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Appendices

Appendix 1 Regional and General Hospitals in 1997

Number	Hospitals	Type of hospital
CENTRAL REGION		
1	Pharungklao Nonthaburi Hospital	General Hospital
2	Pathumthani Hospital	General Hospital
3	Phranakhonsiyuttaya Hospital	Regional Hospital
4	Sena Phranakhonsiyuttaya Hospital	General Hospital
5	Angthong Hospital	General Hospital
6	Samutprakan Hospital	General Hospital
7	Saraburi Hospital	Regional Hospital
8	Pharphuthabat Saraburi Hospital	General Hospital
9	Choaphrayayomrat Suphanburi hospital	Regional Hospital
10	Sumdetphrasungkharat 17 Hospital	General Hospital
11	Singburi Hospital	General Hospital
12	Inburi Singburi Hospital	General Hospital
13	Lopburi Hospital	General Hospital
14	Bunmei Lopburi Hospital	General Hospital
15	Nakhonnayok Hospital	General Hospital
16	Chainat Hospital	General Hospital
17	Chonburi Hospital	Regional Hospital
18	Choaphrayaapaiphubet Hospital	General Hospital
19	Sumdetphrayuparat Sakaeo Hospital	General Hospital
20	Pharpokklao Chanthaburi Hospital	Regional Hospital
21	Moung Chachoengsao Hospital	General Hospital
22	Trat Hospital	General Hospital
23	Rayong Hospital	General Hospital
24	Ratchaburi Hospital	Regional Hospital

(continued)

Number	Hospitals	Type of hospital
25	Bunphong Ratchaburi Hospital	General Hospital
26	Potharam Ratchaburi Hospital	General Hospital
27	Dumnoensaduk Ratchaburi Hospital	General Hospital
28	Nakhonpathom Hospital	Regional Hospital
29	Phahonphonphayahasena Kanchanaburi Hospital	General Hospital
30	Makaruk Kanchanaburi Hospital	General Hospital
31	Pharjomklao Phetchaburi Hospital	General Hospital
32	Prachuapkhirikhan Hospital	General Hospital
33	Samutsakhon Hospital	General Hospital
34	Sumdetphraputhaloenla Samutsongkhram Hospital	General Hospital
NORTHEASTERN REGION		
35	Chaiyaphum Hospital	General Hospital
36	Buriram Hospital	Regional Hospital
37	Surin Hospital	Regional Hospital
38	Maharat Nakhonratchasima Hospital	Regional Hospital
39	Sisaket Hospital	General Hospital
40	Loei Hospital	General Hospital
41	Nongkhai Hospital	General Hospital
42	Khonkaen Hospital	Regional Hospital
43	Udonthani Hospital	Regional Hospital
44	Nongbualamphu Hospital	General Hospital
45	Sakhonnakhon Hospital	Regional Hospital
46	Yasothon Hospital	General Hospital
47	Sanpasitprasung Hospital	Regional Hospital
48	Amnatcharoen Hospital	General Hospital
49	Nakhonphanom Hospital	General Hospital

(continued)

Number	Hospitals	Type of hospital
50	Mukdahan Hospital	General Hospital
51	Kalasin Hospital	General Hospital
52	Roi Et Hospital	Regional Hospital
53	Mahasarakham Hospital	General Hospital
54	Uthaithani Hospital	General Hospital
NORTHERN REGION		
55	Sawanpracharuk Nakhonsawan Hospital	Regional Hospital
56	Sumdetphrachaotaksinmaharat Hospital	General Hospital
57	Maesod Tak Hospital	General Hospital
58	Kamphaengphet Hospital	General Hospital
59	Sukhothai Hospital	General Hospital
60	Srisungwon Sukhothai Hospital	General Hospital
61	Phuthachinarat phetsanulok Hospital	Regional Hospital
62	Phetchabun Hospital	General Hospital
63	Phrae Hospital	General Hospital
64	Nan Hospital	General Hospital
65	Phichit Hospital	General Hospital
66	Uttaradit Hospital	Regional Hospital
67	Lampang Hospital	Regional Hospital
68	Chiangraiprachanukhrau Hospital	Regional Hospital
69	Nakhonping Chiangmai Hospital	General Hospital
70	Srisungwan Maehongson Hospital	General Hospital
71	Lamphun Hospital	General Hospital
72	Phayao Hospital	General Hospital
73	Chaikhum Phayao Hospital	General Hospital

(continued)



Number	Hospitals	Type of hospital
SOUTHERN REGION		
74	Suratthani Hospital	Regional Hospital
75	Kao Samui Suratthani Hospital	General Hospital
76	Chumphon Hospital	General Hospital
77	Ranong Hospital	General Hospital
78	Maharat Nakhonsithammarat Hospital	Regional Hospital
79	Phangnga Hospital	General Hospital
80	Takuapha Phangnga Hospital	General Hospital
81	VicharaPhuket Phuket Hospital	General Hospital
82	Krabi Hospital	General Hospital
83	Narathiwat Hospital	General Hospital
84	Suhaikolok Narathiwat Hospital	General Hospital
85	Pattani Hospital	General Hospital
86	Yala Hospital	Regional Hospital
87	Batong Yala Hospital	General Hospital
88	Trang Hospital	General Hospital
89	Phatthalung Hospital	General Hospital
90	Satun Hospital	General Hospital
91	Songkhla	Regional Hospital
92	Hadyai Songkhla Hospital	Regional Hospital
	Total	Regional =25 General =67

Appendix 2 Comparison of Weighted Population Value in Equations 3.1 to 3.6

Number	Hospital	Equation 3.1 (Input)	Equation 3.2 (Output)	Equation 3.3 (Input+ RR)	Equation 3.4 (Output+ RR)	Equation 3.5 (Input+ SSR)	Equation 3.6 (Output+ SSR)
CENTRAL REGION							
1	Phranungklao Nonthaburi Hospital	797,305.41	802,248.25	800,330.54	805,292.13	779,183.59	784,014.09
2	Pathumthani Hospital	574,163.63	574,540.33	574,378.23	574,755.08	569,143.62	569,517.03
3	Phranakhonsriyuttaya Hospital	361,491.08	363,813.69	362,974.33	365,306.47	357,300.05	359,595.73
4	Sena Phranakhonsriyuttaya Hospital	361,426.93	363,315.68	361,622.34	363,512.10	356,689.81	358,553.80
5	Angthong Hospital	292,476.24	293,447.42	293,383.85	294,358.05	290,981.08	291,947.29
6	Samutprakan Hospital	954,537.69	960,542.68	957,611.73	963,636.06	942,169.80	948,096.99
7	Saraburi Hospital	293,181.40	294,210.69	294,889.41	295,924.69	280,216.69	281,200.46
8	Phraphuthabat Saraburi Hospital	295,149.06	297,260.28	295,958.32	298,075.33	290,483.10	292,560.94
9	Chaophrayayomrat Suphanburi hospital	432,550.52	435,069.25	437,278.99	439,825.24	427,763.88	430,254.73
10	Somdetphrasungkharat 17 Hospital	434,489.20	434,930.85	434,678.57	435,120.41	433,859.01	434,300.02
11	Singburi Hospital	112,589.80	113,302.87	112,895.86	113,610.87	111,950.13	112,659.15
12	Inburi Singburi Hospital	112,606.19	113,053.36	113,082.05	113,531.11	112,450.01	112,896.56
13	Lopburi Hospital	381,660.25	383,841.25	383,148.35	385,337.85	377,650.83	379,808.91
14	Banme Lopburi Hospital	382,742.24	384,397.22	383,261.15	384,918.37	380,378.40	382,023.17
15	Nakhonnayok Hospital	244,245.59	244,133.16	245,773.95	245,660.82	243,145.86	243,033.94

(continued)

Number	Hospital	Equation 3.1 (Input)	Equation 3.2 (Output)	Equation 3.3 (Input+ RR)	Equation 3.4 (Output+ RR)	Equation 3.5 (Input+ SSR)	Equation 3.6 (Output+ SSR)
16	Chainat Hospital	358,930.78	358,006.29	361,345.58	360,414.87	357,060.94	356,141.27
17	Chonburi Hospital	1,014,318.60	1,007,504.73	1,028,220.00	1,021,312.75	973,810.37	967,268.63
18	Chaophrayaapaiphubet Hospital	441,651.44	444,191.37	445,572.39	448,134.87	439,662.87	442,191.37
19	Somdetphrayuparat Sakaew Hospital	530,280.55	533,721.06	531,363.70	534,811.24	527,355.74	530,777.27
20	Phrapokklao Chanthaburi Hospital	490,632.35	488,393.77	499,800.05	497,519.64	484,296.90	482,087.23
21	Muang Chachoengsao Hospital	635,508.71	639,501.45	640,732.63	644,758.19	619,046.16	622,935.48
22	Trat Hospital	219,046.05	220,560.47	221,243.90	222,773.52	218,247.77	219,756.68
23	Rayong Hospital	490,807.96	493,777.33	494,357.08	497,347.92	473,387.54	476,251.51
24	Ratchaburi Hospital	201,912.20	202,980.63	203,816.44	204,894.94	199,032.05	200,085.24
25	Banpong Ratchaburi Hospital	203,726.78	204,707.46	203,979.66	204,961.56	202,144.59	203,117.65
26	Potharam Ratchaburi Hospital	203,459.25	204,301.62	203,828.25	204,672.15	202,274.28	203,111.74
27	Dumnoensaduk Ratchaburi Hospital	203,793.70	204,691.06	204,003.66	204,901.95	203,557.33	204,453.65
28	Nakhonpathom Hospital	763,975.48	764,551.83	768,953.06	769,533.17	758,264.79	758,836.84
29	Phahonphonphayuhasena Kanchanaburi Hospital	383,917.18	386,843.02	385,644.94	388,583.95	381,706.98	384,615.98
30	Makaruk Kanchanaburi Hospital	384,851.46	387,021.09	385,311.65	387,483.88	382,300.00	384,455.25
31	Pharjomklao Phetchaburi Hospital	461,086.12	461,996.44	464,618.73	465,536.02	456,886.04	457,788.06
32	Prachuapkhirikhan Hospital	472,324.87	476,348.16	474,617.91	478,660.74	464,893.30	468,853.29
33	Samutsakhon Hospital	394,043.62	396,230.42	394,249.60	396,437.54	377,698.13	379,794.21

(continued)

Number	Hospital	Equation 3.1 (Input)	Equation 3.2 (Output)	Equation 3.3 (Input+ RR)	Equation 3.4 (Output+ RR)	Equation 3.5 (Input+ SSR)	Equation 3.6 (Output+ SSR)
34	Somdetphraputhaloenla Samutsongkhram Hospital	208,309.76	209,984.21	209,069.67	210,750.24	206,748.48	208,410.39
NORTHEASTERN REGION							
35	Chaiyaphum Hospital	122,040.92	121,863.79	124,070.69	123,890.61	121,444.81	121,268.55
36	Buriram Hospital	1,613,799.36	1,597,521.98	1,633,038.84	1,616,567.40	1,605,069.89	1,588,880.55
37	Surin Hospital	1,484,571.72	1,459,342.15	1,500,356.12	1,474,858.31	1,482,455.94	1,457,262.33
38	Maharat Nakhonratchasima Hospital	2,842,769.05	2,745,553.71	3,000,187.69	2,897,589.05	2,700,009.01	2,607,675.70
39	Sisaket Hospital	1,538,543.10	1,519,871.68	1,555,041.40	1,536,169.75	1,532,753.21	1,514,152.05
40	Loei Hospital	647,315.41	648,421.30	662,429.30	663,561.02	644,746.21	645,847.72
41	Nongkhai Hospital	929,040.59	927,093.59	934,608.01	932,649.34	923,935.18	921,998.87
42	Khonkaen Hospital	1,873,758.68	1,847,632.34	1,952,781.37	1,925,553.19	1,823,517.18	1,798,091.36
43	Udonthani Hospital	1,599,399.24	1,575,350.35	1,635,245.12	1,610,657.25	1,575,990.45	1,552,293.55
44	Nongbualamphu Hospital	497,896.54	499,712.44	502,619.67	504,452.80	496,664.66	498,476.07
45	Sakhonnakhon Hospital	1,140,609.65	1,124,675.56	1,153,190.01	1,137,080.18	1,132,606.96	1,116,784.67
46	Yasothon Hospital	565,946.12	567,909.16	575,866.21	577,863.66	564,403.00	566,360.68
47	Sanpasitprasong Hospital	1,889,886.89	1,860,304.35	1,965,179.48	1,934,418.39	1,858,742.21	1,829,647.18
48	Amnatcharoen Hospital	366,651.20	368,000.26	368,034.25	369,388.40	366,157.46	367,504.70
49	Nakhonphanom Hospital	732,096.96	727,838.98	754,393.43	750,005.76	729,580.30	725,336.96
50	Mukdahan Hospital	330,864.39	331,201.36	332,211.47	332,549.82	329,874.53	330,210.49

(continued)

Number	Hospital	Equation 3.1 (Input)	Equation 3.2 (Output)	Equation 3.3 (Input+ RR)	Equation 3.4 (Output+ RR)	Equation 3.5 (Input+ SSR)	Equation 3.6 (Output+ SSR)
51	Kalasin Hospital	1,020,737.80	1,013,905.63	1,033,374.28	1,026,457.53	1,014,555.71	1,007,764.92
52	Roi Et Hospital	1,404,967.01	1,386,700.29	1,431,760.12	1,413,145.05	1,394,363.70	1,376,234.84
53	Mahasarakham Hospital	948,490.44	945,678.02	952,636.01	949,811.29	944,377.49	941,577.26
NORTHERN REGION							
54	Uthaithani Hospital	333,377.61	333,597.69	336,682.63	336,904.88	332,057.79	332,277.00
55	Sawanpracharuk Nakhonsawan Hospital	1,190,307.14	1,179,322.77	1,210,654.10	1,199,481.97	1,175,898.98	1,165,047.58
56	Somdetphrachaotaksinmaharat Hospital	236,630.59	240,128.09	238,055.16	241,573.72	235,480.59	238,961.09
57	Maesod Tak Hospital	236,892.91	238,461.73	237,822.44	239,397.41	236,566.56	238,133.21
58	Kamphaengphet Hospital	790,232.40	791,867.85	797,364.66	799,014.87	785,798.78	787,425.06
59	Sukhothai Hospital	317,498.34	319,185.09	318,801.51	320,495.19	316,311.12	317,991.57
60	Srisungwon Sukhothai Hospital	318,371.94	319,736.53	319,096.02	320,463.71	317,274.27	318,634.16
61	Phuthachinarat phetsanulok Hospital	886,796.41	878,717.93	891,304.66	883,185.11	867,422.36	859,520.37
62	Phetchabun Hospital	1,090,586.69	1,079,821.22	1,094,712.56	1,083,906.36	1,080,543.96	1,069,877.62
63	Phrae Hospital	510,994.19	508,423.71	514,718.88	512,129.67	508,896.09	506,336.16
64	Nan Hospital	495,090.22	494,697.68	509,146.98	508,743.30	492,809.06	492,418.33
65	Phichit Hospital	614,703.98	618,410.91	626,997.12	630,778.19	611,131.88	614,817.27
66	Uttaradit Hospital	489,946.43	490,590.74	500,586.58	501,244.88	486,408.56	487,048.22
67	Lampang Hospital	840,575.87	829,333.77	897,626.36	885,621.25	829,278.93	818,187.92

(continued)

Number	Hospital	Equation 3.1 (Input)	Equation 3.2 (Output)	Equation 3.3 (Input+ RR)	Equation 3.4 (Output+ RR)	Equation 3.5 (Input+ SSR)	Equation 3.6 (Output+ SSR)
68	Chiangraiprachanukhrau Hospital	1,362,216.28	1,324,862.26	1,451,133.14	1,411,340.88	1,339,042.77	1,302,324.20
69	Nakhonping Chiangmai Hospital	1,726,261.17	1,664,124.24	1,756,667.25	1,693,435.85	1,701,591.81	1,640,342.86
70	Srisungwan Maehongson Hospital	230,448.66	231,756.46	230,851.04	232,161.12	230,054.80	231,360.36
71	Lamphun Hospital	417,929.00	415,961.30	423,574.36	421,580.08	414,851.79	412,898.57
72	Phayao Hospital	263,754.29	263,720.31	266,772.50	266,738.14	262,319.38	262,285.59
73	Cheangkhum Phayao Hospital	263,356.32	263,569.99	266,064.88	266,280.74	263,134.97	263,348.46
SOUTHERN REGION							
74	Suratthani Hospital	432,911.36	435,705.46	439,962.21	442,801.81	418,664.13	421,366.27
75	Kao Samui Suratthani Hospital	435,649.76	436,064.32	435,711.05	436,125.66	433,952.83	434,365.77
76	Chumphon Hospital	458,656.45	459,330.09	461,288.62	461,966.13	452,518.08	453,182.70
77	Ranong Hospital	153,053.38	154,207.56	153,349.34	154,505.74	152,334.28	153,483.03
78	Maharat Nakhonsrithammarat Hospital	1,608,154.59	1,592,763.31	1,654,612.32	1,638,776.40	1,570,950.58	1,555,915.37
79	Phangnga Hospital	115,523.92	116,156.04	116,712.06	117,350.67	115,243.72	115,874.30
80	Takuapha Phangnga Hospital	115,461.09	116,379.27	116,170.84	117,094.67	115,181.03	116,096.99
81	WicharaPhuket Phuket Hospital	222,381.51	223,991.92	223,221.90	224,838.39	216,945.10	218,516.14
82	Krabi Hospital	350,019.99	351,464.21	351,897.89	353,349.85	346,861.92	348,293.11
83	Narathiwat Hospital	327,722.79	331,026.81	328,955.84	332,272.29	326,214.12	329,502.93
84	Suhaikolok Narathiwat Hospital	328,056.40	330,761.48	328,785.76	331,496.86	327,114.03	329,811.34

(continued)

Number	Hospital	Equation 3.1 (Input)	Equation 3.2 (Output)	Equation 3.3 (Input+ RR)	Equation 3.4 (Output+ RR)	Equation 3.5 (Input+ SSR)	Equation 3.6 (Output+ SSR)
85	Pattani Hospital	608,042.02	609,026.06	612,618.34	613,609.79	607,392.70	608,375.69
86	Yala Hospital	212,469.51	214,767.69	214,731.48	217,054.12	210,141.60	212,414.59
87	Betong Yala Hospital	214,055.00	215,220.33	214,414.88	215,582.17	213,772.58	214,936.37
88	Trang Hospital	592,108.98	596,096.14	599,672.70	603,710.80	580,291.51	584,199.09
89	Phatthalung Hospital	511,689.20	512,637.60	515,977.89	516,934.24	509,185.99	510,129.76
90	Satun Hospital	256,339.22	258,190.04	258,508.57	260,375.05	255,335.11	257,178.67
91	Songkhla hospital	606,106.21	605,481.07	609,847.90	609,218.90	593,543.35	592,931.17
92	Hadyai Songkhla Hospital	599,115.79	601,242.52	605,564.27	607,713.88	574,067.80	576,105.61
	Total	56,406,064.79	56,058,798.53	57,369,656.74	57,008,277.28	55,629,572.94	55,290,677.52

Appendix 3 Comparison between Expected and Actual Budget in Equation 3.1

Number	Hospital	EB(Input) (Baht / hospital / year)	AB (Baht / hospital / year)	EB(Input) (Baht/person/year)	AB (Baht / person)	RR (EB / AB)
CENTRAL REGION						
1	Phranungklao Nonthaburi Hospital	198,495,810.32	139,986,558	247.89	174.82	1.42
2	Pathumthani Hospital	142,942,808.63	122,927,362	241.32	207.53	1.16
3	Phranakhonsriyuttaya Hospital	89,996,209.70	130,902,336	249.47	362.86	0.69
4	Sena Phranakhonsriyuttaya Hospital	89,980,239.47	68,893,969	249.43	190.98	1.31
5	Angthong Hospital	72,814,391.31	106,485,343	251.61	367.96	0.68
6	Samutprakan Hospital	237,640,093.91	135,187,331	248.51	141.37	1.76
7	Saraburi Hospital	72,989,948.34	188,863,405	244.71	633.20	0.39
8	Phraphuthabat Saraburi Hospital	73,479,813.52	133,679,436	246.36	448.19	0.55
9	Chaophrayayomrat Suphanburi hospital	107,687,048.94	143,390,269	252.40	336.08	0.75
10	Somdetphrasungkharat 17 Hospital	108,169,699.42	102,718,087	253.53	240.75	1.05
11	Singburi Hospital	28,030,165.94	103,705,064	249.07	921.50	0.27
12	Inburi Singburi Hospital	28,034,247.59	73,804,874	249.10	655.81	0.38
13	Lopburi Hospital	95,017,493.37	121,690,307	251.21	321.73	0.78
14	Banme Lopburi Hospital	95,286,862.94	120,732,589	251.92	319.19	0.79
15	Nakhonnayok Hospital	60,806,970.15	126,157,376	251.33	521.44	0.48

(continued)

Number	Hospital	EB(Input)	AB	EB(Input)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht / person)	(EB / AB)
16	Chainat Hospital	89,358,801.82	119,492,239	253.48	338.95	0.75
17	Chonburi Hospital	252,523,048.32	250,695,017	245.50	243.72	1.01
18	Chaophrayaapaiphubet Hospital	109,952,796.87	147,230,495	251.63	336.95	0.75
19	Somdetphrayuparat Sakaew Hospital	132,017,751.65	73,634,745	253.18	141.22	1.79
20	Phrapokklao Chanthaburi Hospital	122,147,002.77	204,675,871	252.28	422.74	0.60
21	Muang Chachoengsao Hospital	158,215,176.79	148,450,206	252.29	236.72	1.07
22	Trat Hospital	54,533,335.04	104,986,992	247.88	477.21	0.52
23	Rayong Hospital	122,190,722.33	136,080,591	242.14	269.66	0.90
24	Ratchaburi Hospital	50,267,721.84	172,365,627	247.23	847.74	0.29
25	Banpong Ratchaburi Hospital	50,719,475.15	106,502,467	249.45	523.81	0.48
26	Potharam Ratchaburi Hospital	50,652,871.25	78,651,861	249.13	386.83	0.64
27	Dumnoensaduk Ratchaburi Hospital	50,736,136.44	72,011,411	249.53	354.17	0.70
28	Nakhonpathom Hospital	190,198,046.54	203,403,387	252.39	269.91	0.94
29	Phahonphonphayuhasena Kanchanaburi Hospital	95,579,374.35	126,810,121	249.44	330.94	0.75
30	Makaruk Kanchanaburi Hospital	95,811,970.61	80,541,872	250.05	210.20	1.19
31	Pharjomklao Phetchaburi Hospital	114,791,224.26	154,349,863	253.18	340.43	0.74
32	Prachuapkhirikhan Hospital	117,589,202.57	130,215,076	250.79	277.72	0.90
33	Samutsakhon Hospital	98,100,436.02	119,801,838	240.95	294.25	0.82

(continued)

Number	Hospital	EB(Input)	AB	EB(Input)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht / person)	
34	Somdetphraputhaloenla Samutsongkhram Hospital	51,860,445.77	99,999,684	249.68	481.45	0.52
NORTHEASTERN REGION						
35	Chaiyaphum Hospital	30,383,102.44	206,473,315	263.01	1,787.35	0.15
36	Buriram Hospital	401,768,769.13	236,241,200	268.77	158.04	1.70
37	Surin Hospital	369,596,471.59	241,951,718	270.24	176.91	1.53
38	Maharat Nakhonratchasima Hospital	707,730,989.89	439,248,599	281.87	174.94	1.61
39	Sisaket Hospital	383,033,097.46	254,323,877	269.26	178.78	1.51
40	Loei Hospital	161,154,552.30	146,911,108	255.45	232.87	1.10
41	Nongkhai Hospital	231,292,379.55	167,449,572	260.26	188.42	1.38
42	Khonkaen Hospital	466,487,802.83	358,289,996	270.18	207.51	1.30
43	Udonthani Hospital	398,183,738.09	287,556,872	266.96	192.79	1.38
44	Nongbualamphu Hospital	123,955,483.25	68,989,588	254.97	141.91	1.80
45	Sakhonnakhon Hospital	283,964,254.77	208,382,693	263.61	193.45	1.36
46	Yasothon Hospital	140,896,992.71	145,345,634	256.43	264.52	0.97
47	Sanpasitprasong Hospital	470,503,054.07	373,805,896	271.79	215.93	1.26
48	Amnatcharoen Hospital	91,280,863.82	66,412,188	253.32	184.30	1.37
49	Nakhonphanom Hospital	182,261,624.68	175,352,118	258.92	249.10	1.04
50	Mukdahan Hospital	82,371,439.84	104,621,186	252.53	320.74	0.79

(continued)

Number	Hospital	EB(Input) (Baht / hospital / year)	AB (Baht / hospital / year)	EB(Input) (Baht/person/year)	AB (Baht / person)	RR (EB / AB)
51	Kalasin Hospital	254,121,162.05	177,654,854	260.78	182.31	1.43
52	Roi Et Hospital	349,778,217.94	220,556,093	266.99	168.35	1.59
53	Maharakham Hospital	236,134,581.54	191,624,871	254.52	206.55	1.23
NORTHERN REGION						
54	Uthaitani Hospital	82,997,128.20	121,558,435	252.29	369.50	0.68
55	Sawanpracharuk Nakhonsawan Hospital	296,336,859.27	257,673,918	261.80	227.65	1.15
56	Somdetphrachaotaksinmaharat Hospital	58,911,153.22	96,163,103	249.84	407.82	0.61
57	Maesod Tak Hospital	58,976,460.27	89,301,770	250.11	378.72	0.66
58	Kamphaengphet Hospital	196,734,925.67	115,757,495	256.82	151.11	1.70
59	Sukhothai Hospital	79,043,850.42	97,180,473	252.10	309.94	0.81
60	Srisungwon Sukhothai Hospital	79,261,342.16	88,313,305	252.79	281.66	0.90
61	Phuthachinarat phetsanulok Hospital	220,775,339.15	284,538,676	255.11	328.79	0.78
62	Phetchabun Hospital	271,510,624.07	143,763,199	260.84	138.11	1.89
63	Phrae Hospital	127,216,252.76	167,222,236	257.19	338.07	0.76
64	Nan Hospital	123,256,825.47	166,828,811	254.60	344.61	0.74
65	Phichit Hospital	153,035,665.46	142,110,338	254.59	236.41	1.08
66	Uttaradit Hospital	121,976,236.89	179,988,730	253.29	373.76	0.68
67	Lampang Hospital	209,268,351.87	269,702,746	259.20	334.05	0.78

(continued)

Number	Hospital	EB(Input)	AB	EB(Input)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht / person)	(EB / AB)
68	Chiangraiprachanukhrau Hospital	339,135,069.93	270,300,383	268.91	214.33	1.25
69	Nakhonping Chiangmai Hospital	429,767,069.80	220,203,713	273.08	139.92	1.95
70	Srisungwan Maehongson Hospital	57,372,109.07	88,742,604	250.22	387.04	0.65
71	Lamphun Hospital	104,046,900.12	126,449,104	254.52	309.31	0.82
72	Phayao Hospital	65,663,823.27	131,948,968	253.71	509.83	0.50
73	Cheangkhum Phayao Hospital	65,564,746.61	89,007,754	253.33	343.91	0.74
SOUTHERN REGION						
74	Suratthani Hospital	107,776,882.46	200,189,731	250.29	464.89	0.54
75	Kao Samui Suratthani Hospital	108,458,630.44	77,077,851	251.87	178.99	1.41
76	Chumphon Hospital	114,186,336.64	131,509,658	254.83	293.49	0.87
77	Ranong Hospital	38,103,912.66	87,917,151	250.90	578.91	0.43
78	Maharat Nakhonsrithammarat Hospital	400,363,456.49	337,923,957	264.82	223.52	1.18
79	Phangnga Hospital	28,760,640.90	66,677,938	250.41	580.56	0.43
80	Takuapha Phangnga Hospital	28,744,997.88	75,139,536	250.28	654.23	0.38
81	WicharaPhuket Phuket Hospital	55,363,726.38	115,121,901	249.57	518.95	0.48
82	Krabi Hospital	87,140,387.07	94,744,581	252.87	274.93	0.92
83	Narathiwat Hospital	81,589,314.44	127,808,230	252.26	395.16	0.64
84	Suhaikolok Narathiwat Hospital	81,672,369.23	82,493,444	252.52	255.05	0.99

(continued)

Number	Hospital	EB(Input)	AB	EB(Input)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht / person)	(EB / AB)
85	Pattani Hospital	151,377,116.69	127,703,732	256.25	216.18	1.19
86	Yala Hospital	52,896,052.09	139,656,274	252.61	666.95	0.38
87	Betong Yala Hospital	53,290,772.40	67,151,896	254.50	320.69	0.79
88	Trang Hospital	147,410,454.18	149,673,535	255.89	259.82	0.98
89	Phatthalung Hospital	127,389,280.08	130,557,670	255.39	261.74	0.98
90	Satun Hospital	63,817,780.91	84,936,010	252.07	335.48	0.75
91	Songkhla hospital	150,895,179.41	180,010,162	253.34	302.23	0.84
92	Hadyai Songkhla Hospital	149,154,857.16	199,494,738	250.42	334.94	0.75
	Total	14,042,758,803.00	14,042,758,803	259.04	259.04	1.00

Appendix 4 Comparison between Expected and Actual Budget in Equation 3.2

Number	Hospital	EB(Output) (Baht / hospital / year)	AB (Baht / hospital / year)	EB(Output) (Baht/person/year)	AB (Baht / person)	RR (EB / AB)
CENTRAL REGION						
1	Phranungklao Nonthaburi Hospital	200,963,612.22	139,986,558	250.97	174.82	1.44
2	Pathumthani Hospital	143,922,658.72	122,927,362	242.98	207.53	1.17
3	Phranakhonsriyuttaya Hospital	91,135,523.09	130,902,336	252.63	362.86	0.70
4	Sena Phranakhonsriyuttaya Hospital	91,010,769.54	68,893,969	252.28	190.98	1.32
5	Angthong Hospital	73,508,733.86	106,485,343	254.01	367.96	0.69
6	Samutprakan Hospital	240,616,452.13	135,187,331	251.62	141.37	1.78
7	Saraburi Hospital	73,699,933.38	188,863,405	247.09	633.20	0.39
8	Phraphuthabat Saraburi Hospital	74,463,857.96	133,679,436	249.66	448.19	0.56
9	Chaophrayayomrat Suphanburi hospital	108,985,077.23	143,390,269	255.44	336.08	0.76
10	Somdetphrasungkharat 17 Hospital	108,950,408.96	102,718,087	255.36	240.75	1.06
11	Singburi Hospital	28,382,428.25	103,705,064	252.20	921.50	0.27
12	Inburi Singburi Hospital	28,319,926.51	73,804,874	251.64	655.81	0.38
13	Lopburi Hospital	96,152,436.77	121,690,307	254.21	321.73	0.79
14	Banme Lopburi Hospital	96,291,708.76	120,732,589	254.58	319.19	0.80
15	Nakhonnayok Hospital	61,155,487.46	126,157,376	252.77	521.44	0.48

(continued)

Number	Hospital	EB(Output)	AB	EB(Output)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht / person)	(EB / AB)
16	Chainat Hospital	89,680,766.17	119,492,239	254.39	338.95	0.75
17	Chonburi Hospital	252,380,470.75	250,695,017	245.36	243.72	1.01
18	Chaophrayaapaiphubet Hospital	111,270,173.31	147,230,495	254.65	336.95	0.76
19	Somdetphrayuparat Sakaew Hospital	133,697,409.74	73,634,745	256.40	141.22	1.82
20	Phrapokklao Chanthaburi Hospital	122,342,898.70	204,675,871	252.69	422.74	0.60
21	Muang Chachoengsao Hospital	160,195,453.00	148,450,206	255.45	236.72	1.08
22	Trat Hospital	55,250,515.90	104,986,992	251.14	477.21	0.53
23	Rayong Hospital	123,691,482.45	136,080,591	245.11	269.66	0.91
24	Ratchaburi Hospital	50,846,756.00	172,365,627	250.08	847.74	0.29
25	Banpong Ratchaburi Hospital	51,279,327.16	106,502,467	252.21	523.81	0.48
26	Potharam Ratchaburi Hospital	51,177,663.26	78,651,861	251.71	386.83	0.65
27	Dumnoensaduk Ratchaburi Hospital	51,275,219.53	72,011,411	252.19	354.17	0.71
28	Nakhonpathom Hospital	191,520,640.19	203,403,387	254.14	269.91	0.94
29	Phahonphonphayuhasena Kanchanaburi Hospital	96,904,382.49	126,810,121	252.90	330.94	0.76
30	Makaruk Kanchanaburi Hospital	96,948,989.79	80,541,872	253.01	210.20	1.20
31	Pharjomklao Phetchaburi Hospital	115,730,354.17	154,349,863	255.26	340.43	0.75
32	Prachuapkhirikhan Hospital	119,325,466.93	130,215,076	254.49	277.72	0.92
33	Samutsakhon Hospital	99,255,930.56	119,801,838	243.78	294.25	0.83

(continued)

Number	Hospital	EB(Output)	AB	EB(Output)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht / person)	(EB / AB)
34	Somdetphraputhaloenla Samutsongkhram Hospital	52,601,157.22	99,999,684	253.25	481.45	0.53
NORTHEASTERN REGION						
35	Chaiyaphum Hospital	30,526,944.95	206,473,315	264.26	1,787.35	0.15
36	Buriram Hospital	400,180,104.39	236,241,200	267.71	158.04	1.69
37	Surin Hospital	365,565,983.84	241,951,718	267.29	176.91	1.51
38	Maharat Nakhonratchasima Hospital	687,762,663.64	439,248,599	273.92	174.94	1.57
39	Sisaket Hospital	380,728,662.23	254,323,877	267.64	178.78	1.50
40	Loei Hospital	162,429,880.89	146,911,108	257.47	232.87	1.11
41	Nongkhai Hospital	232,237,436.90	167,449,572	261.32	188.42	1.39
42	Khonkaen Hospital	462,832,881.29	358,289,996	268.06	207.51	1.29
43	Udonthani Hospital	394,626,100.54	287,556,872	264.57	192.79	1.37
44	Nongbualamphu Hospital	125,178,231.21	68,989,588	257.49	141.91	1.81
45	Sakhonnakhon Hospital	281,731,825.62	208,382,693	261.54	193.45	1.35
46	Yasothon Hospital	142,261,546.13	145,345,634	258.91	264.52	0.98
47	Sanpasitprasong Hospital	466,007,227.71	373,805,896	269.20	215.93	1.25
48	Amnatcharoen Hospital	92,184,259.43	66,412,188	255.83	184.30	1.39
49	Nakhonphanom Hospital	182,324,049.98	175,352,118	259.01	249.10	1.04
50	Mukdahan Hospital	82,966,116.59	104,621,186	254.35	320.74	0.79

(continued)

Number	Hospital	EB(Output)	AB	EB(Output)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht / person)	(EB / AB)
51	Kalasin Hospital	253,983,899.53	177,654,854	260.64	182.31	1.43
52	Roi Et Hospital	347,369,158.60	220,556,093	265.15	168.35	1.57
53	Mahasarakham Hospital	236,892,845.28	191,624,871	255.34	206.55	1.24
NORTHERN REGION						
54	Uthaihani Hospital	83,566,397.27	121,558,435	254.02	369.50	0.69
55	Sawanpracharuk Nakhonsawan Hospital	295,420,981.38	257,673,918	261.00	227.65	1.15
56	Somdetphrachaotaksinmaharat Hospital	60,152,214.62	96,163,103	255.10	407.82	0.63
57	Maesod Tak Hospital	59,734,789.01	89,301,770	253.33	378.72	0.67
58	Kamphaengphet Hospital	198,363,317.43	115,757,495	258.94	151.11	1.71
59	Sukhothai Hospital	79,956,034.84	97,180,473	255.01	309.94	0.82
60	Srisungwon Sukhothai Hospital	80,094,171.64	88,313,305	255.45	281.66	0.91
61	Phuthachinarat phetsanulok Hospital	220,119,306.89	284,538,676	254.35	328.79	0.77
62	Phetchabun Hospital	270,495,788.94	143,763,199	259.86	138.11	1.88
63	Phrae Hospital	127,360,410.45	167,222,236	257.48	338.07	0.76
64	Nan Hospital	123,922,030.75	166,828,811	255.98	344.61	0.74
65	Phichit Hospital	154,912,260.79	142,110,338	257.71	236.41	1.09
66	Uttaradit Hospital	122,893,240.54	179,988,730	255.20	373.76	0.68
67	Lampang Hospital	207,748,550.89	269,702,746	257.32	334.05	0.77

(continued)

Number	Hospital	EB(Output)	AB	EB(Output)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht / person)	(EB / AB)
68	Chiangraiprachanukhrau Hospital	331,878,699.12	270,300,383	263.16	214.33	1.23
69	Nakhonping Chiangmai Hospital	416,864,005.42	220,203,713	264.88	139.92	1.89
70	Srisungwan Maehongson Hospital	58,055,116.16	88,742,604	253.20	387.04	0.65
71	Lamphun Hospital	104,198,525.82	126,449,104	254.89	309.31	0.82
72	Phayao Hospital	66,062,078.31	131,948,968	255.25	509.83	0.50
73	Cheangkhum Phayao Hospital	66,024,423.28	89,007,754	255.11	343.91	0.74
SOUTHERN REGION						
74	Suratthani Hospital	109,144,448.52	200,189,731	253.46	464.89	0.55
75	Kao Samui Suratthani Hospital	109,234,343.22	77,077,851	253.67	178.99	1.42
76	Chumphon Hospital	115,062,430.81	131,509,658	256.79	293.49	0.87
77	Ranong Hospital	38,629,075.46	87,917,151	254.36	578.91	0.44
78	Maharat Nakhonsrithammarat Hospital	398,988,055.90	337,923,957	263.91	223.52	1.18
79	Phangnga Hospital	29,097,149.28	66,677,938	253.34	580.56	0.44
80	Takuapha Phangnga Hospital	29,153,069.54	75,139,536	253.83	654.23	0.39
81	WicharaPhuket Phuket Hospital	56,110,094.90	115,121,901	252.94	518.95	0.49
82	Krabi Hospital	88,041,971.27	94,744,581	255.48	274.93	0.93
83	Narathiwat Hospital	82,922,392.35	127,808,230	256.38	395.16	0.65
84	Suhaikolok Narathiwat Hospital	82,855,927.22	82,493,444	256.17	255.05	1.00

(continued)

Number	Hospital	EB(Output) (Baht / hospital / year)	AB (Baht / hospital / year)	EB(Output) (Baht/person/year)	AB (Baht / person)	RR (EB / AB)
85	Pattani Hospital	152,561,352.48	127,703,732	258.26	216.18	1.19
86	Yala Hospital	53,799,420.06	139,656,274	256.93	666.95	0.39
87	Betong Yala Hospital	53,912,806.73	67,151,896	257.47	320.69	0.80
88	Trang Hospital	149,322,400.77	149,673,535	259.21	259.82	1.00
89	Phatthalung Hospital	128,415,991.57	130,557,670	257.45	261.74	0.98
90	Satun Hospital	64,676,741.44	84,936,010	255.46	335.48	0.76
91	Songkhla hospital	151,673,328.36	180,010,162	254.65	302.23	0.84
92	Hadyai Songkhla Hospital	150,611,569.80	199,494,738	252.87	334.94	0.75
	Total	14,042,758,803.00	14,042,758,803	259.04	259.04	1.00

Appendix 5 Comparison between Expected and Actual Budget in Equation 3.3

Number	Hospital	EB(Input+RR) (Baht / hospital / year)	AB (Baht / hospital / year)	EB(Input+RR) (Baht/person/year)	AB (Baht/person/year)	RR (EB / AB)
CENTRAL REGION						
1	Phranungklao Nonthaburi Hospital	195,902,318.01	139,986,558	244.65	174.82	1.40
2	Pathumthani Hospital	140,594,442.93	122,927,362	237.36	207.53	1.14
3	Phranakhonsriyuttaya Hospital	88,847,680.30	130,902,336	246.29	362.86	0.68
4	Sena Phranakhonsriyuttaya Hospital	88,516,744.41	68,893,969	245.37	190.98	1.28
5	Angthong Hospital	71,813,549.89	106,485,343	248.15	367.96	0.67
6	Samutprakan Hospital	234,401,097.21	135,187,331	245.12	141.37	1.73
7	Saraburi Hospital	72,182,075.09	188,863,405	242.01	633.20	0.38
8	Phraphuthabat Saraburi Hospital	72,443,719.71	133,679,436	242.88	448.19	0.54
9	Chaophrayayomrat Suphanburi hospital	107,035,734.01	143,390,269	250.87	336.08	0.75
10	Somdetphrasungkharat 17 Hospital	106,399,211.71	102,718,087	249.38	240.75	1.04
11	Singburi Hospital	27,634,283.58	103,705,064	245.55	921.50	0.27
12	Inburi Singburi Hospital	27,679,858.60	73,804,874	245.96	655.81	0.38
13	Lopburi Hospital	93,785,813.03	121,690,307	247.95	321.73	0.77
14	Banme Lopburi Hospital	93,813,422.40	120,732,589	248.02	319.19	0.78
15	Nakhonnayok Hospital	60,159,750.47	126,157,376	248.66	521.44	0.48

(continued)

Number	Hospital	EB(Input+RR)	AB	EB(Input+RR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
16	Chainat Hospital	88,449,001.39	119,492,239	250.89	338.95	0.74
17	Chonburi Hospital	251,684,363.06	250,695,017	244.68	243.72	1.00
18	Chaophrayaapaiphubet Hospital	109,065,767.67	147,230,495	249.60	336.95	0.74
19	Somdetphrayuparat Sakaew Hospital	130,065,486.41	73,634,745	249.44	141.22	1.77
20	Phrapokklao Chanthaburi Hospital	122,339,437.91	204,675,871	252.68	422.74	0.60
21	Muang Chachoengsao Hospital	156,836,458.90	148,450,206	250.09	236.72	1.06
22	Trat Hospital	54,155,364.39	104,986,992	246.16	477.21	0.52
23	Rayong Hospital	121,007,124.86	136,080,591	239.79	269.66	0.89
24	Ratchaburi Hospital	49,889,528.03	172,365,627	245.37	847.74	0.29
25	Banpong Ratchaburi Hospital	49,929,480.83	106,502,467	245.57	523.81	0.47
26	Potharam Ratchaburi Hospital	49,892,419.58	78,651,861	245.39	386.83	0.63
27	Dumnoensaduk Ratchaburi Hospital	49,935,356.18	72,011,411	245.60	354.17	0.69
28	Nakhonpathom Hospital	188,221,839.24	203,403,387	249.76	269.91	0.93
29	Phahonphonphayuhasena Kanchanaburi Hospital	94,396,920.27	126,810,121	246.35	330.94	0.74
30	Makaruk Kanchanaburi Hospital	94,315,338.94	80,541,872	246.14	210.20	1.17
31	Pharjomklao Phetchaburi Hospital	113,727,868.24	154,349,863	250.84	340.43	0.74
32	Prachuapkhirikhan Hospital	116,175,435.43	130,215,076	247.77	277.72	0.89
33	Samutsakhon Hospital	96,503,139.62	119,801,838	237.02	294.25	0.81

(continued)

Number	Hospital	EB(Input+RR) (Baht / hospital / year)	AB (Baht / hospital / year)	EB(Input+RR) (Baht/person/year)	AB (Baht/person/year)	RR (EB / AB)
34	Somdetphraputhaloenia Samutsongkhram Hospital	51,175,396.84	99,999,684	246.38	481.45	0.51
NORTHEASTERN REGION						
35	Chaiyaphum Hospital	30,369,621.30	206,473,315	262.90	1,787.35	0.15
36	Buriram Hospital	399,729,960.28	236,241,200	267.41	158.04	1.69
37	Surin Hospital	367,252,313.21	241,951,718	268.52	176.91	1.52
38	Maharat Nakhonratchasima Hospital	734,376,228.79	439,248,599	292.48	174.94	1.67
39	Sisaket Hospital	380,637,998.49	254,323,877	267.58	178.78	1.50
40	Loei Hospital	162,147,298.38	146,911,108	257.02	232.87	1.10
41	Nongkhai Hospital	228,770,321.19	167,449,572	257.42	188.42	1.37
42	Khonkaen Hospital	477,995,499.64	358,289,996	276.84	207.51	1.33
43	Udonthani Hospital	400,270,005.80	287,556,872	268.36	192.79	1.39
44	Nongbualamphu Hospital	123,029,616.38	68,989,588	253.07	141.91	1.78
45	Sakhonnakhon Hospital	282,274,116.34	208,382,693	262.04	193.45	1.35
46	Yasothon Hospital	140,958,666.29	145,345,634	256.54	264.52	0.97
47	Sanpasitprasong Hospital	481,030,270.62	373,805,896	277.87	215.93	1.29
48	Amnatcharoen Hospital	90,086,232.37	66,412,188	250.00	184.30	1.36
49	Nakhonphanom Hospital	184,657,979.91	175,352,118	262.32	249.10	1.05
50	Mukdahan Hospital	81,317,648.49	104,621,186	249.30	320.74	0.78

(continued)

Number	Hospital	EB(Input+RR)	AB	EB(Input+RR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital / year)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
51	Kalasin Hospital	252,946,009.90	177,654,854	259.58	182.31	1.42
52	Roi Et Hospital	350,461,605.59	220,556,093	267.51	168.35	1.59
53	Maharakham Hospital	233,183,158.21	191,624,871	251.34	206.55	1.22
NORTHERN REGION						
54	Uthaitani Hospital	82,412,083.32	121,558,435	250.51	369.50	0.68
55	Sawanpracharak Nakhonsawan Hospital	296,339,991.08	257,673,918	261.81	227.65	1.15
56	Somdetphrachaotaksinmaharat Hospital	58,270,371.94	96,163,103	247.12	407.82	0.61
57	Maesod Tak Hospital	58,213,407.47	89,301,770	246.88	378.72	0.65
58	Kamphaengphet Hospital	195,176,338.99	115,757,495	254.78	151.11	1.69
59	Sukhothai Hospital	78,035,201.94	97,180,473	248.88	309.94	0.80
60	Srisungwon Sukhothai Hospital	78,107,290.31	88,313,305	249.11	281.66	0.88
61	Phuthachinarat phetsanulok Hospital	218,170,669.11	284,538,676	252.10	328.79	0.77
62	Phetchabun Hospital	267,960,194.60	143,763,199	257.43	138.11	1.86
63	Phrae Hospital	125,991,221.04	167,222,236	254.71	338.07	0.75
64	Nan Hospital	124,627,349.01	166,828,811	257.43	344.61	0.75
65	Phichit Hospital	153,474,325.26	142,110,338	255.32	236.41	1.08
66	Uttaradit Hospital	122,531,962.52	179,988,730	254.45	373.76	0.68
67	Lampang Hospital	219,718,072.51	269,702,746	272.14	334.05	0.81

(continued)

Number	Hospital	EB(Input+RR) (Baht / hospital / year)	AB (Baht / hospital / year)	EB(Input+RR) (Baht/person/year)	AB (Baht/person/year)	RR (EB / AB)
68	Chiangraiprachanukhrau Hospital	355,203,670.89	270,300,383	281.65	214.33	1.31
69	Nakhonping Chiangmai Hospital	429,991,320.38	220,203,713	273.23	139.92	1.95
70	Srisungwan Maehongson Hospital	56,506,969.33	88,742,604	246.45	387.04	0.64
71	Lamphun Hospital	103,681,161.08	126,449,104	253.62	309.31	0.82
72	Phayao Hospital	65,299,708.92	131,948,968	252.31	509.83	0.49
73	Cheangkhum Phayao Hospital	65,126,498.56	89,007,754	251.64	343.91	0.73
SOUTHERN REGION						
74	Suratthani Hospital	107,692,523.86	200,189,731	250.09	464.89	0.54
75	Kao Samui Suratthani Hospital	106,651,939.69	77,077,851	247.67	178.99	1.38
76	Chumphon Hospital	112,912,735.19	131,509,658	251.99	293.49	0.86
77	Ranong Hospital	37,536,353.87	87,917,151	247.16	578.91	0.43
78	Maharat Nakhonsrithammarat Hospital	405,010,645.33	337,923,957	267.89	223.52	1.20
79	Phangnga Hospital	28,568,398.95	66,677,938	248.74	580.56	0.43
80	Takuapha Phangnga Hospital	28,435,922.36	75,139,536	247.59	654.23	0.38
81	WicharaPhuket Phuket Hospital	54,639,533.14	115,121,901	246.31	518.95	0.47
82	Krabi Hospital	86,136,425.39	94,744,581	249.95	274.93	0.91
83	Narathiwat Hospital	80,520,745.95	127,808,230	248.95	395.16	0.63
84	Suhaikolok Narathiwat Hospital	80,479,114.83	82,493,444	248.83	255.05	0.98

(continued)

Number	Hospital	EB(Input+RR) (Baht / hospital / year)	AB (Baht / hospital / year)	EB(Input+RR) (Baht/person/year)	AB (Baht/person/year)	RR (EB / AB)
85	Pattani Hospital	149,954,734.44	127,703,732	253.84	216.18	1.17
86	Yala Hospital	52,561,277.21	139,656,274	251.01	666.95	0.38
87	Betong Yala Hospital	52,483,780.54	67,151,896	250.64	320.69	0.78
88	Trang Hospital	146,785,942.45	149,673,535	254.81	259.82	0.98
89	Phatthalung Hospital	126,299,396.22	130,557,670	253.20	261.74	0.97
90	Satun Hospital	63,276,891.27	84,936,010	249.93	335.48	0.74
91	Songkhla hospital	149,276,593.40	180,010,162	250.63	302.23	0.83
92	Hadyai Songkhla Hospital	148,228,060.10	199,494,738	248.87	334.94	0.74
	Total	14,042,758,803.00	14,042,758,803	259.04	259.04	1.00

Appendix 6 Comparison between Expected and Actual Budget in Equation 3.4

Number	Hospital	EB(Output+RR) (Baht / hospital)	AB (Baht / hospital)	EB(Output+RR) Baht / hospital / yea	AB (Baht/person/year)	RR (EB /AB)
CENTRAL REGION						
1	Phranungklao Nonthaburi Hospital	198,366,338.17	139,986,558	247.73	174.82	1.42
2	Pathumthani Hospital	141,578,509.25	122,927,362	239.02	207.53	1.15
3	Phranakhonsriyuttaya Hospital	89,985,365.04	130,902,336	249.44	362.86	0.69
4	Sena Phranakhonsriyuttaya Hospital	89,543,361.11	68,893,969	248.22	190.98	1.30
5	Angthong Hospital	72,508,752.30	106,485,343	250.55	367.96	0.68
6	Samutprakan Hospital	237,370,946.47	135,187,331	248.23	141.37	1.76
7	Saraburi Hospital	72,894,660.85	188,863,405	244.39	633.20	0.39
8	Phraphuthabat Saraburi Hospital	73,424,423.79	133,679,436	246.17	448.19	0.55
9	Chaophrayayomrat Suphanburi hospital	108,341,456.54	143,390,269	253.93	336.08	0.76
10	Somdetphrasungkharat 17 Hospital	107,182,521.54	102,718,087	251.22	240.75	1.04
11	Singburi Hospital	27,985,586.15	103,705,064	248.67	921.50	0.27
12	Inburi Singburi Hospital	27,965,938.77	73,804,874	248.50	655.81	0.38
13	Lopburi Hospital	94,919,663.76	121,690,307	250.95	321.73	0.78
14	Banme Lopburi Hospital	94,816,334.48	120,732,589	250.68	319.19	0.79
15	Nakhonnayok Hospital	60,513,240.75	126,157,376	250.12	521.44	0.48

(continued)

Number	Hospital	EB(Output+RR)	AB	EB(Output+RR)	AB	RR
		(Baht / hospital)	(Baht / hospital / year)	(Baht/person/year)	(Baht/person/year)	(EB /AB)
16	Chainat Hospital	88,780,426.03	119,492,239	251.84	338.95	0.74
17	Chonburi Hospital	251,578,355.86	250,695,017	244.58	243.72	1.00
18	Chaophrayaapaiphubet Hospital	110,388,355.04	147,230,495	252.63	336.95	0.75
19	Somdetphrayuparat Sakaew Hospital	131,739,208.02	73,634,745	252.65	141.22	1.79
20	Phrapokklao Chanthaburi Hospital	122,553,226.58	204,675,871	253.12	422.74	0.60
21	Muang Chachoengsao Hospital	158,822,266.66	148,450,206	253.26	236.72	1.07
22	Trat Hospital	54,875,448.08	104,986,992	249.43	477.21	0.52
23	Rayong Hospital	122,510,925.95	136,080,591	242.77	269.66	0.90
24	Ratchaburi Hospital	50,471,447.50	172,365,627	248.23	847.74	0.29
25	Banpong Ratchaburi Hospital	50,487,856.80	106,502,467	248.31	523.81	0.47
26	Potharam Ratchaburi Hospital	50,416,566.74	78,651,861	247.96	386.83	0.64
27	Dumnoensaduk Ratchaburi Hospital	50,473,172.76	72,011,411	248.24	354.17	0.70
28	Nakhonpathom Hospital	189,557,888.85	203,403,387	251.54	269.91	0.93
29	Phahonphonphayuhasena Kanchanaburi Hospital	95,719,270.10	126,810,121	249.80	330.94	0.75
30	Makaruk Kanchanaburi Hospital	95,448,292.36	80,541,872	249.10	210.20	1.19
31	Pharjomklao Phetchaburi Hospital	114,674,752.32	154,349,863	252.93	340.43	0.74
32	Prachuapkhirikhan Hospital	117,907,742.39	130,215,076	251.47	277.72	0.91
33	Samutsakhon Hospital	97,653,831.62	119,801,838	239.85	294.25	0.82

(continued)

Number	Hospital	EB(Output+RR)	AB	EB(Output+RR)	AB	RR
		(Baht / hospital)	(Baht / hospital / year)	(Baht/person/year)	(Baht/person/year)	(EB /AB)
34	Somdetphraputhaloenla Samutsongkhram Hospital	51,913,772.56	99,999,684	249.94	481.45	0.52
NORTHEASTERN REGION						
35	Chaiyaphum Hospital	30,517,778.73	206,473,315	264.18	1,787.35	0.15
36	Buriram Hospital	398,206,492.60	236,241,200	266.39	158.04	1.69
37	Surin Hospital	363,299,515.50	241,951,718	265.63	176.91	1.50
38	Maharat Nakhonratchasima Hospital	713,758,529.70	439,248,599	284.27	174.94	1.62
39	Sisaket Hospital	378,402,266.57	254,323,877	266.01	178.78	1.49
40	Loei Hospital	163,453,935.88	146,911,108	259.09	232.87	1.11
41	Nongkhai Hospital	229,738,036.59	167,449,572	258.51	188.42	1.37
42	Khonkaen Hospital	474,318,471.48	358,289,996	274.71	207.51	1.32
43	Udonthani Hospital	396,750,654.52	287,556,872	266.00	192.79	1.38
44	Nongbualamphu Hospital	124,261,060.36	68,989,588	255.60	141.91	1.80
45	Sakhonnakhon Hospital	280,095,162.94	208,382,693	260.02	193.45	1.34
46	Yasothon Hospital	142,344,240.78	145,345,634	259.06	264.52	0.98
47	Sanpasitprasong Hospital	476,502,222.17	373,805,896	275.26	215.93	1.27
48	Amnatcharoen Hospital	90,990,860.36	66,412,188	252.51	184.30	1.37
49	Nakhonphanom Hospital	184,747,733.85	175,352,118	262.45	249.10	1.05
50	Mukdahan Hospital	81,916,470.94	104,621,186	251.13	320.74	0.78

(continued)

Number	Hospital	EB(Output+RR)	AB	EB(Output+RR)	AB	RR
		(Baht / hospital)	(Baht / hospital / year)	(Baht/person/year)	(Baht/person/year)	(EB /AB)
51	Kalasin Hospital	252,845,660.81	177,654,854	259.47	182.31	1.42
52	Roi Et Hospital	348,097,785.08	220,556,093	265.70	168.35	1.58
53	Mahasarakham Hospital	233,965,514.20	191,624,871	252.19	206.55	1.22
NORTHERN REGION						
54	Uthaithani Hospital	82,989,247.05	121,558,435	252.26	369.50	0.68
55	Sawanpracharuk Nakhonsawan Hospital	295,466,497.49	257,673,918	261.04	227.65	1.15
56	Somdetphrachaotaksinmaharat Hospital	59,506,472.29	96,163,103	252.36	407.82	0.62
57	Maesod Tak Hospital	58,970,385.91	89,301,770	250.09	378.72	0.66
58	Kamphaengphet Hospital	196,820,070.23	115,757,495	256.93	151.11	1.70
59	Sukhothai Hospital	78,947,073.77	97,180,473	251.79	309.94	0.81
60	Srisungwon Sukhothai Hospital	78,939,320.05	88,313,305	251.76	281.66	0.89
61	Phuthachinarat phetsanulok Hospital	217,553,591.52	284,538,676	251.39	328.79	0.76
62	Phetchabun Hospital	266,996,939.16	143,763,199	256.50	138.11	1.86
63	Phrae Hospital	126,152,091.05	167,222,236	255.04	338.07	0.75
64	Nan Hospital	125,317,931.67	166,828,811	258.86	344.61	0.75
65	Phichit Hospital	155,378,593.59	142,110,338	258.48	236.41	1.09
66	Uttaradit Hospital	123,470,859.84	179,988,730	256.40	373.76	0.69
67	Lampang Hospital	218,153,681.97	269,702,746	270.21	334.05	0.81

(continued)

Number	Hospital	EB(Output+RR)	AB	EB(Output+RR)	AB	RR
		(Baht / hospital)	(Baht / hospital / year)	(Baht/person/year)	(Baht/person/year)	(EB /AB)
68	Chiangraiprachanukhrau Hospital	347,653,366.89	270,300,383	275.67	214.33	1.29
69	Nakhonping Chiangmai Hospital	417,141,375.30	220,203,713	265.06	139.92	1.89
70	Srisungwan Maehongson Hospital	57,187,882.45	88,742,604	249.42	387.04	0.64
71	Lamphun Hospital	103,847,153.94	126,449,104	254.03	309.31	0.82
72	Phayao Hospital	65,705,183.06	131,948,968	253.87	509.83	0.50
73	Cheangkhum Phayao Hospital	65,592,513.97	89,007,754	253.44	343.91	0.74
SOUTHERN REGION						
74	Suratthani Hospital	109,074,669.70	200,189,731	253.30	464.89	0.54
75	Kao Samui Suratthani Hospital	107,430,144.98	77,077,851	249.48	178.99	1.39
76	Chumphon Hospital	113,795,385.19	131,509,658	253.96	293.49	0.87
77	Ranong Hospital	38,059,155.13	87,917,151	250.61	578.91	0.43
78	Maharat Nakhonsrithammarat Hospital	403,677,200.09	337,923,957	267.01	223.52	1.19
79	Phangnga Hospital	28,906,805.63	66,677,938	251.69	580.56	0.43
80	Takuapha Phangnga Hospital	28,843,744.85	75,139,536	251.14	654.23	0.38
81	WicharaPhuket Phuket Hospital	55,384,085.28	115,121,901	249.66	518.95	0.48
82	Krabi Hospital	87,040,110.90	94,744,581	252.58	274.93	0.92
83	Narathiwat Hospital	81,848,108.33	127,808,230	253.06	395.16	0.64
84	Suhaikolok Narathiwat Hospital	81,657,097.02	82,493,444	252.47	255.05	0.99

(continued)

Number	Hospital	EB(Output+RR)	AB	EB(Output+RR)	AB	RR
		(Baht / hospital)	(Baht / hospital / year)	(Baht/person/year)	(Baht/person/year)	(EB /AB)
85	Pattani Hospital	151,149,529.96	127,703,732	255.87	216.18	1.18
86	Yala Hospital	53,466,599.31	139,656,274	255.34	666.95	0.38
87	Betong Yala Hospital	53,104,014.73	67,151,896	253.61	320.69	0.79
88	Trang Hospital	148,711,126.28	149,673,535	258.15	259.82	0.99
89	Phatthalung Hospital	127,335,593.95	130,557,670	255.28	261.74	0.98
90	Satun Hospital	64,137,774.24	84,936,010	253.33	335.48	0.76
91	Songkhla hospital	150,067,927.46	180,010,162	251.95	302.23	0.83
92	Hadyai Songkhla Hospital	149,697,200.00	199,494,738	251.33	334.94	0.75
	Total	14,042,758,803.00	14,042,758,803	259.04	259.04	1.00

Appendix 7 Comparison between Expected and Actual Budget in Equation 3.5

Number	Hospital	EB(Input+SSR) (Baht / hospital / year)	AB (Baht / hospital)	EB(Input+SSR) (Baht/person/year)	AB (Baht/person/year)	RR (EB / AB)
CENTRAL REGION						
1	Phranungklao Nonthaburi Hospital	196,691,915.43	139,986,558	245.64	174.82	1.41
2	Pathumthani Hospital	143,670,822.82	122,927,362	242.55	207.53	1.17
3	Phranakhonsriyuttaya Hospital	90,194,443.75	130,902,336	250.02	362.86	0.69
4	Sena Phranakhonsriyuttaya Hospital	90,040,398.58	68,893,969	249.59	190.98	1.31
5	Angthong Hospital	73,453,324.35	106,485,343	253.82	367.96	0.69
6	Samutprakan Hospital	237,835,067.46	135,187,331	248.71	141.37	1.76
7	Saraburi Hospital	70,736,035.28	188,863,405	237.16	633.20	0.37
8	Phraphuthabat Saraburi Hospital	73,327,618.51	133,679,436	245.85	448.19	0.55
9	Chaophrayayomrat Suphanburi hospital	107,981,863.96	143,390,269	253.09	336.08	0.75
10	Somdetphrasungkharat 17 Hospital	109,520,477.85	102,718,087	256.70	240.75	1.07
11	Singburi Hospital	28,259,945.18	103,705,064	251.11	921.50	0.27
12	Inburi Singburi Hospital	28,386,131.05	73,804,874	252.23	655.81	0.38
13	Lopburi Hospital	95,331,659.44	121,690,307	252.04	321.73	0.78
14	Banme Lopburi Hospital	96,020,190.12	120,732,589	253.86	319.19	0.80
15	Nakhonnayok Hospital	61,378,120.47	126,157,376	253.69	521.44	0.49

(continued)

Number	Hospital	EB(Input+SSR)	AB	EB(Input+SSR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
16	Chainat Hospital	90,134,085.51	119,492,239	255.67	338.95	0.75
17	Chonburi Hospital	245,822,202.22	250,695,017	238.98	243.72	0.98
18	Chaophrayaapaiphubet Hospital	110,985,566.22	147,230,495	254.00	336.95	0.75
19	Somdetphrayuparat Sakaew Hospital	133,122,169.12	73,634,745	255.30	141.22	1.81
20	Phrapokklao Chanthaburi Hospital	122,252,683.48	204,675,871	252.50	422.74	0.60
21	Muang Chachoengsao Hospital	156,267,889.82	148,450,206	249.18	236.72	1.05
22	Trat Hospital	55,093,013.00	104,986,992	250.42	477.21	0.52
23	Rayong Hospital	119,498,796.09	136,080,591	236.80	269.66	0.88
24	Ratchaburi Hospital	50,242,325.17	172,365,627	247.11	847.74	0.29
25	Banpong Ratchaburi Hospital	51,028,033.56	106,502,467	250.97	523.81	0.48
26	Potharam Ratchaburi Hospital	51,060,771.14	78,651,861	251.13	386.83	0.65
27	Dumnoensaduk Ratchaburi Hospital	51,384,655.48	72,011,411	252.72	354.17	0.71
28	Nakhonpathom Hospital	191,411,311.72	203,403,387	254.00	269.91	0.94
29	Phahonphonphayahasena Kanchanaburi Hospital	96,355,567.42	126,810,121	251.47	330.94	0.76
30	Makaruk Kanchanaburi Hospital	96,505,265.17	80,541,872	251.86	210.20	1.20
31	Pharjomklao Phetchaburi Hospital	115,333,267.47	154,349,863	254.38	340.43	0.75
32	Prachuapkhirikhan Hospital	117,354,566.73	130,215,076	250.29	277.72	0.90
33	Samutsakhon Hospital	95,343,599.60	119,801,838	234.18	294.25	0.80

(continued)

Number	Hospital	EB(Input+SSR)	AB	EB(Input+SSR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
34	Somdetphraputhaloenla Samutsongkhram Hospital	52,190,209.05	99,999,684	251.27	481.45	0.52
NORTHEASTERN REGION						
35	Chaiyaphum Hospital	30,656,719.81	206,473,315	265.38	1,787.35	0.15
36	Buriram Hospital	405,173,149.82	236,241,200	271.05	158.04	1.72
37	Surin Hospital	374,221,301.65	241,951,718	273.62	176.91	1.55
38	Maharat Nakhonratchasima Hospital	681,572,287.45	439,248,599	271.45	174.94	1.55
39	Sisaket Hospital	386,918,010.74	254,323,877	271.99	178.78	1.52
40	Loei Hospital	162,755,438.22	146,911,108	257.98	232.87	1.11
41	Nongkhai Hospital	233,232,040.70	167,449,572	262.44	188.42	1.39
42	Khonkaen Hospital	460,316,528.89	358,289,996	266.60	207.51	1.28
43	Udonthani Hospital	397,832,531.58	287,556,872	266.72	192.79	1.38
44	Nongbualamphu Hospital	125,374,718.68	68,989,588	257.89	141.91	1.82
45	Sakhonnakhon Hospital	285,907,755.01	208,382,693	265.42	193.45	1.37
46	Yasothon Hospital	142,474,132.47	145,345,634	259.30	264.52	0.98
47	Sanpasitprasong Hospital	469,208,499.94	373,805,896	271.05	215.93	1.26
48	Amnatcharoen Hospital	92,430,350.42	66,412,188	256.51	184.30	1.39
49	Nakhonphanom Hospital	184,170,391.76	175,352,118	261.63	249.10	1.05
50	Mukdahan Hospital	83,271,328.45	104,621,186	255.29	320.74	0.80

(continued)

Number	Hospital	EB(Input+SSR)	AB	EB(Input+SSR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
51	Kalasin Hospital	256,107,684.56	177,654,854	262.82	182.31	1.44
52	Roi Et Hospital	351,983,884.76	220,556,093	268.67	168.35	1.60
53	Maharakham Hospital	238,392,362.75	191,624,871	256.96	206.55	1.24
NORTHERN REGION						
54	Uthaitani Hospital	83,822,457.63	121,558,435	254.80	369.50	0.69
55	Sawanpracharuk Nakhonsawan Hospital	296,836,106.20	257,673,918	262.25	227.65	1.15
56	Somdetphrachaotaksinmaharat Hospital	59,443,150.82	96,163,103	252.09	407.82	0.62
57	Maesod Tak Hospital	59,717,287.16	89,301,770	253.26	378.72	0.67
58	Kamphaengphet Hospital	198,361,808.53	115,757,495	258.94	151.11	1.71
59	Sukhothai Hospital	79,847,471.60	97,180,473	254.66	309.94	0.82
60	Srisungwon Sukhothai Hospital	80,090,604.26	88,313,305	255.44	281.66	0.91
61	Phuthachinarat phetsanulok Hospital	218,966,323.22	284,538,676	253.02	328.79	0.77
62	Phetchabun Hospital	272,765,318.64	143,763,199	262.04	138.11	1.90
63	Phrae Hospital	128,462,338.31	167,222,236	259.71	338.07	0.77
64	Nan Hospital	124,401,437.25	166,828,811	256.97	344.61	0.75
65	Phichit Hospital	154,270,061.44	142,110,338	256.64	236.41	1.09
66	Uttaradit Hospital	122,785,736.39	179,988,730	254.97	373.76	0.68
67	Lampang Hospital	209,337,648.16	269,702,746	259.29	334.05	0.78

(continued)

Number	Hospital	EB(Input+SSR)	AB	EB(Input+SSR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
68	Chiangraiprachanukhrau Hospital	338,019,036.74	270,300,383	268.03	214.33	1.25
69	Nakhonping Chiangmai Hospital	429,538,500.94	220,203,713	272.94	139.92	1.95
70	Srisungwan Maehongson Hospital	58,073,500.06	88,742,604	253.28	387.04	0.65
71	Lamphun Hospital	104,722,421.73	126,449,104	256.17	309.31	0.83
72	Phayao Hospital	66,218,157.32	131,948,968	255.86	509.83	0.50
73	Cheangkhum Phayao Hospital	66,424,040.05	89,007,754	256.65	343.91	0.75
SOUTHERN REGION						
74	Suratthani Hospital	105,684,783.98	200,189,731	245.43	464.89	0.53
75	Kao Samui Suratthani Hospital	109,544,162.06	77,077,851	254.39	178.99	1.42
76	Chumphon Hospital	114,230,650.13	131,509,658	254.93	293.49	0.87
77	Ranong Hospital	38,454,250.86	87,917,151	253.21	578.91	0.44
78	Maharat Nakhonsrithammarat Hospital	396,560,299.05	337,923,957	262.30	223.52	1.17
79	Phangnga Hospital	29,091,356.00	66,677,938	253.29	580.56	0.44
80	Takuapha Phangnga Hospital	29,075,533.10	75,139,536	253.16	654.23	0.39
81	WicharaPhuket Phuket Hospital	54,764,176.93	115,121,901	246.87	518.95	0.48
82	Krabi Hospital	87,559,512.97	94,744,581	254.08	274.93	0.92
83	Narathiwat Hospital	82,347,320.51	127,808,230	254.60	395.16	0.64
84	Suhaikolok Narathiwat Hospital	82,574,486.72	82,493,444	255.30	255.05	1.00

(continued)

Number	Hospital	EB(Input+SSR)	AB	EB(Input+SSR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
85	Pattani Hospital	153,326,166.76	127,703,732	259.55	216.18	1.20
86	Yala Hospital	53,046,745.41	139,656,274	253.33	666.95	0.38
87	Betong Yala Hospital	53,963,326.39	67,151,896	257.71	320.69	0.80
88	Trang Hospital	146,484,922.78	149,673,535	254.29	259.82	0.98
89	Phatthalung Hospital	128,535,519.66	130,557,670	257.69	261.74	0.98
90	Satun Hospital	64,455,092.95	84,936,010	254.59	335.48	0.76
91	Songkhla hospital	149,830,129.72	180,010,162	251.55	302.23	0.83
92	Hadyai Songkhla Hospital	144,913,851.52	199,494,738	243.30	334.94	0.73
	Total	14,042,758,803.00	14,042,758,803	259.04	259.04	1.00



Appendix 8 Comparison between Expected and Actual Budget in Equation 3.6

Number	Hospital	EB(Output+SSR) (Baht / hospital / year)	AB (Baht / hospital)	EB(Output+SSR) (Baht/person/year)	AB (Baht/person/year)	RR (EB / AB)
CENTRAL REGION						
1	Phranungklao Nonthaburi Hospital	199,124,359.27	139,986,558	248.68	174.82	1.42
2	Pathumthani Hospital	144,646,270.03	122,927,362	244.20	207.53	1.18
3	Phranakhonsriyuttaya Hospital	91,330,335.72	130,902,336	253.17	362.86	0.70
4	Sena Phranakhonsriyuttaya Hospital	91,065,703.86	68,893,969	252.44	190.98	1.32
5	Angthong Hospital	74,148,944.42	106,485,343	256.22	367.96	0.70
6	Samutprakan Hospital	240,798,230.24	135,187,331	251.81	141.37	1.78
7	Saraburi Hospital	71,419,458.18	188,863,405	239.45	633.20	0.38
8	Phraphuthabat Saraburi Hospital	74,304,799.41	133,679,436	249.12	448.19	0.56
9	Chaophrayayomrat Suphanburi hospital	109,276,349.48	143,390,269	256.12	336.08	0.76
10	Somdetphrasungkharat 17 Hospital	110,303,773.44	102,718,087	258.53	240.75	1.07
11	Singburi Hospital	28,613,237.04	103,705,064	254.25	921.50	0.28
12	Inburi Singburi Hospital	28,673,533.74	73,804,874	254.79	655.81	0.39
13	Lopburi Hospital	96,464,091.06	121,690,307	255.03	321.73	0.79
14	Banme Lopburi Hospital	97,026,468.34	120,732,589	256.52	319.19	0.80
15	Nakhonnayok Hospital	61,725,902.87	126,157,376	255.13	521.44	0.49

(continued)

Number	Hospital	EB(Output+SSR)	AB	EB(Output+SSR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
16	Chainat Hospital	90,452,969.24	119,492,239	256.58	338.95	0.76
17	Chonburi Hospital	245,667,454.41	250,695,017	238.83	243.72	0.98
18	Chaophrayaapaiphubet Hospital	112,308,023.31	147,230,495	257.02	336.95	0.76
19	Somdetphrayuparat Sakaew Hospital	134,807,124.33	73,634,745	258.53	141.22	1.83
20	Phrapokklao Chanthaburi Hospital	122,440,797.61	204,675,871	252.89	422.74	0.60
21	Muang Chachoengsao Hospital	158,213,518.75	148,450,206	252.29	236.72	1.07
22	Trat Hospital	55,813,929.76	104,986,992	253.70	477.21	0.53
23	Rayong Hospital	120,958,638.62	136,080,591	239.70	269.66	0.89
24	Ratchaburi Hospital	50,817,766.69	172,365,627	249.94	847.74	0.29
25	Banpong Ratchaburi Hospital	51,587,941.39	106,502,467	253.72	523.81	0.48
26	Potharam Ratchaburi Hospital	51,586,439.20	78,651,861	253.72	386.83	0.66
27	Dumnoensaduk Ratchaburi Hospital	51,927,257.09	72,011,411	255.39	354.17	0.72
28	Nakhonpathom Hospital	192,729,826.29	203,403,387	255.75	269.91	0.95
29	Phahonphonphayusana Kanchanaburi Hospital	97,684,992.20	126,810,121	254.94	330.94	0.77
30	Makaruk Kanchanaburi Hospital	97,644,170.81	80,541,872	254.83	210.20	1.21
31	Pharjomklao Phetchaburi Hospital	116,269,281.43	154,349,863	256.44	340.43	0.75
32	Prachuapkhirikhan Hospital	119,079,633.57	130,215,076	253.97	277.72	0.91
33	Samutsakhon Hospital	96,460,358.10	119,801,838	236.92	294.25	0.81

(continued)

Number	Hospital	EB(Output+SSR) (Baht / hospital / year)	AB (Baht / hospital)	EB(Output+SSR) (Baht/person/year)	AB (Baht/person/year)	RR (EB / AB)
34	Somdetphraputhaloenla Samutsongkhram Hospital	52,932,193.03	99,999,684	254.84	481.45	0.53
NORTHEASTERN REGION						
35	Chaiyaphum Hospital	30,799,857.56	206,473,315	266.62	1,787.35	0.15
36	Buriram Hospital	403,544,817.41	236,241,200	269.96	158.04	1.71
37	Surin Hospital	370,116,344.34	241,951,718	270.62	176.91	1.53
38	Maharat Nakhonratchasima Hospital	662,299,008.17	439,248,599	263.78	174.94	1.51
39	Sisaket Hospital	384,565,229.16	254,323,877	270.34	178.78	1.51
40	Loei Hospital	164,032,783.47	146,911,108	260.01	232.87	1.12
41	Nongkhai Hospital	234,169,816.52	167,449,572	263.50	188.42	1.40
42	Khonkaen Hospital	456,680,302.39	358,289,996	264.50	207.51	1.27
43	Udonthani Hospital	394,252,429.24	287,556,872	264.32	192.79	1.37
44	Nongbualamphu Hospital	126,603,244.96	68,989,588	260.42	141.91	1.84
45	Sakhonnakhon Hospital	283,641,627.08	208,382,693	263.31	193.45	1.36
46	Yasothon Hospital	143,844,618.87	145,345,634	261.79	264.52	0.99
47	Sanpasitprasong Hospital	464,694,866.29	373,805,896	268.44	215.93	1.24
48	Amnatcharoen Hospital	93,339,060.93	66,412,188	259.03	184.30	1.41
49	Nakhonphanom Hospital	184,221,507.49	175,352,118	261.70	249.10	1.05
50	Mukdahan Hospital	83,867,055.59	104,621,186	257.11	320.74	0.80

(continued)

Number	Hospital	EB(Output+SSR)	AB	EB(Output+SSR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
51	Kalasin Hospital	255,952,727.49	177,654,854	262.66	182.31	1.44
52	Roi Et Hospital	349,536,935.25	220,556,093	266.80	168.35	1.58
53	Maharakham Hospital	239,142,346.69	191,624,871	257.77	206.55	1.25
NORTHERN REGION						
54	Uthaithani Hospital	84,391,907.16	121,558,435	256.53	369.50	0.69
55	Sawanpracharak Nakhonsawan Hospital	295,899,469.64	257,673,918	261.42	227.65	1.15
56	Somdetphrachaotaksinmaharat Hospital	60,691,478.33	96,163,103	257.39	407.82	0.63
57	Maesod Tak Hospital	60,481,213.93	89,301,770	256.50	378.72	0.68
58	Kamphaengphet Hospital	199,990,678.77	115,757,495	261.07	151.11	1.73
59	Sukhothai Hospital	80,763,685.22	97,180,473	257.58	309.94	0.83
60	Srisungwon Sukhothai Hospital	80,926,891.73	88,313,305	258.10	281.66	0.92
61	Phuthachinarat phetsanulok Hospital	218,301,489.97	284,538,676	252.25	328.79	0.77
62	Phetchabun Hospital	271,728,147.81	143,763,199	261.05	138.11	1.89
63	Phrae Hospital	128,599,556.79	167,222,236	259.99	338.07	0.77
64	Nan Hospital	125,064,698.19	166,828,811	258.34	344.61	0.75
65	Phichit Hospital	156,151,653.04	142,110,338	259.77	236.41	1.10
66	Uttaradit Hospital	123,700,792.65	179,988,730	256.87	373.76	0.69
67	Lampang Hospital	207,803,849.16	269,702,746	257.39	334.05	0.77

(continued)

Number	Hospital	EB(Output+SSR)	AB	EB(Output+SSR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
68	Chiangraiprachanukhrau Hospital	330,765,065.52	270,300,383	262.28	214.33	1.22
69	Nakhonping Chiangmai Hospital	416,615,244.04	220,203,713	264.73	139.92	1.89
70	Srisungwan Maehongson Hospital	58,761,041.17	88,742,604	256.28	387.04	0.66
71	Lamphun Hospital	104,868,221.73	126,449,104	256.52	309.31	0.83
72	Phayao Hospital	66,615,448.42	131,948,968	257.39	509.83	0.50
73	Cheangkhum Phayao Hospital	66,885,397.73	89,007,754	258.43	343.91	0.75
SOUTHERN REGION						
74	Suratthani Hospital	107,018,853.90	200,189,731	248.53	464.89	0.53
75	Kao Samui Suratthani Hospital	110,320,474.53	77,077,851	256.19	178.99	1.43
76	Chumphon Hospital	115,099,609.74	131,509,658	256.87	293.49	0.88
77	Ranong Hospital	38,981,710.69	87,917,151	256.68	578.91	0.44
78	Maharat Nakhonsrithammarat Hospital	395,172,301.32	337,923,957	261.38	223.52	1.17
79	Phangnga Hospital	29,429,822.69	66,677,938	256.24	580.56	0.44
80	Takuapha Phangnga Hospital	29,486,382.29	75,139,536	256.73	654.23	0.39
81	WicharaPhuket Phuket Hospital	55,498,858.73	115,121,901	250.18	518.95	0.48
82	Krabi Hospital	88,459,689.03	94,744,581	256.70	274.93	0.93
83	Narathiwat Hospital	83,687,348.74	127,808,230	258.75	395.16	0.65
84	Suhaikolok Narathiwat Hospital	83,765,678.05	82,493,444	258.99	255.05	1.02

(continued)

Number	Hospital	EB(Output+SSR)	AB	EB(Output+SSR)	AB	RR
		(Baht / hospital / year)	(Baht / hospital)	(Baht/person/year)	(Baht/person/year)	(EB / AB)
85	Pattani Hospital	154,515,615.90	127,703,732	261.57	216.18	1.21
86	Yala Hospital	53,949,183.50	139,656,274	257.64	666.95	0.39
87	Betong Yala Hospital	54,589,666.03	67,151,896	260.70	320.69	0.81
88	Trang Hospital	148,375,229.55	149,673,535	257.57	259.82	0.99
89	Phatthalung Hospital	129,563,055.63	130,557,670	259.75	261.74	0.99
90	Satun Hospital	65,318,389.67	84,936,010	257.99	335.48	0.77
91	Songkhla hospital	150,593,006.84	180,010,162	252.84	302.23	0.84
92	Hadyai Songkhla Hospital	146,319,642.63	199,494,738	245.66	334.94	0.73
	Total	14,042,758,803.00	14,042,758,803	259.04	259.04	1.00

Appendix 9 Values of variables in Equations 3.1 to 3.6

Number	Hospital	MTR	BR	OVR	AR	RR	A1R	A2R	IGR	NBR	SSR
CENTRAL REGION											
1	Phranungklao Nonthaburi Hospital	0.0090	0.0116	0.0177	0.0092	0.0038	0.0090	0.0105	0.0258	0.0189	0.0233
2	Pathumthani Hospital	0.0102	0.0084	0.0093	0.0100	0.0004	0.0079	0.0084	0.0592	0.0083	0.0088
3	Phranakhonsriyuttaya Hospital	0.0077	0.0103	0.0120	0.0125	0.0041	0.0056	0.0109	0.0213	0.0113	0.0117
4	Sena Phranakhonsriyuttaya Hospital	0.0077	0.0043	0.0063	0.0109	0.0005	0.0056	0.0109	0.0213	0.0054	0.0133
5	Angthong Hospital	0.0071	0.0084	0.0074	0.0114	0.0031	0.0044	0.0078	0.0100	0.0071	0.0051
6	Samutprakan Hospital	0.0119	0.0087	0.0166	0.0103	0.0032	0.0130	0.0133	0.0484	0.0012	0.0131
7	Saraburi Hospital	0.0048	0.0170	0.0144	0.0109	0.0058	0.0043	0.0061	0.0296	0.0202	0.0463
8	Phraphuthabat Saraburi Hospital	0.0048	0.0108	0.0120	0.0107	0.0027	0.0043	0.0061	0.0296	0.0071	0.0161
9	Chaophrayayomrat Suphanburi hospital	0.0082	0.0135	0.0126	0.0150	0.0109	0.0072	0.0104	0.0096	0.0160	0.0112
10	Somdetphrasungkharat 17 Hospital	0.0082	0.0056	0.0046	0.0102	0.0004	0.0072	0.0104	0.0096	0.0036	0.0015
11	Singburi Hospital	0.0028	0.0083	0.0074	0.0101	0.0027	0.0018	0.0034	0.0090	0.0069	0.0057
12	Inburi Singburi Hospital	0.0028	0.0068	0.0059	0.0077	0.0042	0.0018	0.0034	0.0090	0.0053	0.0014
13	Lopburi Hospital	0.0067	0.0090	0.0104	0.0111	0.0039	0.0057	0.0081	0.0099	0.0106	0.0106
14	Banme Lopburi Hospital	0.0067	0.0069	0.0070	0.0111	0.0014	0.0057	0.0081	0.0099	0.0057	0.0062
15	Nakhonnayok Hospital	0.0053	0.0097	0.0061	0.0084	0.0063	0.0041	0.0066	0.0074	0.0087	0.0045

(continued)

Number	Hospital	MTR	BR	OVR	AR	RR	A1R	A2R	IGR	NBR	SSR
16	Chainat Hospital	0.0071	0.0112	0.0074	0.0083	0.0067	0.0055	0.0098	0.0088	0.0068	0.0052
17	Chonburi Hospital	0.0176	0.0209	0.0217	0.0100	0.0137	0.0135	0.0178	0.0523	0.0328	0.0416
18	Chaophrayaapaiphubet Hospital	0.0071	0.0110	0.0099	0.0140	0.0089	0.0086	0.0096	0.0114	0.0142	0.0045
19	Somdetphrayuparat Sakaew Hospital	0.0080	0.0037	0.0052	0.0131	0.0020	0.0084	0.0068	0.0072	0.0028	0.0055
20	Phrapokklao Chanthaburi Hospital	0.0085	0.0197	0.0139	0.0096	0.0187	0.0075	0.0083	0.0113	0.0194	0.0131
21	Muang Chachoengsao Hospital	0.0108	0.0109	0.0124	0.0157	0.0082	0.0109	0.0156	0.0206	0.0143	0.0266
22	Trat Hospital	0.0037	0.0091	0.0096	0.0102	0.0100	0.0035	0.0030	0.0166	0.0073	0.0037
23	Rayong Hospital	0.0085	0.0108	0.0130	0.0124	0.0072	0.0084	0.0098	0.0534	0.0131	0.0368
24	Ratchaburi Hospital	0.0042	0.0181	0.0183	0.0094	0.0094	0.0031	0.0046	0.0129	0.0243	0.0145
25	Banpong Ratchaburi Hospital	0.0042	0.0097	0.0106	0.0081	0.0012	0.0031	0.0046	0.0129	0.0067	0.0078
26	Potharam Ratchaburi Hospital	0.0042	0.0059	0.0055	0.0087	0.0018	0.0031	0.0046	0.0129	0.0042	0.0059
27	Dumnoensaduk Ratchaburi Hospital	0.0042	0.0082	0.0061	0.0107	0.0010	0.0031	0.0046	0.0129	0.0049	0.0012
28	Nakhonpathom Hospital	0.0150	0.0148	0.0192	0.0113	0.0065	0.0133	0.0156	0.0190	0.0260	0.0075
29	Phahonphonphayuhasena Kanchanaburi Hospital	0.0058	0.0103	0.0112	0.0126	0.0045	0.0062	0.0057	0.0135	0.0127	0.0058
30	Makaruk Kanchanaburi Hospital	0.0058	0.0073	0.0093	0.0095	0.0012	0.0062	0.0057	0.0135	0.0072	0.0067
31	Pharjomklao Phetchaburi Hospital	0.0096	0.0098	0.0090	0.0124	0.0077	0.0074	0.0101	0.0117	0.0083	0.0092
32	Prachuapkhirikhan Hospital	0.0077	0.0055	0.0071	0.0147	0.0049	0.0078	0.0075	0.0147	0.0065	0.0160
33	Samutsakhon Hospital	0.0071	0.0116	0.0138	0.0105	0.0005	0.0061	0.0068	0.0522	0.0134	0.0433

(continued)

Number	Hospital	MTR	BR	OVR	AR	RR	A1R	A2R	IGR	NBR	SSR
34	Somdetphraputhaloenla Samutsongkhram Hospita	0.0050	0.0070	0.0090	0.0111	0.0036	0.0033	0.0050	0.0085	0.0090	0.0076
NORTHEASTERN REGION											
35	Chaiyaphum Hospital	0.0161	0.0112	0.0133	0.0125	0.0166	0.0202	0.0207	0.0045	0.0082	0.0049
36	Buriram Hospital	0.0219	0.0140	0.0127	0.0130	0.0119	0.0326	0.0256	0.0034	0.0131	0.0054
37	Surin Hospital	0.0229	0.0175	0.0118	0.0112	0.0106	0.0301	0.0265	0.0029	0.0110	0.0014
38	Maharat Nakhonratchasima Hospital	0.0397	0.0279	0.0206	0.0114	0.0554	0.0501	0.0487	0.0077	0.0317	0.0529
39	Sisaket Hospital	0.0252	0.0112	0.0125	0.0114	0.0107	0.0294	0.0239	0.0029	0.0073	0.0038
40	Loei Hospital	0.0098	0.0087	0.0089	0.0113	0.0233	0.0109	0.0096	0.0047	0.0085	0.0040
41	Nongkhai Hospital	0.0140	0.0087	0.0105	0.0101	0.0060	0.0186	0.0136	0.0039	0.0062	0.0055
42	Khonkaen Hospital	0.0296	0.0178	0.0189	0.0141	0.0422	0.0334	0.0306	0.0076	0.0206	0.0276
43	Udonthani Hospital	0.0248	0.0208	0.0184	0.0118	0.0224	0.0298	0.0203	0.0053	0.0197	0.0149
44	Nongbualamphu Hospital	0.0080	0.0036	0.0053	0.0100	0.0095	0.0106	0.0071	0.0032	0.0021	0.0025
45	Sakhonnakhon Hospital	0.0202	0.0145	0.0102	0.0102	0.0110	0.0212	0.0146	0.0038	0.0089	0.0071
46	Yasothon Hospital	0.0101	0.0086	0.0090	0.0132	0.0175	0.0121	0.0109	0.0029	0.0090	0.0027
47	Sanpasitprasong Hospital	0.0285	0.0242	0.0244	0.0122	0.0398	0.0346	0.0298	0.0042	0.0238	0.0168
48	Amnatcharoen Hospital	0.0067	0.0043	0.0056	0.0092	0.0038	0.0076	0.0061	0.0043	0.0030	0.0013
49	Nakhonphanom Hospital	0.0131	0.0091	0.0078	0.0084	0.0305	0.0143	0.0112	0.0033	0.0049	0.0034
50	Mukdahan Hospital	0.0057	0.0070	0.0045	0.0092	0.0041	0.0060	0.0045	0.0048	0.0041	0.0030

(continued)

Number	Hospital	MTR	BR	OVR	AR	RR	A1R	A2R	IGR	NBR	SSR
51	Kalasin Hospital	0.0181	0.0120	0.0105	0.0128	0.0124	0.0180	0.0131	0.0034	0.0111	0.0061
52	Roi Et Hospital	0.0242	0.0146	0.0138	0.0116	0.0191	0.0244	0.0208	0.0033	0.0099	0.0076
53	Maharakham Hospital	0.0158	0.0093	0.0114	0.0107	0.0044	0.0033	0.0050	0.0032	0.0080	0.0044
NORTHERN REGION											
54	Uthaitani Hospital	0.0068	0.0094	0.0068	0.0101	0.0099	0.0051	0.0068	0.0076	0.0071	0.0040
55	Sawanpracharak Nakhonsawan Hospital	0.0203	0.0181	0.0197	0.0093	0.0171	0.0179	0.0228	0.0074	0.0208	0.0123
56	Somdetphrachaotaksinmaharat Hospital	0.0036	0.0070	0.0089	0.0165	0.0060	0.0033	0.0031	0.0077	0.0058	0.0049
57	Maesod Tak Hospital	0.0036	0.0083	0.0056	0.0130	0.0039	0.0033	0.0031	0.0077	0.0061	0.0014
58	Kamphaengphet Hospital	0.0116	0.0090	0.0120	0.0107	0.0090	0.0130	0.0119	0.0078	0.0065	0.0056
59	Sukhothai Hospital	0.0062	0.0080	0.0087	0.0108	0.0041	0.0049	0.0064	0.0056	0.0073	0.0038
60	Srisungwon Sukhothai Hospital	0.0062	0.0082	0.0095	0.0092	0.0023	0.0049	0.0064	0.0056	0.0048	0.0035
61	Phuthachinarat phetsanulok Hospital	0.0156	0.0236	0.0184	0.0115	0.0051	0.0142	0.0152	0.0077	0.0366	0.0223
62	Phetchabun Hospital	0.0164	0.0092	0.0068	0.0088	0.0038	0.0158	0.0169	0.0051	0.0061	0.0093
63	Phrae Hospital	0.0155	0.0106	0.0112	0.0099	0.0073	0.0075	0.0114	0.0043	0.0080	0.0041
64	Nan Hospital	0.0101	0.0113	0.0097	0.0109	0.0284	0.0077	0.0096	0.0050	0.0111	0.0046
65	Phichit Hospital	0.0037	0.0092	0.0074	0.0115	0.0200	0.0099	0.0137	0.0054	0.0086	0.0058
66	Uttaradit Hospital	0.0098	0.0148	0.0144	0.0115	0.0217	0.0072	0.0107	0.0075	0.0177	0.0073
67	Lampang Hospital	0.0223	0.0216	0.0195	0.0107	0.0679	0.0109	0.0185	0.0087	0.0239	0.0136

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Number	Hospital	MTR	BR	OVR	AR	RR	A1R	A2R	IGR	NBR	SSR
68	Chiangraiprachanukhrau Hospital	0.0420	0.0204	0.0206	0.0132	0.0653	0.0180	0.0250	0.0054	0.0216	0.0173
69	Nakhonping Chiangmai Hospital	0.0527	0.0112	0.0135	0.0125	0.0176	0.0192	0.0358	0.0114	0.0129	0.0145
70	Srisungwan Maehongson Hospital	0.0037	0.0040	0.0039	0.0095	0.0017	0.0035	0.0028	0.0058	0.0031	0.0017
71	Lamphun Hospital	0.0141	0.0082	0.0076	0.0100	0.0135	0.0062	0.0121	0.0131	0.0053	0.0074
72	Phayao Hospital	0.0100	0.0097	0.0090	0.0106	0.0114	0.0041	0.0057	0.0049	0.0056	0.0055
73	Cheangkhum Phayao Hospital	0.0100	0.0062	0.0065	0.0106	0.0103	0.0041	0.0057	0.0049	0.0037	0.0008
SOUTHERN REGION											
74	Suratthani Hospital	0.0062	0.0177	0.0192	0.0113	0.0163	0.0084	0.0078	0.0108	0.0241	0.0340
75	Kao Samui Suratthani Hospital	0.0062	0.0020	0.0020	0.0071	0.0001	0.0084	0.0078	0.0108	0.0019	0.0039
76	Chumphon Hospital	0.0068	0.0110	0.0097	0.0095	0.0057	0.0087	0.0082	0.0030	0.0081	0.0136
77	Ranong Hospital	0.0019	0.0069	0.0076	0.0088	0.0019	0.0029	0.0016	0.0014	0.0042	0.0047
78	Maharat Nakhonsrithammarat Hospital	0.0190	0.0206	0.0173	0.0126	0.0289	0.0347	0.0281	0.0134	0.0263	0.0237
79	Phangnga Hospital	0.0019	0.0058	0.0051	0.0081	0.0103	0.0025	0.0017	0.0019	0.0042	0.0024
80	Takuapha Phangnga Hospital	0.0019	0.0048	0.0060	0.0087	0.0061	0.0025	0.0017	0.0019	0.0037	0.0024
81	WicharaPhuket Phuket Hospital	0.0033	0.0119	0.0128	0.0097	0.0038	0.0036	0.0027	0.0051	0.0140	0.0251
82	Krabi Hospital	0.0042	0.0081	0.0070	0.0094	0.0054	0.0074	0.0041	0.0024	0.0057	0.0091
83	Narathiwat Hospital	0.0042	0.0070	0.0082	0.0131	0.0038	0.0075	0.0050	0.0031	0.0075	0.0046
84	Suhaikolok Narathiwat Hospital	0.0042	0.0043	0.0057	0.0111	0.0022	0.0075	0.0050	0.0031	0.0037	0.0029

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Number	Hospital	MTR	BR	OVR	AR	RR	A1R	A2R	IGR	NBR	SSR
85	Pattani Hospital	0.0092	0.0083	0.0084	0.0107	0.0075	0.0133	0.0107	0.0050	0.0075	0.0011
86	Yala Hospital	0.0028	0.0142	0.0154	0.0125	0.0106	0.0164	0.0027	0.0020	0.0194	0.0111
87	Betong Yala Hospital	0.0028	0.0043	0.0038	0.0088	0.0017	0.0164	0.0027	0.0020	0.0020	0.0013
88	Trang Hospital	0.0091	0.0099	0.0131	0.0127	0.0128	0.0136	0.0109	0.0048	0.0111	0.0204
89	Phatthalung Hospital	0.0070	0.0093	0.0088	0.0094	0.0084	0.0110	0.0083	0.0017	0.0083	0.0049
90	Satun Hospital	0.0033	0.0044	0.0054	0.0095	0.0085	0.0058	0.0037	0.0011	0.0037	0.0039
91	Songkhla hospital	0.0098	0.0142	0.0141	0.0089	0.0062	0.0124	0.0104	0.0166	0.0127	0.0212
92	Hadyai Songkhla Hospital	0.0098	0.0172	0.0190	0.0116	0.0108	0.0124	0.0104	0.0166	0.0276	0.0436
	Total	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

CURRICULUM VITAE

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