54.57%	53.47%	55.7%
36	Temerloh	65.50%	68.20%	67.04%	58.19%	57.2%
37	Kuala Lipis	61.80%	68.20%	63.78%	72.22%	NA
	TERENGGANU					
38	Sultanah Nur Zahirah, Kuala Terengganu	62.80%	64.70%	61.30%	59.52%	58.0%
39	Kemaman	68.30%	71.60%	65.19%	63.83%	64.5%

No	HOSPITAL	2009	2010	2011	2012	2013
	KELANTAN					
40	Raja Perempuan Zainab II, Kota Bharu	55.10%	61.50%	56.64%	59.36%	57.4%
41	Kuala Krai	69.70%	68.80%	65.14%	69.94%	69.9%
42	Tanah Merah	63.10%	70.70%	74.24%	74.61%	NA
43	Pasir Mas	NA	NA	0.00%	NA	NA
44	Pasir Puteh	NA	NA	0.00%	NA	NA
	SARAWAK					
45	Umum Sarawak	58.40%	59.20%	60.82%	57.38%	53.8%
46	Sibu	52.30%	47.40%	49.03%	53.65%	54.1%
47	Miri	65.30%	70.50%	72.02%	72.70%	66.7%
48	Bintulu	60.60%	60.60%	59.91%	59.29%	64.5%
49	Sarikei	64.60%	66.50%	47.27%	70.54%	57.4%
50	Kapit	43.90%	33.90%	39.95%	45.39%	43.4%
51	Serian	49.80%	48.70%	58.31%	45.91%	51.0%
52	Bau	49.10%	83.20%	62.31%	42.68%	15.2%
53	Lundu	28.30%	65.20%	28.19%	20.68%	44.8%
54	Simunjan	45.00%	22.20%	57.14%	57.35%	51.9%
55	Sri Aman	39.30%	36.60%	47.17%	51.92%	45.6%
56	Betong	31.60%	36.00%	52.74%	39.64%	28.6%
57	Saratok	41.50%	38.50%	51.92%	25.00%	33.3%
58	Mukah	47.70%	43.90%	34.55%	44.50%	47.6%
59	Daro	73.70%	46.20%	35.62%	51.28%	9.5%
60	Kanowit	65.60%	31.70%	80.00%	37.68%	12.2%
61	Lawas	57.20%	45.50%	48.84%	40.98%	46.6%
62	Limbang	28.30%	25.40%	33.18%	34.89%	29.3%
63	Marudi	49.40%	43.30%	41.72%	32.51%	51.3%
	SABAH					
64	Queen Elizabeth	55.40%	55.70%	53.58%	45.78%	47.5%
65	Duchess Of Kent	64.90%	64.50%	62.20%	62.83%	64.6%
66	Likas	59.80%	63.10%	62.70%	62.61%	59.2%
67	Keningau	57.00%	53.80%	56.71%	64.56%	63.0%
68	Tawau	58.60%	65.10%	67.57%	67.11%	72.1%
69	Kudat	41.70%	38.20%	27.64%	30.38%	25.4%
70	Kota Marudu	63.10%	52.20%	46.57%	48.05%	54.5%
71	Kota Belud	27.20%	46.90%	38.49%	42.95%	44.8%
72	Mesra, Bukit Padang	0.00%	0.00%	0.00%	0.00%	0.0%
73	Papar	20.50%	0.00%	0.00%	0.00%	NA
74	Beaufort	50.00%	35.40%	46.60%	51.42%	44.3%
75	Sipitang	62.60%	57.80%	54.08%	57.14%	92.7%
76	Tenom	18.10%	10.40%	9.81%	5.28%	100.0%
77	Tambunan	99.70%	80.90%	73.71%	78.24%	85.8%
78	Ranau	59.40%	59.40%	69.20%	64.66%	67.5%
79	Beluran	35.70%	37.90%	46.60%	35.44%	24.3%
80	Pitas	NA	NA	NA	NA	62.5%
81	Kinabatangan	23.80%	65.70%	37.23%	42.86%	NA
82	Lahad datu	69.50%	81.00%	67.81%	64.57%	70.0%
83	Kunak	0.00%	0.00%	0.00%	45.00%	NA
84	Semporna	44.40%	76.90%	90.22%	84.09%	83.0%
85	Kuala Penyu	NA	NA	NA	68.42%	100.0%
	AVERAGE	55.80%	58.00%	57.24%	57.70%	57.20%

Table 15: Saturdays Lists in KKM Hospitals, 2013

Bil	Hospital	No. of operations done under Saturday List			No. of Saturday elective list (as of Dec 31st 2012)
		General Anaesthesia	Local Anaesthesia	Total	
1	Kangar	40	6	46	46
2	Alor Setar	345	551	896	120
3	Sultan Abdul Halim,Sungai Petani	169	135	304	304
4	Pulau Pinang	516	224	740	223
5	Bukit Mertajam	68	93	161	161
6	Kepala Batas	0	392	392	392
7	Ipoh	6	0	6	243
8	Seri Manjung	13	4	17	17
9	Teluk Intan	10	11	21	21
10	Taiping	94	0	94	94
11	Ampang	212	33	245	245
12	Selayang	462	0	462	191
13	Kuala Lumpur	852	147	999	346
14	Putrajaya	221	57	278	63
15	Tuanku Jaafar, Seremban	165	226	391	71
16	Sultanah Aminah, JB	439	110	549	177
17	Sultan Ismail, JB	292	0	292	94
18	Muar	49	0	49	49
19	Batu Pahat	77	0	77	28
20	Kota Bharu	176	194	370	370
21	Kuala Terengganu	422	5	427	427
22	Kemaman	86	77	163	163
23	Umum Sarawak	314	452	766	190
24	Miri	149	106	255	68
25	Sibu	182	306	488	91
TOTAL		5359	3129	8488	4194

Table 16: Trends in output for Program Anestisiologi, KKM, 2004-2013

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
										(% increase from 2012)
No. of anaesthetics administered	229686	266660	277271	286324	301321	308391	319628	339844	363039	358100
										↓ 1.36%
No. of anaesthetics for day care surgery	NA	NA	4777	5190	5363	5315	5543	8367	9838	10608
										7.83%
No. of patients under acute pain service	18731	22459	31131	40490	52440	61583	65319	81801	91766	98246
										7.06%
No. of patients under obstetric analgesia service	NA	3161	3367	3137	3363	3952	4370	3949	3597	4654
										29.38%
No. of attendance at anaesthetic clinic	NA	NA	16266	20363	30795	48491	52880	61873	76686	87522
										14.10%
No. of ICU admissions	15115	13027	16234	20075	23928	24908	30089	32621	36542	46906
										38.36%
No. of HDU admissions	NA	NA	3226	3536	5662	7000	7474	5991	6212	6402
										3.06%
No. of attendance at chronic pain clinic	NA	NA	173	1785	3199	4622	6281	7368	8954	10756
										20.12%

Table 17: Anaesthetic specialists in KKM hospitals, 2013

NO	HOSPITAL	No. Of Specialist											
		Jusa A	Jusa B	Jusa C	U54 / U53	U52 / U51	U48 / U47	U44 / U43	Contract	Sessional	Paid Leave	Non-Paid Leave	TOTAL
	PERLIS												
1	Kangar			1	2		1						4
	KEDAH												
2	Alor Setar			2	9								11
3	Sultan Abdul Halim,Sg Petani			2	3				1				6
	PULAU PINANG												
4	Pulau Pinang	1	1	8	7	3							20
5	Seberang Jaya			1	2	1							4
	PERAK												
6	Ipoh		1	2	11								14
7	Seri Manjung			1	1								2
8	Teluk Intan			1		1							2
9	Taiping			2	5								7
	SELANGOR												
10	Ampang		1	3	6								10
11	Selayang		3	3	11								17
	WILAYAH PERSEKUTUAN												
12	Kuala Lumpur	1		6	33								40
13	Putrajaya		1	2	4								7
	NEGERI SEMBILAN												
14	Tuanku Jaafar, Seremban		1	1	5	1							8
	JOHOR												
15	Sultanah Aminah, JB	1	1	5	8	5							20
16	Sultan Ismail, JB			2	6								8
17	Muar				3	1							4
18	Batu Pahat			1	3								4
19	Segamat				1								1
20	Kluang			1		1							2
	TERENGGANU												
21	Sltanh Nur Zahirah, K. Trganu		1	2	10								13
22	Kemaman				2								2
	KELANTAN												
23	RJ Prmpn Zainab II, K. Bharu		1	7	6								14
24	Kuala Krai			1	1								2
	SARAWAK												
25	Umum Sarawak	1		4	3	5	2						15
26	Sibu			1	1	1							3
27	Miri				1	1	1						3
28	Bintulu				1	1							2
29	Sarikei						1						
TOTAL		4	11	59	145	21	5	0	1	0	0	0	245

Table 18: Anaesthetic medical officers and trainees in KKM hospitals, 2013

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		1	10		5	18							0
	KEDAH														
2	Alor Setar	2	0		16		4	22		1	2	5			8
3	Sultan Abdul Halim, Sg Petani	1	1		18		1	21							0
	PULAU PINANG														
4	Pulau Pinang		3	5	16			24		4	8	6			18
5	Seberang Jaya		1	2	16		1	20							0
6	Bukit Mertajam				5			5							0
7	Kepala Batas		1		1			2							0
	PERAK														
8	Ipoh		2	3	20		13	38				5			5
9	Seri Manjung			2	6			8							0
10	Teluk Intan	1		1	10			12							0
11	Taiping				21			21							0
	SELANGOR														
12	Ampang	1	1	4	17			23							0
13	Selayang			1	20			21			1	6			7
	WILAYAH PERSEKUTUAN														
14	Kuala Lumpur	2		3	22	4		31			13	48			61
15	Putrajaya		1	4	17			22							0
	NEGERI SEMBILAN														
16	Tuanku Jaafar, Seremban	1		1	20			22			1	2			3
	JOHOR														
17	Sultanah Aminah, JB			3	19	2		24		1	7	5			13
18	Sultan Ismail, JB			2	20	6		28							0
19	Muar	1		2	11		1	15							0
20	Batu Pahat				13			13							0
21	Segamat			3	4			7							0
22	Kluang		1	1	6			8							0
	TERENGGANU														
23	Sltanh Nur Zahirah, K. Trganu	1		2	27			30		3	6				9
24	Kemaman	1		1	3			5							0
	KELANTAN														
25	RJ Prmpn Zainab II, K. Bharu	2	1	1	26			30			14	5			19
26	Kuala Krai				3	2		5							0
	SARAWAK														
27	Umum Sarawak				13	21		34				5			5
28	Sibu				14			14							0
29	Miri				13			13							0
30	Bintulu				6		1	7							0
31	Sarikei				2										
TOTAL		15	12	42	415	35	26	543	0	9	52	87	0	0	148

Table 19: Anaesthetic /ICU nurses and assisted medical officers in KKM hospitals, 2013

NO	HOSPITAL	No. Of Allied Health Personnel																				TOTAL		
		MA					GA Nurse					ICU nurse												
		U41	U36	U32	U32 (JT)	U29	Contract	U41	U36	U32	U32 (JT)	U29	U19 (JM)	Contract	U42	U41	U36	U32	U32 (JT)	U29	U19 (JM)		Contract	
	PERLIS																							
1	Kangar	1		1		4				1	21				1				3	25			57	
	KEDAH																							
2	Alor Setar			2		2				3		33					1	5	5	37			88	
3	Sg Petani			2		4				1		31						17		58			113	
	PULAU PINANG																							
4	Pulau Pinang			3		5						36					1	3	2	96			146	
5	Seberang Jaya			2		1						14						2		34			53	
6	Bukit Mertajam			1								4						2		35			42	
7	Kepala Batas					1						3						1		17			22	
	PERAK																							
8	Ipoh	1		1		8				1		28			1	2	1	5	6	119			173	
9	Seri Manjung			1		3				4		7						6	20				41	
10	Teluk Intan			1		1				2		12						2		21			39	
11	Taiping			2		1				1		24			1			1	9	80			119	
	SELANGOR																							
12	Ampang		1	1		3						18				1	1	6		56			87	
13	Selayang		1	1	4															61			67	
	W. PERSEKUTUAN																							
14	Kuala Lumpur	1	1	6		12				2		62				1		4	1	155			245	
15	Putrajaya			1		4						18						2		56			81	
	NEGERI SEMBILAN																							
16	Seremban	1				6						26						6		32			71	
	JOHOR																							
17	Sultanah Aminah, JB	1	1	2		7				1		34					1	9	3	112			171	
18	Sultan Ismail, JB			2		3						25				1	1	4		68			104	
19	Muar			2		2				1		16						3		30			54	
20	Batu Pahat			1		2					2	8				1		2	10	30			56	
21	Segamat			1		4						4							2	15			26	
22	Kluang			1		1					2	8						2	4	31			49	
	TERENGGANU																							
23	Kuala Terengganu			2	1	7				1	7	33			1			4	9	84			149	
24	Kemaman			1		1				1		12						1		11			27	
	KELANTAN																							
25	Kota Bharu		1	2		7		1		6		35				1	1	4		102			160	
26	Kuala Krai			1		2						14				1		2		25			45	
	SARAWAK																							
27	Umum Sarawak	1	4	5		15						2				1		4		91			123	
28	Sibu		1	6		1											1	7		63			79	
29	Miri		1			1						4				1		2		32			41	
30	Bintulu			3		1												4		22			30	
31	Sarikei		1	1		1												1		13			17	
32	Kapit			2																			2	
33	Serian		1			1																	2	
34	Bau			1		1																	2	
35	Lundu			1																			1	
36	Simunjan			1																			1	
37	Sri Aman			1		1																	2	
38	Betong			1		1																	2	
39	Saratok			1																			1	
40	Mukah			2																			2	
41	Daro			1																			1	
42	Kanowit			1																			1	
43	Lawas			2																			2	
44	Limbang			2																			2	
45	Marudi			1																			1	
TOTAL		6	13	72	5	114	0	1	0	25	32	511	0	0	4	10	8	111	74	1611	0	0	2597	
		210						569						1818										

Table 20: Subspecialists under Program Anestisiologi in KKM hospitals, 2013

No.	Hospital	Cardiac Anaesthesia		Pediatric Anaesthesia		Neuro Anaesthesia		Obstetric Anaesthesia		Anaesthesia for Transplant Surgery		Intensive Care (Adult)		Pain Management	
		Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee	Subspecialist	Trainee
1	Alor Setar											1		1	
2	P. Pinang	4	3			2	1		1			2		2	
3	Ipoh			1								2		2	
4	Taiping											1			
5	Selayang			1				1				1		2	3
6	Sungai Buloh					1						1	2	1	
7	Kuala Lumpur			4		1	1	2				3	1	2	
8	Putrajaya					1									
9	Seremban			1											
10	Kota Bharu	1	1	1								1	1	1	1
11	Kuala Terengganu								1			2		1	
12	Sultanah Aminah, JB	3	2	1								2	1	1	
13	Sultan Ismail, JB													1	1
14	Kuching	3		1											
15	Putrajaya					1									
	Total	11	6	10	0	6	2	3	2	0	0	16	5	14	5

Total no. of subspecialists = 60

Total no. of subspecialty trainees = 20

Table 21: No. of ICU / HDU beds and OT in KKM hospitals 2013

NO	HOSPITAL	Facility					
		ICU Bed		HDU Bed		Operation Room	
		Available	Functional	Available	Functional	Available	Functional
	PERLIS						
1	Kangar	5	5	4	4	4	4
	KEDAH						
2	Alor Setar	10	10	14	14	14	13
3	Sultan Abdul Halim, Sungai Petani	20	16	0	0	9	8
	PULAU PINANG						
4	Pulau Pinang	26	22	0	0	17	16
5	Seberang Jaya	8	8	0	0	1	1
6	Bukit Mertajam	6	6	0	0	3	3
7	Kepala Batas	3	3	0	0	4	4
	PERAK						
8	Ipoh	24	24	20	20	18	18
9	Seri Manjung	8	8	0	0	3	3
10	Teluk Intan	4	4	0	0	6	5
11	Taiping	20	20	0	0	3	3
	SELANGOR						
12	Ampang	12	12	10	4	13	7
13	Selayang	22	22	0	0	22	17
	WILAYAH PERSEKUTUAN						
14	Kuala Lumpur	30	30	0	0	30	25
15	Putrajaya	11	11	0	0	9	9
	NEGERI SEMBILAN						
16	Tuanku Jaafar, Seremban	8	8	4	4	16	11
	JOHOR						
17	Sultanah Aminah, JB	29	29	0	0	13	13
18	Sultan Ismail, JB	32	17	0	0	18	11
19	Muar	8	8	12	4	4	3
20	Batu Pahat	8	7	0	0	6	3
21	Segamat	4	4	6	4	2	2
22	Kluang	6	4	0	0	6	3
	TERENGGANU						
23	Sultanah Nur Zahirah, Kuala Terengganu	20	18	0	0	16	13
24	Kemaman	2	2	0	0	2	2
	KELANTAN						
25	Raja Perempuan Zainab II, Kota Bharu	21	21	0	0	7	7
26	Kuala Krai	4	4	0	0	3	3
	SARAWAK						
27	Umum Sarawak	20	16	2	2	17	15
28	Bau	0	0	0	0	2	1
29	Lundu	0	0	0	0	2	2
30	Serian	0	0	0	0	2	2
31	Simunjan	0	0	0	0	2	1
32	Sri Aman	0	0	0	0	2	2
33	Betong	0	0	0	0	2	2
34	Saratok	0	0	0	0	2	2
35	Sarikei	4	2	0	0	4	3
36	Kanowit	0	0	0	0	2	2
37	Sibu	17	14	0	0	8	8
38	Daro	0	0	0	0	2	2
39	Mukah	0	0	0	0	2	2
40	Bintulu	6	6	0	0	3	3
41	Miri	8	8	0	0	2	2
42	Marudi	0	0	0	0	1	1
43	Limbang	0	0	0	0	2	2
44	Lawas	0	0	0	0	1	1
45	Kapit	0	0	0	0	3	3
	TOTAL	406	369	72	56	310	263

Table 22: Program Anestisiologi key performance indicators, 2013

No.	HOSPITAL	Percentage of patients awaiting Emergency Surgery more than 24 hrs due lack of OT time	Percentage of patients awaiting Emergency Surgery more than 24 hrs due lack of OT time	Percentage of patients undergoing elective surgery who are assessed in Anesthetic Clinic	Incidence of intubation's in the Recovery room	Ventilator Care Bundle (VCB) Compliance	Number of mortality/morbidity audits/ meetings conducted in the Department (in 6 months)	Percentage of post operative patients leaving the recovery room with pain score of > 4	Percentage of patients having a pain score of < 4 within the first 24 hrs after elective and emergency surgery	Percentage of elective surgical cancellations after preoperative assessment in the anaesthetic clinic
1	Kangar	0.47	13.84	59.55	0	100	12	0	85.15	4.46
2	Alor Setar	4.4	14	33.8	0.03	100	100	0.05	96.4	0.01
3	Sungai Petani	NA	NA	NA	NA	NA	NA	NA	NA	NA
4	Kulim	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	Pulau Pinang	0.9	22.71	63.31	0	93.33	16	0	88.65	0.81
6	Seberang Jaya	0.7	31.43	156	0	100	100	0	98.08	1.9
7	Bukit Mertajam	1.16	17.4	NA	0.09	0	100	0	93	NA
8	Kepala Batas	NA	30.63	NA	0	100	16	0	100	NA
9	Ipoh	0.1	24.7	76	0.1	97.8	100	0	97	1.2
10	Seri Manjung	0	16.24	41.5	0	100	100	2.05	76.66	1.9
11	Taiping	0.75	27.65	21.85	0.03	97.63	100	0.04	96.74	0.27
12	Teluk Intan	0	19.54	76	0	100	100	0	92.13	0.08
13	Slim River	NA	NA	NA	NA	NA	NA	NA	NA	NA
14	Tuanku Ampuan Rahimah, Kelang	NA	NA	NA	NA	NA	NA	NA	NA	NA
15	Ampang	0	27.48	81.95	0.03	94.4	13	0.03	94.1	1.16
16	Sungai Buloh	0.76	42.29	58.46	0.02	96.11	11	0	96.54	1.16
17	Selayang	NA	NA	NA	NA	NA	NA	NA	NA	NA
18	Serdang	NA	NA	NA	NA	NA	NA	NA	NA	NA
19	Kajang	NA	NA	NA	NA	NA	NA	NA	NA	NA
20	Kuala Lumpur	0.13	27.32	53.16	0.03	96.21	216.67	0	84	4.21
21	Putrajaya	0.99	30.88	41.99	0	100	100	0	6.45	NA
22	Labuan	NA	NA	NA	NA	NA	NA	NA	NA	NA
23	Tuanku Jaafar, Seremban	0	11.11	70.12	0.02	100	6	0	80.54	2.77
24	Tuanku Ampuan Najihah, Kuala Pilah	NA	NA	NA	NA	NA	NA	NA	NA	NA
25	Port Dickson	NA	NA	NA	NA	NA	NA	NA	NA	NA
26	Melaka	NA	NA	NA	NA	NA	NA	NA	NA	NA
27	Sultanah Aminah, Johor Bahru	0	34.26	99.17	0	99.83	33	0	95.5	6.62
28	Sultan Ismail, Johor Bahru	0	48.5	78.68	0	99.65	NA	NA	NA	NA
29	Muar	0	26.9	47.63	0.01	99.12	17	0	95.38	4.6
30	Batu Pahat	2.98	28.2	66.11	0	99.5	100	NA	NA	NA
31	Segamat	0.38	12.7	NA	0	100	12	NA	NA	NA
32	Keluang	0	30.85	78.18	0	100	100	NA	NA	NA
33	Tengku Ampuan Afzan, Kuantan	NA	NA	NA	NA	NA	NA	NA	NA	NA
34	Temerloh	NA	NA	NA	NA	NA	NA	NA	NA	NA
35	Kuala Lipis	NA	NA	NA	NA	NA	NA	NA	NA	NA
36	Raja Perempuan Zainab II, Kota Bharu	0.02	41.86	38.54	0.01	92.35	29	0.01	98.43	0.72
37	Tanah Merah	NA	NA	NA	NA	NA	NA	NA	NA	NA
38	Sultanah Nur Zahirah, Kuala Terengganu	0	30.7	57	0.026	100	24	0.0262	97.5	0.58
39	Kemaman	0	0.54	NA	0.001	1	1.23	0.005	0.99	NA
40	Umum Sarawak, Kuching	0.97	15.67	18.74	0.03	96.29	NA	NA	77.05	0.31
41	Sibu	0.05	81.73	27.02	0	97.2	NA	NA	93.57	1.45
42	Sarikei	0	10.24	40.11	0	0	NA	NA	100	0
43	Bintulu	0	10	0	0	95.6	NA	NA	100	0
44	Miri	0.07	27.3	39.4	0.02	100	NA	NA	92.8	0.36
45	Queen Elizabeth	NA	NA	NA	NA	NA	NA	NA	NA	NA
46	Tawau	0.31	35.14	50.56	0.02	100	NA	0	93.27	1.11
47	Likas	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Standard		≤ 1%	≥ 10%	≥ 30%	≤ 0.3%	≥ 80%	6 times in 6 months	≤ 10 %	≥ 75 %	≤ 10 %