

Census Report 2011

Program Anestesiologi & Rawatan
Rapi

Kementerian Kesihatan Malaysia

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CENSUS REPORT 2011

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Program Anesthesiologi & Rawatan Rapi is responsible for the provision of three major services:

- (1) perioperative anaesthetic service in the operating theatre and in non-OT locations
- (2) care of the critically ill in the intensive care units/PACU 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 339,844, an increase of 6.7% 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 (24,907), H Ipoh (16,359) and HSAJB (15,136) (Table 2)
4. General anaesthesia was the most common technique (57.1%) followed by spinal anaesthesia (35.7%), epidural (0.6%), combined spinal and epidural (1.6%) and plexus block (0.9%) (Table 1)
5. The percentage of anaesthetics for emergency surgery decreased from 58.1% in 2010 to 57.2% in 2011; 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 8,367 anaesthetics administered for day care surgery; 5.7% of anaesthetics for elective surgery. A total of 2,329 anaesthetics were administered as day of surgery admissions, a reduction of 12.0% from the previous year. (Table 3)
7. 79% of all anaesthetics administered for LSCS were done as emergencies (Table 4) with the vast majority of them performed under spinal anaesthesia (86.8%); 10.4% of LSCS were done under general anaesthesia (Table 5)
8. A total of 81,801 patients received post-operative pain management under the acute pain service; an increase of 16% over the previous year. Forty two % of patients had intra-thecal morphine, 25% patient controlled analgesia and 14% epidural analgesia. (Table 6)
9. A total of 3,949 parturients received epidural analgesia during labour; a reduction of 2.7% from the previous year. Hospitals with significant obstetric analgesia service were HKL, H Alor Setar, H Ipoh, H Putrajaya and HTAR Klang (Table 7)
10. The no. of patients who were seen at the anaesthetic clinics for preoperative assessment increased by 17% to 61,873 with HSAJB, H Melaka and HKL continuing to have the most numbers (Table 8)
11. There were 47 general ICUs under Program Anestesiologi with a total admission of 32,621, an increase of 8.3% from previous year. Hospitals with the highest admissions were: HKL, H Melaka, HSAJB and HTAR Klang (Table 9)
12. Across the board, high bed occupancy rates (BOR) were recorded in ICU reflecting a severe shortage of ICU beds in MOH hospitals. Fourteen ICUs had BOR of >100%. The recommended BOR for ICU is 75% (Table 9)
13. The total no. of patients admitted to the high dependency units were 5,991, a decrease of 19.8% over the previous year. Hospitals with high HDU workload (patient days) were H Ipoh, H Kuantan and H Sungai Buloh (Table 10). This is attributable to the increase in ICU admissions.

14. There were 15 chronic pain clinics with a total of 7,368 patient attendances, an increase of 17.3% from the previous year. The number of new cases seen were 1,119, an increase of 25%; similarly the no. of procedures done increased from 590 to 918(55.6% increase). A total of 404 in-patient referrals were also seen. H Ipoh, H Selayang and HTAR Klang had the highest no. of attendances. (Table 11)
15. A total of 8,652 patients were operated under the Saturday List programme in 34 hospitals, of whom 6,330 were done under general anaesthesia. (Table 14)
16. All the output indicators continued to show upward trends in the last six years; when compared with 2010, the following increases were noted: no. of anaesthetics administered (6.3%), no. of anaesthetics for day care surgery (51%), no. of patients under acute pain service (25.2%), no. of attendance at anaesthetic clinic (17%), no. of ICU admission (8.4%), and no. of attendance at chronic pain clinic (17.3%). (Table 15)
17. As of 31st December 2011, there were 295 anaesthetists, 599 medical officers and 156 trainees in the Ministry of Health hospitals (Table 16, 17)
18. There were 287 assistant medical officers, 704 anaesthetic nurses and 2,142 ICU nurses and 23 nurses in pain service and anaesthetic clinic giving a total nursing and allied health workforce of 3,156 (Table 18)
19. As of December 2011, there were 62 subspecialists (21% of total workforce) and 27 specialist trainees under Program Anestisiologi & Rawatan Rapi. There were 12 cardiac anaesthetists, 11 paediatric anaesthetists, 5 neuroanaesthetists, 6 obstetric anaesthetists, 17 intensivists and 11 pain specialists (Table 19)
20. There were 558 ICU beds of which 502 were functional (90%); this was an increase of 16 functional beds from the previous year. There were 104 functional HDU beds from a total of 166 (63%). (Table 20)
21. There were 379 functional operating theatres, an increase of 15 over the previous year. (Table 20)

22. Forty three hospitals submitted their mean KPI results. Most of the KPIs were within the national standards, however, H Serdang, HSAJB, H Umum Sarawak and H Selayang were outliers for waiting time for emergency surgery (Table 21)

CONCLUSION

Program Anestesiologi & Rawatan Rapi continued to expand in 2011 both in terms of scope and volume of work; the increase in manpower is reflected in increased 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, 2011

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	Combined Spinal & Epidural (CSE)	Combined General & Regional Anaesthesia (CGRA)	Plexus Blockade	Others	TOTAL
	PERLIS								
1	TuanKu Fauziah,Kangar	2,368	1,555	18	179	88	101	138	4,447
	KEDAH								
2	Sultanah Bahiyah,Alor Setar	8,417	5,208	53	194	312	43	73	14,300
3	Langkawi	621	411	32	22	22	11	84	1,203
4	Sultan Abdul Halim,Sungai Petani	4,819	4,606	24	129	73	62	0	9,713
5	Kulim	2,165	1,455	63	217	150	107	72	4,229
	PULAU PINANG								
6	Pulau Pinang	9,090	3,545	23	34	155	19	178	13,044
7	Seberang Jaya	2,782	3,306	89	120	9	70	382	6,758
8	Bukit Mertajam	624	520	0	44	56	3	2	1,249
9	Kepala Batas	163	110	1	18	2	0	0	294
	PERAK								
10	Raja Permaisuri Bainun,Ipoh	11,156	4,433	222	195	208	37	108	16,359
11	Seri Manjung	1,847	2,025	2	54	50	30	18	4,026
12	Teluk Intan	2,098	2,503	49	262	137	4	4	5,057
13	Taiping	5,317	3,908	163	121	24	41	62	9,636
14	Slim River	449	376	7	0	18	0	10	860
	SELANGOR								
15	Tengku Ampuan Rahimah, Kelang	6,818	4,676	98	240	79	35	3	11,949
16	Ampang	3,129	2,574	66	85	27	47	0	5,928
17	Serdang	5,425	3,236	41	152	105	148	38	9,145
18	Selayang	5,590	3,601	68	355	394	143	146	10,297
19	Sungai Buloh	4,674	3,651	31	26	21	15	3	8,421
20	Kajang	1,733	2,087	0	126	75	101	80	4,202
	WILAYAH PERSEKUTUAN								
21	Kuala Lumpur	17,649	5,916	279	180	369	154	318	24,865
22	Putrajaya	3,358	2,335	93	289	6	0	36	6,117
23	Labuan	375	195	0	0	0	0	0	570
	NEGERI SEMBILAN								
24	TuanKu Jaafar, Seremban	6,337	3,863	25	402	175	49	21	10,872
25	TuanKu Ampuan Najihah, Kuala Pilah	1,070	986	19	105	107	63	2	2,352
26	Port Dickson	25	51	0	2	0	1	0	79
	MELAKA								
27	Melaka	7,793	4,595	217	45	161	370	10	13,191
	JOHOR								
28	Sultanah Aminah, JB	10,251	4,184	48	313	194	16	130	15,136
29	Sultan Ismail, JB	4,171	2,498	35	147	105	9	75	7,040
30	Muar	2,278	0	0	87	53	105	0	2,523
31	Batu Pahat	2,202	2,200	0	116	91	108	0	4,717
32	Segamat	934	1,365	9	24	27	35	48	2,442
33	Kluang	234	558	1	4	10	62	1	870
34	Kulai	301	294	7	0	16	0	5	623
	PAHANG								
35	Tengku Ampuan Afzan, Kuantan	6,111	3,583	136	136	103	50	7	10,126
36	Temerloh	3,194	2,988	6	7	11	3	5	6,214
37	Kuala Lipis	411	623	0	1	3	0	127	1,165
	TERENGGANU								
38	Sultanah Nur Zahirah, Kuala Terengganu	6,149	4,054	34	211	401	144	1	10,994
39	Kemaman	724	811	1	15	25	0	24	1,600
	KELANTAN								
40	Raja Perempuan Zainab II, Kota Bharu	6,480	3,788	23	182	494	11	29	11,007
41	Kuala Krai	839	1,265	3	18	30	15		2,170
42	Tanah Merah	586	1,057	16	52	23	25	7	1,766
43	Pasir Mas	72	122	0	0	0	0	0	194
44	Pasir Puteh	61	79	0	0	85	0	0	225

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	Combined Spinal & Epidural (CSE)	Combined General & Regional Anaesthesia (CGRA)	Plexus Blockade	Others	TOTAL
	SARAWAK								
45	Umum Sarawak, Kuching	7,333	4,221	24	204	140	24	122	12,068
46	Sibu	3,090	2,279	12	77	50	379	156	6,043
47	Miri	2,310	1,855	11	132	127	18	21	4,474
48	Bintulu	1,213	1,197	4	17	40	77	14	2,562
49	Sarikei	391	145	0	3	0	10	274	823
50	Kapit	93	227	0	0	0	0	93	413
51	Serian	131	267	0	0	0	0	53	451
52	Bau	123	7	0	0	0	0	0	130
53	Lundu	66	95	0	0	0	0	176	337
54	Simunjan	28	34	0	0	0	0	1	63
55	Sri Aman	83	76	0	0	0	0	0	159
56	Betong	49	127	0	0	0	0	61	237
57	Saratok	48	3	0	0	0	0	1	52
58	Mukah	71	58	0	0	0	0	117	246
59	Daro	16	23	0	0	0	0	34	73
60	Kanowit	11	12	0	0	0	0	2	25
61	Lawas	101	10	0	0	0	0	18	129
62	Limbang	87	221	0	0	0	0	334	642
63	Marudi	36	102	0	0	0	0	25	163
	SABAH								
64	Queen Elizabeth, Kota Kinabalu	4,755	1,296	11	59	57	40	249	6,467
65	Duchess Of Kent, Sandakan	2,499	1,789	33	6	18	68	31	4,444
66	Wanita dan Kanak-kanak Sabah, Likas	5,173	2,735	69	5	340	0	117	8,439
67	Keningau	1,480	557	8	2	28	7	475	2,557
68	Tawau	2,118	2,042	33	19	83	46	290	4,631
69	Kudat	159	11	0	0	0	0	181	351
70	Kota Marudu	109	2	0	0	0	0	166	277
71	Kota Belud	76	13	0	0	41	0	335	465
72	Mesra, Bukit Padang	456	0	0	0	0	0	0	456
73	Papar	0	0	0	0	0	0	149	149
74	Beaufort	138	32	0	0	0	0	36	206
75	Sipitang	30	0	0	0	0	0	68	98
76	Tenom	11	57	0	0	1	0	410	479
77	Tambunan	3	4	0	0	0	0	225	232
78	Ranau	222	44	0	0	0	0	1,604	1,870
79	Beluran	20	64	0	0	0	0	122	206
80	Pitas	40		0	0	0	0	54	94
81	Lahad datu	653	521	0	0	17	3	61	1,255
82	Kunak	11	0	0	0	0	0	0	11
83	Semporna	20	0	0	0	0	0	72	92
	TOTAL	194,143	121,322	2,207	5,433	5,436	2,909	8,394	339,844

Table 2 : Anaesthetics and nature of surgery in KKM hospitals, 2011

No.	HOSPITAL	Elective Surgery	Emergency Surgery		TOTAL
	PERLIS			(%)	
1	Kangar	1,895	2,552	57.4%	4,447
	KEDAH				
2	Alor Setar	6,308	7,992	55.9%	14,300
3	Langkawi	509	982	65.9%	1,491
4	Sultan Abdul Halim, Sungai Petani	3,011	6,702	69.0%	9,713
5	Kulim	1,573	2,656	62.8%	4,229
	PULAU PINANG				
6	Pulau Pinang	7,806	5,238	40.2%	13,044
7	Seberang Jaya	1,868	4,890	72.4%	6,758
8	Bukit Mertajam	1,233	16	1.3%	1,249
9	Kepala Batas	294	0	0.0%	294
	PERAK				
10	Ipoh	6,720	9,639	58.9%	16,359
11	Seri Manjung	1,346	2,680	66.6%	4,026
12	Teluk Intan	1,504	3,553	70.3%	5,057
13	Taiping	3,599	6,037	62.7%	9,636
14	Slim River	355	505	58.7%	860
	SELANGOR				
15	Tengku Ampuan Rahimah, Kelang	5,490	6,459	54.1%	11,949
16	Ampang	2,579	3,349	56.5%	5,928
17	Serdang	4,526	4,619	50.5%	9,145
18	Selayang	5,267	5,030	48.8%	10,297
19	Sungai Buloh	2,746	5,675	67.4%	8,421
20	Kajang	1,229	2,964	70.7%	4,193
	WILAYAH PERSEKUTUAN				
21	Kuala Lumpur	13,781	11,126	44.7%	24,907
22	Putrajaya	3,299	2,818	46.1%	6,117
23	Labuan	276	294	51.6%	570
	NEGERI SEMBILAN				
24	Tuanku Jaafar, Seremban	4,870	6,002	55.2%	10,872
25	Tuanku Ampuan Najihah, Kuala Pilah	993	1,359	57.8%	2,352
26	Port Dickson	41	38	48.1%	79
	MELAKA				
27	Melaka	5,014	8,177	62.0%	13,191
	JOHOR				
28	Sultanah Aminah, JB	6,603	8,533	56.4%	15,136
29	Sultan Ismail, JB	2,400	4,640	65.9%	7,040
30	Muar	2,074	2,948	58.7%	5,022
31	Batu Pahat	1,512	3,205	67.9%	4,717
32	Segamat	852	1,590	65.1%	2,442
33	Kluang	263	607	69.8%	870
34	Kulai	623	0	0.0%	623
	PAHANG				
35	Tengku Ampuan Afzan, Kuantan	4,600	5,526	54.6%	10,126
36	Temerloh	2,048	4,166	67.0%	6,214
37	Kuala Lipis	422	743	63.8%	1,165
	TERENGGANU				
38	Sultanah Nur Zahirah, Kuala Terengganu	4,255	6,739	61.3%	10,994
39	Kemaman	557	1043	65.2%	1600
	KELANTAN				
40	Raja Perempuan Zainab II, Kota Bharu	4,228	5,524	56.6%	9,752
41	Kuala Krai	952	1,779	65.1%	2,731
42	Tanah Merah	455	1,311	74.2%	1,766
43	Pasir Mas	194	0	0.0%	194
44	Pasir Putih	225	0	0.0%	225

No.	HOSPITAL	Elective Surgery	Emergency Surgery		TOTAL
	SARAWAK				
45	Umum Sarawak	4,728	7,340	60.8%	12,068
46	Sibu	3,080	2,963	49.0%	6,043
47	Miri	1,252	3,222	72.0%	4,474
48	Bintulu	1,027	1,535	59.9%	2,562
49	Sarikei	434	389	47.3%	823
50	Kapit	248	165	40.0%	413
51	Serian	188	263	58.3%	451
52	Bau	49	81	62.3%	130
53	Lundu	242	95	28.2%	337
54	Simunjan	27	36	57.1%	63
55	Sri Aman	84	75	47.2%	159
56	Betong	112	125	52.7%	237
57	Saratok	25	27	51.9%	52
58	Mukah	161	85	34.6%	246
59	Daro	47	26	35.6%	73
60	Kanowit	5	20	80.0%	25
61	Lawas	66	63	48.8%	129
62	Limbang	429	213	33.2%	642
63	Marudi	95	68	41.7%	163
	SABAH				
64	Queen Elizabeth	3,002	3,465	53.6%	6,467
65	Duchess Of Kent	1,680	2,764	62.2%	4,444
66	Likas	3,148	5,291	62.7%	8,439
67	Keningau	1,107	1,450	56.7%	2,557
68	Tawau	1,502	3,129	67.6%	4,631
69	Kudat	254	97	27.6%	351
70	Kota Marudu	148	129	46.6%	277
71	Kota Belud	286	179	38.5%	465
72	Mesra, Bukit Padang	456	0	0.0%	456
73	Papar	149	0	0.0%	149
74	Beaufort	110	96	46.6%	206
75	Sipitang	45	53	54.1%	98
76	Tenom	432	47	9.8%	479
77	Tambunan	61	171	73.7%	232
78	Ranau	576	1,294	69.2%	1,870
79	Beluran	110	96	46.6%	206
80	Pitas	59	35	37.2%	94
81	Lahad datu	404	851	67.8%	1,255
82	Kunak	11	0	0.0%	11
83	Semporna	9	83	90.2%	92
TOTAL		146,232	195,727	57.2%	341,970

Table 3 : Anaesthetics for Day Care Surgery and Day of Surgery Admissions in KKM hospitals, 2011

No.	HOSPITAL	Day Care Surgery	Day Of Surgery Admissions
	PERLIS		
1	Kangar	28	0
	KEDAH		
2	Alor Setar	1,182	587
	PULAU PINANG		
3	Pulau Pinang	222	844
4	Seberang Jaya	249	49
	PERAK		
5	Ipoh	1,424	463
6	Seri Manjung	209	20
7	Slim River	99	0
	SELANGOR		
8	Tengku Ampuan Rahimah, Kelang	530	0
9	Ampang	124	7
10	Serdang	679	0
11	Sungai Buloh	12	0
	WILAYAH PERSEKUTUAN		
12	Kuala Lumpur	459	295
13	Putrajaya	1,252	19
	NEGERI SEMBILAN		
14	Port Dickson	3	2
	MELAKA		
15	Melaka	269	13
	PAHANG		
16	Tengku Ampuan Afzan, Kuantan	334	0
17	Temerloh	37	0
	TERENGGANU		
18	Sultanah Nur Zahirah, Kuala Terengganu	560	11
	SABAH		
19	Ranau	260	0
20	Tawau	128	0
21	Likas	297	19
22	Beaufort	10	0
	TOTAL	8,367	2,329

Table 4 : Anaesthetic for LSCS and nature of surgery in KKM hospitals, 2011

No.	HOSPITAL	Elective LSCS	Emergency LSCS	TOTAL
	PERLIS			
1	Kangar	225	777	1,002
	KEDAH			
2	Alor Setar	889	2,452	3,341
3	Langkawi	75	140	215
4	Sultan Abdul Halim, Sungai Petani	325	2,531	2,856
5	Kulim	286	805	1,091
	PULAU PINANG			
6	Pulau Pinang	366	1,184	1550
7	Seberang Jaya	466	1,632	2,098
8	Bukit Mertajam	39	0	39
	PERAK			
9	Ipoh	703	2,180	2,883
10	Seri Manjung	257	857	1,114
11	Teluk Intan	155	1,282	1,437
12	Taiping	460	1,691	2,151
13	Slim River	79	240	319
	SELANGOR			
14	Tengku Ampuan Rahimah, Kelang	724	2,286	3,010
15	Ampang	471	1,111	1,582
16	Serdang	451	1,459	1,910
17	Selayang	572	1,851	2,423
18	Sungai Buloh	580	2,083	2,663
19	Kajang	146	946	1,092
	WILAYAH PERSEKUTUAN			
20	Kuala Lumpur	1,122	3,133	4,255
21	Putrajaya	616	1,390	2,006
22	Labuan	54	165	219
	NEGERI SEMBILAN			
23	Tuanku Jaafar, Seremban	306	1,550	1,856
24	Tuanku Ampuan Najihah, Kuala Pilah	161	445	606
25	Port Dickson	20	22	42
	MELAKA			
26	Melaka	718	1,906	2,624
	JOHOR			
27	Sultanah Aminah, JB	731	2,717	3,448
28	Sultan Ismail, JB	264	1,188	1,452
29	Muar	197	789	986
30	Batu Pahat	252	880	1132
31	Segamat	108	513	621
32	Kluang	78	337	415
	PAHANG			
33	Tengku Ampuan Afzan, Kuantan	542	1,685	2,227
34	Temerloh	410	1,664	2,074
35	Kuala Lipis	34	199	233
	TERENGGANU			
36	Sultanah Nur Zahirah, Kuala Terengganu	631	1,963	2,594
37	Kemaman	124	324	448
	KELANTAN			
38	Raja Perempuan Zainab II, Kota Bharu	547	1,890	2,437
39	Kuala Krai	93	607	700
40	Tanah Merah	87	559	646

No.	HOSPITAL	Elective LSCS	Emergency LSCS	TOTAL
	SARAWAK			
41	Umum Sarawak	495	2,237	2,732
42	Sibu	161	856	1,017
43	Miri	54	1,069	1,123
44	Bintulu	75	494	569
45	Sarikei	6	74	80
46	Kapit	17	91	108
47	Serian	5	93	98
48	Bau	3	27	30
49	Lundu	0	41	41
50	Simunjan	3	17	20
51	Sri Aman	11	46	57
52	Betong	7	53	60
53	Saratok	0	2	2
54	Mukah	0	25	25
55	Daro	0	14	14
56	Kanowit	0	9	9
57	Lawas	19	30	49
58	Limbang	43	89	132
59	Marudi	3	19	22
	SABAH			
60	Duchess Of Kent	216	1,011	1,227
61	Likas	574	2,755	3,329
62	Keningau	107	303	410
63	Tawau	209	1,216	1,425
64	Kudat	9	39	48
65	Kota Marudu	11	68	79
66	Kota Belud	12	43	55
67	Beaufort	10	67	77
68	Sipitang	1	15	16
69	Tenom	7	35	42
70	Ranau	14	139	153
71	Lahad Datu	94	0	94
	TOTAL	16,530	60,410	76,940

Table 5 : Anaesthetics for LSCS and techniques of anaesthesia in KKM hospitals, 2011

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	CSE	Others *	TOTAL
	PERLIS						
1	Kangar	128	874	0	0	0	1,002
	KEDAH						
2	Alor Setar	441	2,985	15	0	0	3,441
3	Langkawi	16	162	11	38	5	232
4	Sultan Abdul Halim,Sungai Petani	201	2,650	1	4	0	2,856
5	Kulim	294	699	1	97	0	1,091
	PULAU PINANG						
6	Pulau Pinang	136	1,362	19	4	29	1,550
7	Seberang Jaya	107	1,980	2	9	0	2,098
8	Bukit Mertajam	2	35	0	0	2	39
	PERAK						
9	Ipoh	279	2,375	189	5	25	2,873
10	Seri Manjung	51	1,063	0	0	0	1,114
11	Teluk Intan	55	1,285	0	57	40	1,437
12	Taiping	61	2,015	13	61	1	2,151
13	Slim River	59	260	0	0	0	319
	SELANGOR						
14	TuanKu Ampuan Rahimah, Kelang	114	2,800	90	6	0	3,010
15	Ampang	125	1,455	1	1	0	1,582
16	Serdang	119	1,752	28	11	0	1,910
17	Selayang	149	2,176	63	90	2	2,480
18	Sungai Buloh	168	2,470	5	2	18	2,663
19	Kajang	54	1,035	1	1	1	1,092
	WILAYAH PERSEKUTUAN						
20	Kuala Lumpur	530	3,384	203	57	81	4,255
21	Putrajaya	131	1,644	77	154	0	2,006
22	Labuan	60	159	0	0	0	219
	NEGERI SEMBILAN						
23	TuanKu Jaafar, Seremban	160	1,628	19	8	41	1,856
24	TuanKu Ampuan Najihah, Kuala Pilah	57	501	11	37	0	606
25	Port Dickson	1	39	0	2	0	42
	MELAKA						
26	Melaka	409	2,177	15	23	0	2,624
	JOHOR						
27	Sultanah Aminah, JB	414	2,898	102	17	17	3,448
28	Sultan Ismail, JB	145	1,285	22	0	0	1,452
29	Muar	42	944				986
30	Batu Pahat	124	958	0	0	0	1,082
31	Segamat	12	609	0	0	0	621
32	Kluang	49	434	0	1	17	501
	PAHANG						
33	Tengku Ampuan Afzan, Kuantan	381	1,827	19			2,227
34	Temerloh	228	1,840		6		2,074
35	Kuala Lipis	3	230				233
	TERENGGANU						
36	Sultanah Nur Zahirah, Kuala Terengganu	222	2,288	7	19	58	2,594
37	Kemaman	54	392		2		448
	KELANTAN						
38	Raja Perempuan Zainab II, Kota Bharu	270	2,143	3	7	1	2,424
39	Kuala Krai	56	643		1		700
40	Tanah Merah	40	605	1	0	0	646

No.	HOSPITAL	General Anaesthesia	Spinal Anaesthesia	Epidural Anaesthesia	CSE	Others *	TOTAL
	SARAWAK						
41	Umum Sarawak	318	2,381	4	3	26	2,732
42	Sibu	121	896				1,017
43	Miri	125	998				1,123
44	Bintulu	49	517	3			569
45	Sarikei	18	62				80
46	Kapit	7	101				108
47	Serian	2	96				98
48	Bau	25	5				30
49	Lundu	8	33				41
50	Simunjan	10	10				20
51	Sri Aman	21	36				57
52	Betong	7	53				60
53	Saratok	2	0				2
54	Mukah	5	20				25
55	Daro	3	11				14
56	Kanowit	2	7				9
57	Lawas	47	2				49
58	Limbang	2	130				132
59	Marudi	1	21				22
	SABAH						
60	Duchess Of Kent	129	1,063	7		28	1,227
61	Likas	585	2,675	69			3,329
62	Keningau	72	328	2		8	410
63	Tawau	92	1,326	1	4	2	1,425
64	Kudat	48					48
65	Kota Marudu	78	1				79
66	Kota Belud	47	8				55
67	Beaufort	64	13				77
68	Sipitang	16					16
69	Tenom	8	34				42
70	Ranau	122	31				153
71	Lahad Datu	84	398			11	493
72	Pitas	24					24
	TOTAL	8,089	67,317	1,004	727	413	77,550

Table 6 : Acute pain service and techniques of pain control in KKM hospitals, 2011

No.	HOSPITAL	Patient Controlled Analgesia (IV)	Epidural Analgesia	Intra-thecal Opiod	Nerve / Plexus Infusion	S/C Morphine	Morphine Infusion	Others	TOTAL
	PERLIS								
1	Kangar	129	253	0	0	0	0	0	382
	KEDAH								
2	Alor Setar	652	779	374	0	0	0	12	1817
3	Langkawi	93	156	0	0	0	0	84	333
4	Sultan Abdul Halim,Sungai Petani	444	233	0	0	0	0	222	899
5	Kulim	35	217	461	2	0	0	1	716
	PULAU PINANG								
6	Pulau Pinang	1,019	424	124	26	5	0	3	1,601
7	Seberang Jaya	457	262	910	187	47	0	149	2,012
8	Bukit Mertajam	42	90	146	0	3	0	12	293
9	Kepala Batas	10	20	36	0	3	0	0	69
	PERAK								
10	Ipoh	863	377	2,562	40	2	0	101	3,945
11	Seri Manjung	204	92	160	0	0	0	0	456
12	Teluk Intan	234	256	0	0	0	0	59	549
13	Taiping	158	432	0	0	0	0	2,254	2,844
14	Slim River	35	24	0	0	4	0	0	63
	SELANGOR								
15	Tengku Ampuan Rahimah, Kelang	994	335	2,493	0	6	0	12	3,840
16	Ampang	288	273	782	0	68	0	35	1,446
17	Serdang	272	309	226	31	185	0	10	1,033
18	Selayang	1,012	792	2,176	190	6	0	2	4,178
19	Sungai Buloh	411	116	2,163	1	215	0	0	2,906
20	Kajang	65	124	0	2	6	0	682	879
	WILAYAH PERSEKUTUAN								
21	Kuala Lumpur	2,258	628	3,085	23	59	0	98	6,151
22	Putrajaya	829	443	0	0	0	0	18	1,290
	NEGERI SEMBILAN								
23	Tuanku Jaafar, Seremban	620	451	0	0	6	0	0	1077
24	Tuanku Ampuan Najihah, Kuala Pilah	89	145	0	0	0	0	4	238
	MELAKA								
25	Melaka	1,046	76	2,122	272	1,523	0	192	5,231
	JOHOR								
26	Sultanah Aminah, JB	1,134	556	2731	12	731	0	247	5,411
27	Sultan Ismail, JB	702	285	1617	16	147	0	249	3,016
28	Muar	98	159	154	60	284	0	4	759
29	Batu Pahat	131	177	937	0	26	0		1,271
30	Kluang	0	3					343	346

No.	HOSPITAL	Patient Controlled Analgesia (IV)	Epidural Analgesia	Intra- theal Opiod	Nerve / Plexus Infusion	S/C Morphine	Morphine Infusion	Others	TOTAL
	PAHANG								
31	Tengku Ampuan Afzan, Kuantan	515	194	1,909	29	263	0	59	2,969
32	Temerloh	682	62	1,808	0	6	0	49	2,607
33	Kuala Lipis		4	230	0	0	0	8	242
	TERENGGANU								
34	Sultanah Nur Zahirah, Kuala Terengganu	808	468	2,116	0	110	0	36	3,538
35	Kemaman	52	38	341	0	52	0	17	500
	KELANTAN								
36	Raja Perempuan Zainab II, Kota Bharu	173	425	2,175	0	312	1,106	124	4,315
37	Kuala Krai	28	51	649	46	64	155	10	1,003
38	Tanah Merah	23	70	602	0	78	0	0	773
	SARAWAK								
39	Umum Sarawak	991	688	1	0	14	0	36	1,730
40	Sibu	238	169	0	0	116	0	40	563
41	Miri	198	268	998	18	126	0	28	1,636

42	Bintulu	1,217	37	435	77	8	0	12	1,786
	SABAH								
43	Queen Elizabeth	476	187	0	0	0	0	635	1,298
44	Duchess Of Kent	216	36	0	0	0	0	27	279
45	Keningau	148	8	0	0	0	0	114	270
46	Likas	81	409	0	0	0	0	1,413	1,903
47	Tawau	94	134	0	0	0	0	1,110	1,338
TOTAL		20,264	11,735	34,523	1,032	4,475	1,261	8,511	81,801

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

* Others (e.g. s/c morphine)

* Excludes patients not on APS follow up

Table 7 : Epidural analgesia for labour in KKM hospitals, 2011

No.	HOSPITAL	Epidural Analgesia For Labour
	KEDAH	
1	Kangar	5
	KEDAH	
2	Alor Setar	374
3	Langkawi	48
	Sultan Abdul Halim,Sungai Petani	2
4	Kulim	2
	PULAU PINANG	
5	Pulau Pinang	97
6	Seberang Jaya	18
	PERAK	
7	Ipoh	623
8	Seri Manjung	2
	SELANGOR	
10	Tengku Ampuan Rahimah, Kelang	398
11	Ampang	87
12	Serdang	32
13	Selayang	218
14	Sungai Buloh	59
15	Kajang	10
	WILAYAH PERSEKUTUAN	
16	Kuala Lumpur	601
17	Putrajaya	401
	NEGERI SEMBILAN	
18	Tuanku Jaafar, Seremban	93
	MELAKA	
19	Melaka	124
	JOHOR	
20	Sultanah Aminah, JB	278
21	Sultan Ismail, JB	65
22	Muar	1
	PAHANG	
23	Tengku Ampuan Afzan, Kuantan	80
24	Temerloh	1
	TERENGGANU	
25	Sultanah Nur Zahirah, Kuala Terengganu	94
26	Kemaman	2
	KELANTAN	
27	Raja Perempuan Zainab II, Kota Bharu	17
28	Kuala Krai	3
	SARAWAK	
29	Umum Sarawak	21
30	Sibu	0
31	Miri	11
32	Bintulu	3
	SABAH	
33	Likas	177
34	Keningau	2
	TOTAL	3,949

Table 8 : No. of attendances at anaesthetic clinic in KKM hospitals, 2011

No.	HOSPITAL	No. of Patient Seen In Clinic
	PERLIS	
1	Kangar	201
	KEDAH	
2	Alor Setar	1,769
	Langkawi	6
3	Sultan Abdul Halim,Sungai Petani	2,780
4	Kulim	28
	PULAU PINANG	
5	Pulau Pinang	3,178
6	Seberang jaya	735
	PERAK	
7	Ipoh	3,546
8	Seri Manjung	590
9	Teluk Intan	1,045
10	Taiping	295
11	Slim River	273
	SELANGOR	
12	Tengku Ampuan Rahimah, Kelang	2,012
13	Ampang	2,116
	Serdang	57
14	Selayang	3,135
15	Sungai Buloh	288
16	Kajang	396
	WILAYAH PERSEKUTUAN	
17	Kuala Lumpur	6,288
	NEGERI SEMBILAN	
18	Tuanku Jaafar, Seremban	3,568
19	Tuanku Ampuan Najihah, Kuala Pilah	189
20	Port Dickson	41
	MELAKA	
21	Melaka	5,645
	JOHOR	
22	Sultanah Aminah, JB	6,344
23	Sultan Ismail, JB	4,581
24	Muar	429
25	Batu Pahat	2,884
	PAHANG	
26	Tengku Ampuan Afzan, Kuantan	2,143
27	Temerloh	815
28	Kuala Lipis	18
	TERENGGANU	
29	Sultanah Nur Zahirah, Kuala Terengganu	2,431
	KELANTAN	
30	Raja Perempuan Zainab II, Kota Bharu	2,139
31	Kuala Krai	141
32	Tanah Merah	260
	SARAWAK	
33	Umum Sarawak	434
34	Sibu	0
35	Miri	639
36	Bintulu	3
	SABAH	
37	Queen Elizabeth	632
38	Duchess Of Kent	64
39	Keningau	362
40	Tawau	962
	Total	61,873

Table 9 : Admissions, patient days and bed-occupancy rates in ICU KKM hospitals, 2011

No.	HOSPITAL	No. Of Admissions	Patients Days	Bed Occupancy Rate
	PERLIS			
1	Kangar	323	969	63.3%
	KEDAH			
2	Alor Setar	687	3,115	87.0%
3	Langkawi	189	2,289	60.9%
4	Sultan Abdul Halim, Sungai Petani	518	3,108	84.6%
5	Kulim	536	2,507	98.9%
	PULAU PINANG			
6	Pulau Pinang	1389	7457	75.9%
7	Seberang Jaya	617	2611	89.6%
8	Bukit Mertajam	397	1521	98.0%
9	Kepala Batas	225	1097	75.1%
	PERAK			
10	Ipoh	1,190	7,140	107.0%
11	Seri Manjung	392	1,568	82.4%
12	Teluk Intan	321	1,571	101.3%
13	Taiping	962	6,801	103.2%
14	Slim River	353	1,599	68.0%
	SELANGOR			
15	Tengku Ampuan Rahimah, Kelang	1,966	4,006	87.8%
16	Ampang	669	3,736	85.5%
17	Serdang	703	7,733	88.2%
18	Selayang	1,263	6,078	111.4%
19	Sungai Buloh	1,250	7,101	108.1%
20	Kajang	375	1,500	78.9%
	WILAYAH PERSEKUTUAN			
21	Kuala Lumpur (GICU)	1,989	9,766	107.5%
	Kuala Lumpur (PICU)	581	4,067	79.0%
22	Putrajaya	570	2,280	78.2%
23	Labuan	101	341	18.8%
	NEGERI SEMBILAN			
24	Tuanku Jaafar, Seremban	580	2809	118.4%
25	Tuanku Ampuan Najihah, Kuala Pilah	973	3651	68.5%
26	Port Dickson	61	183	91.8%
	MELAKA			
27	Melaka	1,681	6,724	106.0%
	JOHOR			
28	Sultanah Aminah, JB	1,744	8,720	106.2%
29	Sultan Ismail, JB	780	5,460	87.3%
30	Muar	490	2,388	82.4%
31	Batu Pahat	481	2,405	69.0%
	PAHANG			
32	Tengku Ampuan Afzan, Kuantan	624	4,611	105.2%
33	Temerloh	684	7,524	104.0%
34	Kuala Lipis	38	38	12.6%
	TERENGGANU			
35	Sultanah Nur Zahirah, Kuala Terengganu	1,268	6,340	102.0%
	KELANTAN			
36	Raja Perempuan Zainab II, Kota Bharu	1,243	5,841	80.8%
37	Kuala Krai	125	750	89.1%
	SARAWAK			
38	Umum Sarawak	715	3,766	116.6%
39	Sibu	810	4,705	99.2%
40	Miri	338	1,590	72.7%
41	Bintulu	215	1,523	83.5%
	SABAH			
42	Queen Elizabeth	387	2,619	101.7%
43	Duchess Of Kent	551	3,849	87.9%
44	Likas	619	2,047	76.7%
45	Keningau	131	436	60.1%
46	Tawau	312	1,107	60.6%
47	Lahad datu	205	729	49.9%
	TOTAL	32,621	169,776	

Table 10 : Admissions, patient days and bed-occupancy rates in HDU / PACU in KKM hospitals, 2011

No.	HOSPITAL	No. Of Admissions	Patients Days	Bed Occupancy Rate
	PERLIS			
1	Kangar	162	8	58.3%
	KEDAH			
2	Alor Setar	615	3271	96.2%
3	Sultan Abdul Halim, Sungai Petani	428	5	86.3%
	PERAK			
4	Ipoh	1,555	5	72.0%
	SELANGOR			
5	Tengku Ampuan Rahimah, Kelang	405	1,626	74.8%
6	Ampang	33	90	24.5%
7	Serdang	254	4	51.3%
8	Sungai Buloh	846	2,663	121.6%
	NEGERI SEMBILAN			
9	Tuanku Jaafar, Seremban	454	1,604	139.9%
	Melaka			
10	Melaka	225	2	50.0%
	JOHOR			
11	Muar	391	1151	78.9%
	PAHANG			
12	Tengku Ampuan Afzan, Kuantan	351	2,422	104.3%
	TERENGGANU			
13	Kemaman	132	387	86.5%
	SARAWAK			
14	Umum Sarawak	140	454	41.0%
15	Miri	123	407	73.9%
TOTAL		5,991	13,691	

Table 11 : Attendances, new cases and procedures at Chronic Pain Clinics in KKM hospitals, 2011

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	3	3	0	NA
	PULAU PINANG				
2	Pulau Pinang	815	136	121	NA
	PERAK				
3	Ipoh	1,508	111	125	NA
	SELANGOR				
4	Tengku Ampuan Rahimah, Kelang	947	148	84	12
5	Selayang	1,382	141	163	111
	WILAYAH PERSEKUTUAN				
6	Kuala Lumpur	105	105	4	33
	NEGERI SEMBILAN				
7	Tuanku Jaafar, Seremban	261	56	38	8
	MELAKA				
8	Melaka	538	88	76	NA
	JOHOR				
9	Sultanah Aminah, JB	329	55	4	51
10	Sultan Ismail, JB	600	81	35	96
	PAHANG				
11	Tengku Ampuan Afzan, Kuantan	263	78	103	NA
	TERENGGANU				
12	Sultanah Nur Zahirah, Kuala Terengganu	126	30	12	29
	KELANTAN				
13	Raja Perempuan Zainab II, Kota Bharu	491	87	153	64
14	Kuala Krai	4	1	NA	3
	SARAWAK				
15	Umum Sarawak	389	171	159	NA
	TOTAL	7,368	1,119	918	404

Table 12: No. of anaesthetics administered in KKM hospitals, 2007 – 2011

No.	HOSPITAL	2007	2008	2009	2010	2011
	PERLIS					
1	Kangar	3,712	3,862	4,346	4,259	4,447
	KEDAH					
2	Alor Setar	11,766	12,939	12,586	13,705	14,300
3	Langkawi	852	712	739	985	1203
4	Sultan Abdul Halim, Sungai Petani	8,547	8,268	8,236	8,350	9,713
5	Kulim	3,445	3,249	3,734	3,895	4,229
	PULAU PINANG					
6	Pulau Pinang	9,547	11,598	11,754	12,558	13,044
7	Seberang Jaya	5,871	6,217	6,601	6,342	6,758
8	Bukit Mertajam	2,064	2,061	2,497	2,343	1,249
9	Kepala Batas	414	481	562	250	294
	PERAK					
10	Ipoh	13,262	13,836	15,036	15,356	16,359
11	Seri Manjung	3,233	3,458	3,702	3,692	4,026
12	Teluk Intan	4,764	4,749	4,814	5,171	5,057
13	Taiping	8,099	7,429	7,312	8,790	9,636
14	Slim River	736	721	453	600	860
	SELANGOR					
15	Tengku Ampuan Rahimah, Kelang	11,712	11,023	11,545	10,842	11,949
16	Ampang	1,547	3,940	4,694	5,799	5,928
17	Serdang	4,732	6,645	7,740	7,890	9,145
18	Selayang	8,135	9,072	9,038	9,886	10,297
19	Sungai Buloh	5,420	7,106	7,104	7,240	8,421
20	Kajang	4,102	3,894	3,445	3,882	4,202
	WILAYAH PERSEKUTUAN					
21	Kuala Lumpur	22,531	24,682	24,180	25,732	24,865
22	Putrajaya	4,514	4,691	5,348	5,546	6,117
23	Labuan	603	522	505	542	570
	NEGERI SEMBILAN					
24	Tuanku Jaafar, Seremban	8,791	8,616	8,198	9,141	10,872
25	Tuanku Ampuan Najihah, Kuala Pilah	1,901	2,019	2,127	2,253	2,352
26	Port Dickson	NA	NA	NA	NA	79
	MELAKA					
27	Melaka	11,466	12,471	11,639	12,427	13,191
	JOHOR					
28	Sultanah Aminah, JB	17,349	12,565	13,091	14,658	15,136
29	Sultan Ismail, JB	4,143	6,068	6,490	6,675	7,040
30	Muar	4,543	4,879	4,879	4,569	2,523
31	Batu Pahat	4,552	4,529	4,688	4,465	4,717
32	Segamat	1,409	1,396	1,374	2,029	2,442
33	Kluang	877	926	934	974	870
34	Kulai	749	701	731	643	623
	PAHANG					
35	Tengku Ampuan Afzan, Kuantan	8,305	8,673	8,425	9,101	10,126
36	Temerloh	5,341	5,722	6,566	6,070	6,214
37	Kuala Lipis	303	358	502	785	1165
	TERENGGANU					
38	Sultanah Nur Zahirah, Kuala Terengganu	10,527	10,904	11,013	10,879	10,994
39	Kemaman	1,185	1,550	1,652	1,197	1,600
	KELANTAN					
40	Raja Perempuan Zainab II, Kota Bharu	8,327	10,181	10,521	9,854	11,007
41	Kuala Krai	1,190	1,035	2,025	1,746	2,170
42	Tanah Merah	484	740	865	1,296	1,766
43	Pasir Mas	NA	NA	NA	NA	194
44	Pasir Puteh	NA	NA	NA	NA	225

No.	HOSPITAL	2007	2008	2009	2010	2011
	SARAWAK					
45	Umum Sarawak	10,912	11,073	10,984	11,351	12,068
46	Sibu	5,464	5,709	6,139	6,087	6,043
47	Miri	3,730	3,855	3,937	4,260	4,474
48	Bintulu	1,946	2,333	2,427	2,357	2,562
49	Sarikei	901	953	831	594	823
50	Kapit	556	594	594	428	413
51	Serian	765	685	651	579	451
52	Bau	240	267	212	125	130
53	Lundu	134	297	329	89	337
54	Simunjan	94	116	60	9	63
55	Sri Aman	294	259	183	145	159
56	Betong	195	241	326	308	237
57	Saratok	80	114	65	26	52
58	Mukah	376	192	174	187	246
59	Daro	81	74	76	39	73
60	Kanowit	124	133	93	63	25
61	Lawas	115	160	138	101	129
62	Limbang	417	513	428	531	642
63	Marudi	152	160	160	157	163
	SABAH					
64	Queen Elizabeth	8,775	7,393	5,609	5,701	6,467
65	Duchess Of Kent	2,768	3,846	3,827	3,989	4,444
66	Likas	4,950	5,152	6,633	7,764	8,439
67	Keningau	2,721	2,592	2,639	2,632	2,557
68	Tawau	4,009	4,144	4,840	4,350	4,631
69	Kudat	534	481	374	427	351
70	Kota Marudu	579	466	360	324	277
71	Kota Belud	418	441	467	367	465
72	Mesra, Bukit Padang	338	889	976	437	456
73	Papar	299	405	254	143	149
74	Beaufort	363	395	140	395	206
75	Sipitang	80	61	123	64	98
76	Tenom	702	424	437	508	479
77	Tambunan	270	298	328	283	232
78	Ranau	693	1,125	1,525	1,428	1,870
79	Beluran	199	127	126	214	206
80	Kinabatangan	35	3	21	35	94
81	Lahad datu	2,114	1,839	1,429	1,410	1,255
82	Kunak	0	0	0	24	11
83	Semporna	121	83	18	65	92
TOTAL		287,291	302,022	309,122	319,628	341,855

Table 13: Percentage of anaesthetics administered for Emergency Surgery in KKM hospitals, 2007 - 2011

No	HOSPITAL	2007	2008	2009	2010	2011
	PERLIS					
1	Kangar	57.40%	57.20%	45.20%	56.90%	57.39%
	KEDAH					
2	Alor Setar	48.90%	46.90%	50.00%	51.60%	55.89%
3	Langkawi	64.70%	62.90%	59.70%	69.80%	65.86%
4	Sultan Abdul Halim, Sungai Petani	64.60%	69.50%	67.10%	68.90%	69.00%
5	Kulim	58.00%	55.30%	53.10%	55.80%	62.80%
	PULAU PINANG					
6	Pulau Pinang	42.30%	46.20%	46.80%	48.90%	40.16%
7	Seberang Jaya	69.40%	72.40%	72.10%	71.70%	72.36%
8	Bukit Mertajam	0.00%	1.20%	1.00%	2.00%	1.28%
9	Kepala Batas	0.00%	0.00%	1.10%	0.00%	0.00%
	PERAK					
10	Ipoh	58.80%	58.30%	59.20%	59.60%	58.92%
11	Seri Manjung	63.60%	65.50%	62.90%	66.70%	66.57%
12	Teluk Intan	69.90%	61.70%	67.70%	68.20%	70.26%
13	Taiping	64.00%	67.80%	66.50%	64.60%	62.65%
14	Slim River	49.70%	64.40%	59.80%	57.50%	58.72%
	SELANGOR					
15	Tengku Ampuan Rahimah, Kelang	58.80%	56.60%	53.30%	54.90%	54.05%
16	Ampang	62.40%	63.40%	61.40%	57.50%	56.49%
17	Serdang		54.20%	52.60%	55.70%	50.51%
18	Selayang	43.40%	46.20%	45.30%	49.10%	48.85%
19	Sungai Buloh	68.60%	67.10%	69.00%	75.70%	67.39%
20	Kajang	69.80%	68.60%	73.20%	71.90%	70.69%
	WILAYAH PERSEKUTUAN					
21	Kuala Lumpur	46.40%	43.20%	42.90%	43.50%	44.67%
22	Putrajaya	51.20%	48.80%	49.60%	46.40%	46.07%
23	Labuan	57.90%	60.30%	78.20%	51.10%	51.58%
	NEGERI SEMBILAN					
24	Tuanku Jaafar, Seremban	55.30%	56.20%	56.10%	59.30%	55.21%
25	Tuanku Ampuan Najihah, Kuala Pilah	61.80%	60.00%	52.30%	57.50%	57.78%
26	Port Dickson	NA	NA	NA	NA	48.10%
	MELAKA					
27	Melaka	60.00%	56.70%	41.90%	59.90%	61.99%
	JOHOR					
28	Sultanah Aminah, JB	60.80%	71.20%	67.00%	66.90%	56.38%
29	Sultan Ismail, JB	53.10%	68.20%	57.00%	67.80%	65.91%
30	Muar	64.80%	62.60%	62.60%	57.30%	58.70%
31	Batu Pahat	64.30%	NA	64.50%	66.80%	67.95%
32	Segamat	60.60%	71.60%	78.50%	65.10%	65.11%
33	Kluang	62.00%	62.50%	56.30%	60.60%	69.77%
34	Kulai	0.00%	0.00%	0.00%	0.00%	0.00%
	PAHANG					
35	Tengku Ampuan Afzan, Kuantan	47.70%	48.80%	50.30%	53.40%	54.57%
36	Temerloh	61.30%	65.40%	65.50%	68.20%	67.04%
37	Kuala Lipis	79.20%	71.50%	61.80%	68.20%	63.78%
	TERENGGANU					
38	Sultanah Nur Zahirah, Kuala Terengganu	62.40%	61.40%	62.80%	64.70%	61.30%
39	Kemaman	67.50%	65.90%	68.30%	71.60%	65.19%
	KELANTAN					
40	Raja Perempuan Zainab II, Kota Bharu	56.60%	53.50%	55.10%	61.50%	56.64%
41	Kuala Krai	59.20%	61.80%	69.70%	68.80%	65.14%
42	Tanah Merah	56.80%	52.40%	63.10%	70.70%	74.24%
43	Pasir Mas	NA	NA	NA	NA	0.00%
44	Pasir Puteh	NA	NA	NA	NA	0.00%

No	HOSPITAL	2007	2008	2009	2010	2011
	SARAWAK					
45	Umum Sarawak	51.70%	41.10%	58.40%	59.20%	60.82%
46	Sibu	43.40%	47.30%	52.30%	47.40%	49.03%
47	Miri	54.20%	56.60%	65.30%	70.50%	72.02%
48	Bintulu	55.10%	55.40%	60.60%	60.60%	59.91%
49	Sarikei	56.80%	65.10%	64.60%	66.50%	47.27%
50	Kapit	47.50%	44.80%	43.90%	33.90%	39.95%
51	Serian	44.80%	40.30%	49.80%	48.70%	58.31%
52	Bau	36.30%	50.20%	49.10%	83.20%	62.31%
53	Lundu	44.80%	22.90%	28.30%	65.20%	28.19%
54	Simunjan	55.30%	44.00%	45.00%	22.20%	57.14%
55	Sri Aman	30.60%	42.10%	39.30%	36.60%	47.17%
56	Betong	41.00%	46.90%	31.60%	36.00%	52.74%
57	Saratok	48.80%	36.80%	41.50%	38.50%	51.92%
58	Mukah	43.90%	42.70%	47.70%	43.90%	34.55%
59	Daro	35.80%	45.90%	73.70%	46.20%	35.62%
60	Kanowit	46.00%	55.60%	65.60%	31.70%	80.00%
61	Lawas	50.40%	51.90%	57.20%	45.50%	48.84%
62	Limbang	41.00%	31.00%	28.30%	25.40%	33.18%
63	Marudi	36.80%	49.40%	49.40%	43.30%	41.72%
	SABAH					
64	Queen Elizabeth	49.50%	52.10%	55.40%	55.70%	53.58%
65	Duchess Of Kent	57.90%	63.70%	64.90%	64.50%	62.20%
66	Likas	59.20%	58.20%	59.80%	63.10%	62.70%
67	Keningau	62.90%	55.60%	57.00%	53.80%	56.71%
68	Tawau	54.60%	56.10%	58.60%	65.10%	67.57%
69	Kudat	41.20%	42.80%	41.70%	38.20%	27.64%
70	Kota Marudu	62.50%	63.10%	63.10%	52.20%	46.57%
71	Kota Belud	40.70%	34.50%	27.20%	46.90%	38.49%
72	Mesra, Bukit Padang	0.00%	0.00%	0.00%	0.00%	0.00%
73	Papar	25.40%	30.60%	20.50%	0.00%	0.00%
74	Beaufort	37.20%	36.50%	50.00%	35.40%	46.60%
75	Sipitang	38.80%	37.70%	62.60%	57.80%	54.08%
76	Tenom	12.10%	10.60%	18.10%	10.40%	9.81%
77	Tambunan	97.80%	52.30%	99.70%	80.90%	73.71%
78	Ranau	31.70%	53.40%	59.40%	59.40%	69.20%
79	Beluran	7.00%	29.90%	35.70%	37.90%	46.60%
80	Kinabatangan	2.90%	0.00%	23.80%	65.70%	37.23%
81	Lahad Datu	47.90%	52.60%	69.50%	81.00%	67.81%
82	Kunak	0.00%	0.00%	0.00%	0.00%	0.00%
83	Semporna	71.90%	77.10%	44.40%	76.90%	90.22%
AVERAGE		49.90%	50.40%	55.80%	58.00%	57.24%

Table 14: Saturday Lists in KKM Hospitals, 2011

No	Hospital	No. of operations done under Saturday List						No. of Saturday elective list (as of Dec 31st 2010 and 2011)	
		General Anaesthesia		Local Anaesthesia		Total			
		2010	2011	2010	2011	2010	2011	2010	2011
1	Kangar	103	116	34	30	137	146	42	45
2	Alor Setar	224	2	835	3	1059	5	220	5
3	Sultan Abdul Halim,Sungai Petani	150	179	136	137	286	316	87	286
4	Kulim	59	24	0	0	59	24	30	24
5	Pulau Pinang	658	650	66	287	724	937	245	246
6	Seberang Jaya	152	148	194	249	346	397	84	49
7	Ipoh	560	5	0	0	560	5	214	224
8	Teluk Intan	152	30	0	0	152	30	47	30
9	Taiping	192	94	130	3	322	97	77	97
10	Tengku Ampuan Rahimah, Kelang	221	389	92	116	313	505	94	505
11	Ampang	141	1	22	0	163	1	50	1
12	Serdang	179	432	0	0	179	432	45	100
13	Selayang	350	436	344	306	694	742	181	184
14	Sungai Buloh	99	116	364	0	1056	116	148	116
15	Kajang	105	175	0	0	105	175	40	61
16	Kuala Lumpur	1099	1042	97	131	1196	1173	417	391
17	Putrajaya	281	307	12	10	293	317	120	3
18	Tuanku Jaafar, Seremban	152	71	240	46	392	117	96	117
19	Kuala Pilah	NA	36	NA	0	NA	36	NA	36
20	Melaka	304	329	15	25	314	354	134	138
21	Sultanah Aminah, JB	315	106	21	0	336	106	98	282
22	Sultan Ismail, JB	201	204	0	0	201	204	38	204
23	Muar	121	45	0	0	121	45	42	45
24	Tengku Ampuan Afzan, Kuantan	198	82	26	8	224	90	60	90
25	Temerloh	135	156	14	356	149	512	42	512
26	Kota Bharu	292	364	251	363	543	727	125	727
27	Kuala Krai	NA	152	NA	21	NA	173	NA	52
28	Kuala Terengganu	292	248	12	30	304	278	94	278
29	Likas	183	89	243	17	426	106	123	106
30	Umum Sarawak	154	146	187	159	341	305	99	51
31	Miri	56	135	0	0	56	135	16	41
32	Sibu	NA	21	NA	25	NA	46	NA	5
33	Queen Elizabeth	277	NA	0	NA	277	NA	104	350
34	Sandakan	112	NA	23	NA	135	NA	38	40
TOTAL		7,524	6,330	3,358	2,322	10,875	8,652	3,250	5,441

Table 15: Trends in output for Program Anestisiologi, KKM, 2004-2011

	2004	2005	2006	2007	2008	2009	2010	2011
								(% increase from 2010)
No. of anaesthetics administered	229,686	266,660	277,271	286,324	301,321	308,391	319,628	339,844
								6.30%
No. of anaesthetics for day care surgery	NA	NA	4,777	5,190	5,363	5,315	5,543	8,367
								51%
No. of patients under acute pain service	18,731	22,459	31,131	40,490	52,440	61,583	65,319	81,801
								25.20%
No. of patients under obstetric analgesia service	NA	3,161	3,367	3,137	3,363	3,952	4,370	3,949
								-
No. of attendance at anaesthetic clinic	NA	NA	16,266	20,363	30,795	48,491	52,880	61,873
								17.00%
No. of ICU admissions	15,115	13,027	16,234	20,075	23,928	24,908	30,089	32,621
								8.40%
No. of HDU admissions	NA	NA	3,226	3,536	5,662	7,000	7,474	5,991
								-
No. of attendance at chronic pain clinic	NA	NA	173	1,785	3,199	4,622	6,281	7,368
								17.30%

Trends in output for Program Anestisiologi, KKM, 2004-2011

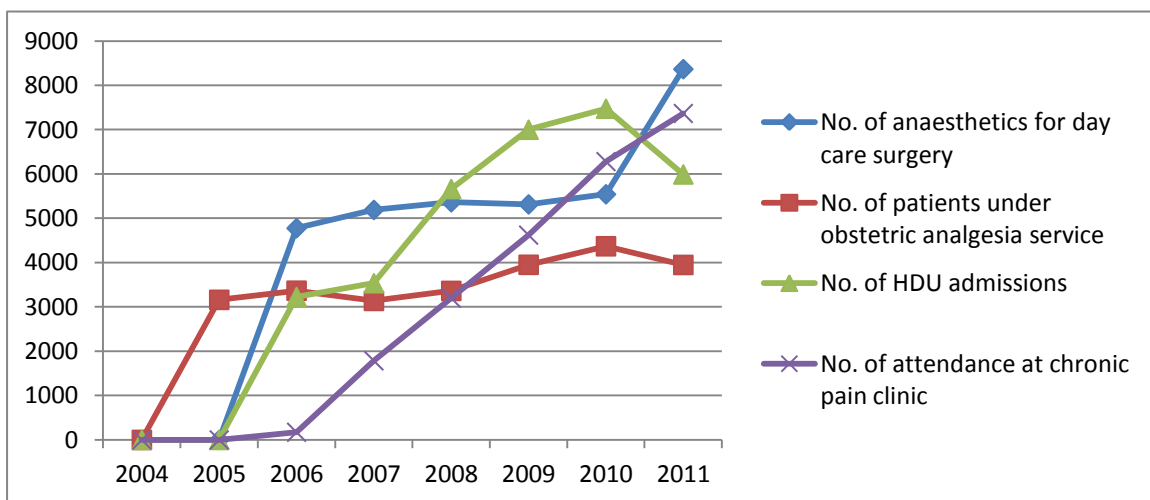
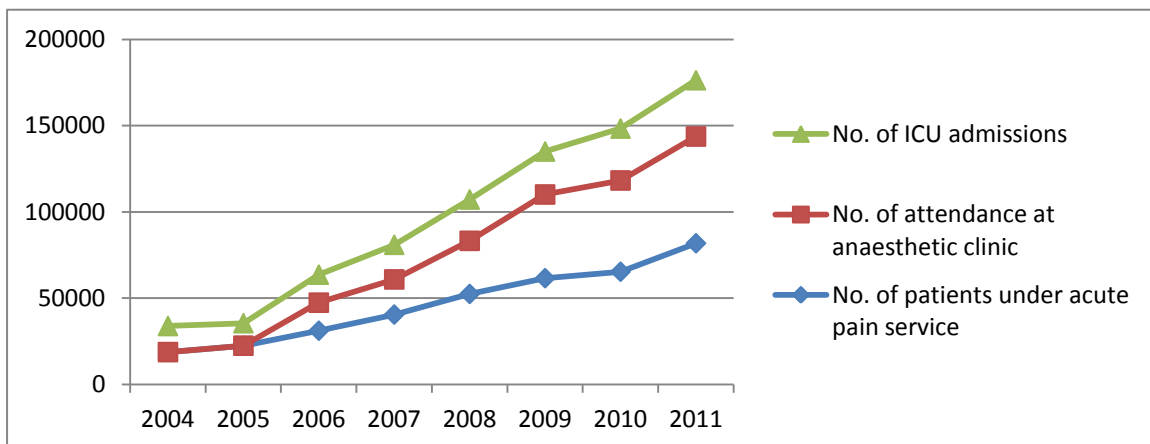
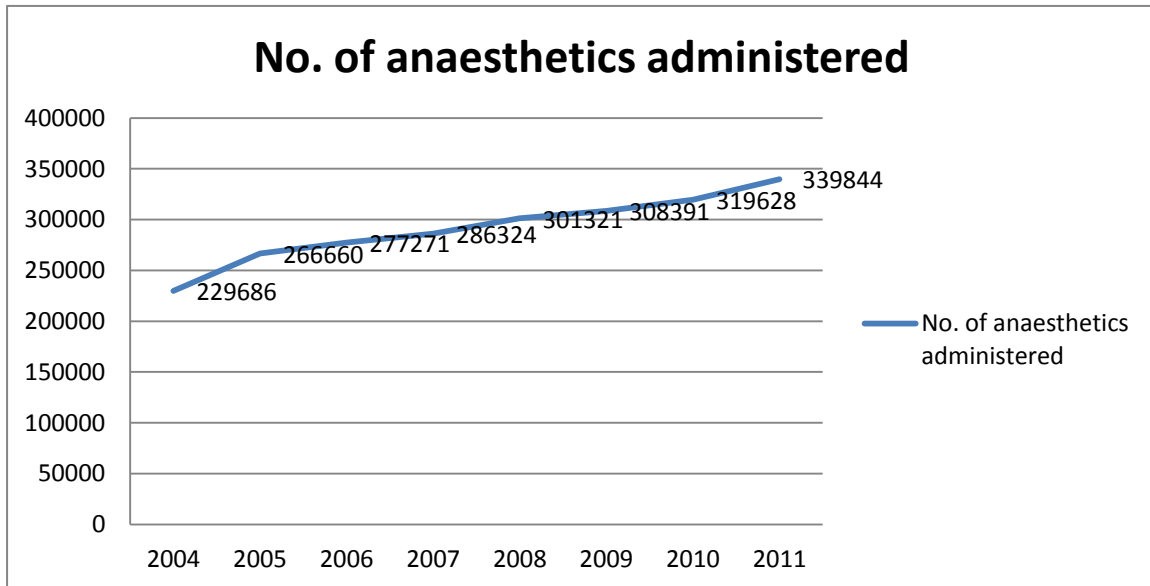


Table 16: Anaesthetic specialists in KKM hospitals, 2011

NO	HOSPITAL	No. of Specialist											TOTAL
		Jusa A	Jusa B	Jusa C	U54 / U53	U52 / U51	U48 / U47	U44 / U43	Contract	Sessional	Paid Leave	Non-Paid Leave	
	PERLIS												
1	Kangar			1		3							4
	KEDAH												
2	Alor Setar			2	8								10
3	Langkawi												0
4	Sultan Abdul Halim, Sg Petani			2	2								4
5	Kulim				2								2
	PULAU PINANG												
6	Pulau Pinang	1		4	6	6	2						19
7	Seberang Jaya			1	4	1							6
	PERAK												
8	Ipoh		1		7	3	1						12
9	Seri Manjung				2								2
10	Slim River				1								1
11	Teluk Intan				1	1							2
12	Taiping			1	5	1							7
	SELANGOR												
13	T. Ampuan Rahimah, Kelang			2	8								10
14	Ampang		1	1	6								8
15	Serdang		1	2	8								11
16	Selayang		3		12	1							16
17	Sungai Buloh		1	1	9		1						12
18	Kajang			1	2								3
	WILAYAH PERSEKUTUAN												
19	Kuala Lumpur	1		3	26	2	7						39
20	Putrajaya		1	2	4								7
21	Labuan				1								1
	NEGERI SEMBILAN												
22	Tuanku Jaafar, Seremban		1	1	5								7
23	T. Ampuan Najihah, Kuala Pilah				2								2
24	Port Dickson				1								1
	MELAKA												
25	Melaka			1	8	1	1						11
	JOHOR												
26	Sultanah Aminah, JB		2	2	10	3	1						18
27	Sultan Ismail, JB			2	3	1							6
28	Muar				1	2							3
29	Batu Pahat												0
30	Segamat												0
	PAHANG												
31	Tengku Ampuan Afzan, Kuantan			2	6								8
32	Kuala Lipis				1								1
33	Temerloh				2		3						5
	TERENGGANU												
34	Sltanh Nur Zahirah, K. Trganu		1		8	2							11
35	Kemaman				1								1
	KELANTAN												
36	RJ Prmpn Zainab II, K. Bharu		1	3	8								12
37	Tanah Merah				1		1						2
38	Kuala Krai				1								1
	SARAWAK												
39	Umum Sarawak		1	1	9	1	3						15
40	Sibu					2							2
41	Miri					2							2
42	Bintulu					1							1
	SABAH												
43	Queen Elizabeth		1		5		1						7
44	Likas												0
45	Keningau				1								1
46	Lahad datu												0
47	Sandakan				2								2
48	Tawau												0
TOTAL		2	15	35	189	33	21	0	0	0	0	0	295

Table 17: Anaesthetic medical officers and trainees in KKM hospitals, 2011

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							0							0
1	Kangar	2			9		5	16							0
	KEDAH														
2	Alor Setar	2		2	11		7	22			3	3			6
3	Langkawi							0							0
4	Sultan Abdul Halim, Sg Petani	1		1	14			16							0
5	Kulim	1		1	6			8							0
	PULAU PINANG														
6	Pulau Pinang		2	3	6		3	14			7	13			20
7	Seberang Jaya				17			17							0
8	Bukit Mertajam				4			4							0
9	Kepala Batas			1	1			2							0
	PERAK														
10	Ipoh				21		16	37			2	5			7
11	Seri Manjung			2	7			9							0
12	Slim River			1	3			4							0
13	Teluk Intan		1	9				10							0
14	Taiping				11		9	20							0
	SELANGOR														
15	T. Ampuan Rahimah, Kelang	1		1	10		1	13			1	3			4
16	Ampang		1	11				12							0
17	Serdang				16			16				2			2
18	Selayang				7		15	22			1	4			5
19	Sungai Buloh		1	2	7		11	21							0
20	Kajang	1			11			12							0
	WILAYAH PERSEKUTUAN														
21	Kuala Lumpur	2	1		12			15			22	37			59
22	Putrajaya			2	13			15			3				3
23	Labuan				1			1							0
	NEGERI SEMBILAN														
24	Tuanku Jaafar, Seremban	1			24			25				2			2
25	T. Ampuan Najihah, Kuala Pilah		2		10			12							0
26	Port Dickson				4			4							0
	MELAKA														
27	Melaka				18		21	39				4			4
	JOHOR														
28	Sultanah Aminah, JB			2	12	6		20			5	7			12
29	Sultan Ismail, JB			1	11	8		20							0
30	Muar		1		10			11							0
31	Batu Pahat							0							0
32	Segamat							0							0
33	Kluang							0							0
	PAHANG														
34	Tengku Ampuan Afzan, Kuantan	2		5	21			28		1	4	1			6
35	Temerloh				16			16							0
36	Kuala Lipis				2			2							0
	TERENGGANU														
37	Sltanh Nur Zahirah, K. Trganu	1			12		4	17		2	4	2			8
38	Kemaman		1		1	1		3							0
	KELANTAN														
39	RJ Prmpn Zainab II, K. Bharu	2		1	18			21			5	5			10
40	Tanah Merah			1	2			3							0
41	Kuala Krai			1	2			3							0
	SARAWAK														
42	Umum Sarawak				8	15		23				2			2
43	Sibu				4	3		7							0
44	Miri				6		3	9							0
45	Bintulu				4			4							0
	SABAH														
46	Queen Elizabeth				10			10			6				6
47	Likas							0							0
48	Keningau				3			3							0
49	Lahad datu			2				2							0
50	Sandakan				7			7							0
51	Tawau				4			4							0
	TOTAL	16	10	49	396	33	95	599	0	3	63	90	0	0	156

Table 18: Anaesthetic /ICU nurses and Assistant Medical Officers (AMO) in KKM hospitals, 2011

NO	HOSPITAL	No. Of Allied Health Personnel																							
		AMO						GA Nurse						ICU nurse						APS / OAS / ANES CLINIC				TOTAL	
		U41	U36	U32	U32 (JT)	U29	Contract	U41	U36	U32	U32 (JT)	U29	U19 (JM)	Contract	U41	U36	U32	U32 (JT)	U29	U19 (JM)	Contract	U32	U32 (JT)		U29
	PERLIS																								
1	Kangar		1	1		4				1		20					2		25						54
	KEDAH																								
2	Alor Setar			2		2	1			3		37				1	2		41						89
3	Langkawi																								0
4	Sg Petani			2		4						24													30
5	Kulim			1		2						12							26						41
	PULAU PINANG																								
6	Pulau Pinang		1	5		9	1			2		47			1	1	6		137						210
7	Seberang Jaya			2		1				2		13		2			1		30						51
8	Bukit Mertajam			1						1		5					2		24						33
9	Kepala Batas									1							1								2
	PERAK																								
10	Ipoh			2		7						17			2		12		87			3		4	134
11	Seri Manjung					4					1	9					1		26			1			42
12	Teluk Intan			1		1						11					1		9				1		24
13	Slim River			2		1						2	2				1		15						23
14	Taiping			2								22					4		89						117
	SELANGOR																								
15	Kelang			1		7		1		1		15			1	1	10		113						150
16	Ampang		1	2		3				1		9				3	45								64
17	Serdang		1	1		9						2				1	4		72						90
18	Selayang		1	1		4						10				1	4		55						76
19	Sungai Buloh			1		4						33				1	5		104						148
20	Kajang			1		2						11					2		28						44
	W. PERSEKUTUAN																								
21	Kuala Lumpur	1	1	5		10	1			2		63			1		5		156			4		8	257
22	Putrajaya	1		1		3						15						2	51			1		2	76
23	Labuan						2					2					2		10						16
	NEGERI SEMBILAN																								
24	Seremban			1		5				1		18					3		14						42
25	Kuala Pilah			2		5				1		18			1		1		16						44
26	Port Dickson											2					1		10						13
	MELAKA																								
27	Melaka	1		3		10		1	1	1		9				1	15		71						113
	JOHOR																								
28	Sultanah Aminah, JB			3		7				1		31			1		8	2	111						164
29	Sultan Ismail, JB		1	1		2				1		19					5		58				5		92
30	Muar			1		3				1		12					1		31						49
31	Batu Pahat																								0
32	Segamat																								0
33	Kluang																								0
	PAHANG																								
34	Kuantan			2		2				1		34	1				7		46				3		96
35	Kuala Lipis					1						3					1		6						11
36	Temerloh			1		5						28				1	4		60						99
	TERENGGANU																								
37	Kuala Terengganu			2		7				2		38				1	5		83				2	1	141
38	Kemaman					1				1		15					1		10						28
	KELANTAN																								
39	Kota Bharu	1		2		8			1	8		31			1		10	10	94						166
40	Kuala Krai					1				1		8					1		16						27
41	Tanah Merah			1		2						10													13

NO	HOSPITAL	No. of Allied Health Personnel																								
		AMO						GA Nurse						ICU nurse						APS / OAS / ANES CLINIC				TOTAL		
		U41	U36	U32	U32 (JT)	U29	Contract	U41	U36	U32	U32 (JT)	U29	U19 (JM)	Contract	U41	U36	U32	U32 (JT)	U29	U19 (JM)	Contract	U32	U32 (JT)		U29	U19 (JM)
	SARAWAK																									
42	Umum Sarawak																								0	
43	Sibu		2	5		3	1									1	3		54						69	
44	Miri		2			2					2					1	1		31						39	
45	Bintulu			3		1										1	1		19						25	
46	Sarikei		1			2																			3	
47	Kapit			1		1																			2	
48	Serian			1		1																			2	
49	Bau			1		1																			2	
50	Lundu					1																			1	
51	Simunjan			1																					1	
52	Sri Aman			1		1																			2	
53	Betong			1		1																			2	
54	Saratok					1																			1	
55	Mukah			1		1																			2	
56	Daro					1																			1	
57	Kanowit			1		1																			2	
58	Lawas			2																					2	
59	Limbang			1		1	1																		3	
60	Marudi			1		1																			2	
	SABAH																									
61	Queen Elizabeth	1	2	3		3				1		1	8		1	1	5		74						100	
62	Likas					3						6				1	2		12	6					30	
63	Keningau					2													18						20	
64	Lahad datu		1	1													1	12							15	
65	Beaufort			1		1				1		1													4	
66	Beluran					2																			2	
67	Kota Belud			1		1																			2	
68	Ranau			1																					1	
69	Sandakan			2		4				1	1						3		46						57	
70	Semporna			1																					1	
71	Tawau			1		5											2		26						34	
72	Sipitang			1																					1	
73	Tambunan			1																					1	
74	Kinabatangan					1																			1	
75	Kota Marudu			1		1																			2	
76	Kudat			1																					1	
77	Kunak			1																					1	
78	Pitas			1		1																			2	
79	Tenom			1		1																			2	
80	Papar			1																					1	
TOTAL		5	15	92	0	182	7	2	2	36	2	660	17	2	8	17	191	26	2004	6	0	4	1	23	1	3,303
		301						721						2,252						29						

Table 19: Subspecialists under Program Anestisiologi in KKM hospitals, 2011

No.	Hospital	Cardiac Anaesthesia		Pediatric Anesthesia		Neuro Anaesthesia		Obstetric Anesthesia		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			
2	P. Pinang	4	1			1						1	1	1	
3	Ipoh			1									2	1	1
4	Taiping												1		1
5	Selayang			1				1				1		2	
6	Seberang Jaya											1			
7	Sungai Buloh					1						1	2	1	
8	Serdang	4	2												
9	Kelang							1				1		1	
10	Kuala Lumpur			3	1	1	2	1	2			3	1		2
11	Seremban			1											
12	Melaka											1	1	2	
13	Kota Bharu		1	1								1	2	1	1
14	Kuantan					1									
15	Kuala Terengganu											2			1
16	Sultanah Aminah, JB	3	1	1								1	1	1	
17	Sultan Ismail, JB													1	
18	Kuching														
19	Kota Kinabalu	1										1			
20	Kulim			2				3				2			
21	Likas			1											
22	Oversea														
23	Putrajaya					1									
	Total	12	5	11	1	5	2	6	2	0	0	17	11	11	6

Total no. of subspecialists = 62

Total no. of subspecialty trainees = 27

Table 20: No. of ICU / HDU beds and OT in KKM hospitals 2011

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	11	14	14
3	Langkawi	4	5	0	0	2	2
4	Sultan Abdul Halim, Sungai Petani	10	7	10	6	9	7
5	Kulim	7	7	0	0	3	3
	PULAU PINANG						
6	Pulau Pinang	26	24	0	0	16	14
7	Seberang Jaya	8	8	0	0	3	3
8	Bukit Mertajam	5	5	1	1	3	3
9	Kepala Batas	4	4	0	0	4	2
	PERAK						
10	Ipoh	16	16	18	18	17	17
11	Seri Manjung	8	8	0	0	3	3
12	Teluk Intan	4	4	0	0	6	5
13	Taiping	18	18	0	0	3	3
14	Slim River	5	5	0	0	4	2
	SELANGOR						
15	Tengku Ampuan Rahimah, Kelang	22	22	9	6	17	14
16	Ampang	12	12	10	4	11	6
17	Serdang	16	10	15	6	20	11
18	Selayang	24	16	0	0	22	16
19	Sungai Buloh	18	18	24	12	22	7
20	Kajang	6	6	0	0	3	3
	WILAYAH PERSEKUTUAN						
21	Kuala Lumpur	30	30	0	0	33	33
22	Putrajaya	11	11	0	0	9	7
23	Labuan	5	5	0	0	2	2
	NEGERI SEMBILAN						
24	Tuanku Jaafar, Seremban	8	8	5	5	10	8
25	Tuanku Ampuan Najihah, Kuala Pilah	4	4	0	0	3	2
26	Port Dickson	4	4	0	0	1	1
	MELAKA						
27	Melaka	22	22	0	0	11	11
	JOHOR						
28	Sultanah Aminah, JB	34	28	0	0	13	13
29	Sultan Ismail, JB	17	17	15	0	18	10
30	Muar	8	8	14	4	4	4
31	Batu Pahat	8	8	0	0	2	2
32	Segamat	4	4	4	4	3	3
33	Kluang	0	0	6	6	2	2
	PAHANG						
34	Tengku Ampuan Afzan, Kuantan	12	12	6	6	13	10
35	Temerloh	18	11	0	0	13	5
36	Kuala Lipis	3	2	0	0	2	2
	TERENGGANU						
37	Sultanah Nur Zahirah, Kuala Terengganu	20	18	0	0	16	13
38	Kemaman	2	2	0	0	2	2
	KELANTAN						
39	Raja Perempuan Zainab II, Kota Bharu	23	15	5	5	7	7
40	Kuala Krai	6	3	0	0	1	1
41	Tanah Merah	4	0	0	0	2	2

NO	HOSPITAL	Facility					
		ICU Bed		HDU Bed		OR	
		Available	Functional	Available	Functional	Available	Functional
	SARAWAK						
42	Umum Sarawak	9	9	2	2	14	12
43	Sibu	13	13	0	0	10	7
44	Miri	6	6	2	2	2	2
45	Bintulu	6	5	0	0	3	3
46	Sarikei	0	0	0	0	4	3
47	Kapit	0	0	2	2	2	2
48	Serian	0	0	0	0	2	2
49	Bau	0	0	0	0	2	2
50	Lundu	0	0	0	0	2	2
51	Simunjan	0	0	0	0	2	1
52	Sri Aman	0	0	0	0	2	2
53	Betong	0	0	0	0	2	2
54	Saratok	0	0	0	0	2	2
55	Mukah	0	0	0	0	2	2
56	Daro	0	0	0	0	2	2
57	Kanowit	0	0	0	0	2	2
58	Lawas	0	0	0	0	2	2
59	Limbang	0	0	0	0	2	2
60	Marudi	0	0	0	0	2	2
	SABAH						
61	Queen Elizabeth	17	17	0	0	3	5
62	Likas	6	6	0	0	6	6
63	Keningau	4	4	0	0	3	3
64	Lahad datu	4	3	0	0	3	3
65	Beaufort	0	0	0	0	2	2
66	Beluran	0	0	0	0	2	2
67	Kota Belud	0	0	0	0	1	1
68	Ranau	0	0	0	0	2	2
69	Sandakan	12	12	0	0	4	4
70	Semporna	0	0	0	0	1	1
71	Tawau	10	5	0	0	7	7
72	Sipitang	0	0	0	0	1	1
73	Tambunan	0	0	0	0	1	1
74	Kinabatangan	0	0	0	0	1	0
75	Kota Marudu	0	0	0	0	2	2
76	Kudat	0	0	0	0	2	2
77	Kunak	0	0	0	0	1	1
78	Pitas	0	0	0	0	1	1
79	Tenom	0	0	0	0	1	1
80	Papar	0	0	0	0	2	0
TOTAL		558	502	166	104	461	379

Table 21: Program Anestisiologi key performance indicators, 2011

No.	HOSPITAL	Patients awaiting Emergency Surgery for more than 24 hours ≤ 1 (all OT) (%)	Elective and Emergency Surgery Patients who receive Acute Pain Service ($\geq 10\%$)	Patients Undergoing Elective Surgery who are assessed in the Anaesthetic Clinic ($\geq 30\%$)	Incidence of intubation's in the Recovery room ($\leq 0.3\%$)	Ventilator Care Bundle (VCB) Compliance ($\geq 80\%$)	Department Mortality and Morbidity (Meetings (number of times) (6 times/ 6 months)	Total Number of Patient Visit (By the Acute Pain Service) per Acute Pain Nurse ≥ 300 times/month
1	Kangar	0.0	11.5	11.8	0.00	100.0	12.0	342.5
2	Alor Setar	0.0	12.7	28.1	0.00	97.1	15.0	360.0
3	Sungai Petani	0.2	9.3	65.7	0.04	95.0	12.0	511.0
4	Kulim	0.0	23.7	1.8	0.00	86.0	11.0	100.0
5	Pulau Pinang	0.8	13.0	48.4	0.00	93.0	12.0	1222.0
6	Seberang Jaya	1.8	29.6	39.4	0.00	98.7	12.0	500.0
7	Bukit Mertajam	NA	23.5	NA	0.08	NA	12.0	NA
8	Kepala Batas	NA	NA	NA	NA	100.0	NA	NA
9	Ipoh	0.1	24.2	52.8	0.01	98.7	12.0	4653.0
10	Taiping	2.3	29.2	9.9	0.00	98.1	12.0	454.0
11	Teluk Intan	0.0	30.0	69.0	0.02	98.1	12.0	3934.0
12	Seri Manjung	0.0	11.3	43.8	0.00	100.0	12.0	451.0
13	Slim River	0.0	7.5	69.1	0.00	100.0	12.0	NA
14	Tengku Ampuan Rahimah, Kelang	0.6	36.0	36.7	0.00	94.5	12.0	484.4
15	Ampang	0.0	24.4	82.1	0.00	96.2	11.0	337.3
16	Sungai Buloh	0.0	36.3	10.7	0.00	95.5	12.0	3321.0
17	Selayang	1.0	17.5	65.1	0.02	96.0	13.0	5219.0
18	Serdang	1.0	11.3	4.6	0.02	95.0	16.0	319.0
19	Kajang	0.0	22.5	32.2	0.02	85.3	12.0	NA
20	Kuala Lumpur	0.0	24.5	45.3	0.00	94.7	16.0	366.1
21	Putrajaya	0.0	21.2	15.3	0.05	100.0	NA	5514.0
22	Labuan	NA	NA	NA	NA	100.0	NA	NA
23	TuanKu Jaafar, Seremban	0.4	10.4	53.4	0.01	100.0	12.0	3396.0
24	TuanKu Ampuan Najihah, Kuala Pilah	0.0	10.1	19.0	0.08	95.3	NA	NA
25	Port Dickson	0.0	NA	100.0	0.00	100.0	12.0	NA
26	Melaka	0.0	52.9	94.8	0.03	98.1	18.0	730.0
27	Sultanah Aminah, Johor Bahru	0.3	35.7	96.0	0.03	99.8	12.0	3409.0
28	Sultan Ismail, Johor Bahru	0.0	42.8	99.0	0.04	81.8	10.0	675.0
29	Muar	0.0	14.7	20.2	0.00	93.9	12.0	2004.0
30	Tengku Ampuan Afzan, Kuantan	0.5	31.0	46.3	0.02	98.2	12.0	414.0
31	Temerloh	0.0	42.1	39.8	0.00	93.1	12.0	541.0
32	Kuala Lipis	0.0	21.0	NA	0.00	NA	NA	NA
33	Raja Perempuan Zainab II, Kota Bharu	0.5	44.0	49.7	0.01	97.0	NA	321.1
34	Kuala Krai	0.0	52.3	14.5	0.00	90.5	NA	92.9
35	Tanah Merah	0.0	42.9	45.3	0.11	NA	0.0	NA
36	Sultanah Nur Zahirah, Kuala Terengganu	0.0	31.6	57.1	0.04	98.0	15.0	373.0
37	Umum Sarawak, Kuching	8.4	14.5	6.2	0.08	90.5	19.0	3120.3
38	Sibu	0.0	8.5	0.0	0.00	98.8	0.0	269.0
39	Bintulu	0.0	69.7	0.3	0.03	100.0	11.0	0.0
40	Miri	0.2	36.6	51.0	0.02	93.5	12.0	5680.0
41	Queen Elizabeth	0.4	20.5	19.1	0.06	96.8	12.0	5382.0
42	Likas	0.0	22.5	NA	0.00	100.0	12.0	2940.0
43	Keningau	0.0	10.6	32.7	0.00	100.0	12.0	NA
44	Kemaman	0	31.15	NA	0	100	6	97.26
National Standard		< 1%	> 10%	> 30%	< 0.3%	> 80%	6 times in 6 months	> 300 visits