SEAMIC HEALTH STATISTICS

1983

Compiled

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PREFACE

Because statistics are indispensable in the planning and evaluation of any societal program, it goes without saying that they are of great importance in developing programs in the health and medical field. Thus, through the SEAMIC activities, efforts have been made to collect facts and figures relevant to health and medical care in the SEAMIC countries and to compile secondary statistics and other reference materials.

This publication is the result of such collaborative efforts among the SEAMIC counterparts. It is our hope that the SEAMIC HEALTH STATISTICS, as small a publication as it is, may, with its more updated, improved, and enlarged contents, serve as a *vade mecum* for all people engaged in or concerned with health planning in the Southeast Asian region.

February, 1984

Shigeru Takabayashi

Coordinator
SEAMIC Committee on Health Statistics

For the better use of the statistics, background descriptions of the health statistics in each SEAMIC country and Japan have been newly included in the 1983 revision.

March 1984.

S.T.

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		1/3

EXPLANATION OF SYMBOLS

• •	Category not applicable
(blank)	· · · · · Data not available
-	Ni
0 0.0	Not nil, but less than half of unit employed
*	· · · · · Provisional or estimated

Part I SEAMIC HEALTH STATISTICS

1-1. Area and Population

	Area(1)			Latest Census	
	(km²)	Date	Total	Male	Female
INDONESIA	1,919,413 ⁽⁸⁾	31 Oct. 1980 ⁽²⁾	147,490,298	73,332,544	74,157,754
JAPAN	372,313	1 Oct. 1980 ⁽³⁾	116,916,400	57,490,400	59,426,100
MALAYSIA	329,749		13,435,588	6,747,966	6,687,622
Peninsular Malaysia	131,588	10 June 1980 ⁽⁴⁾	11,138,227	5,570,198	5,568,029
Sabah	73,711	10 June 1980 ⁽⁴⁾	1,002,608	524,319	478,289
Sarawak	124,450	10 June 1980 ⁽⁴⁾	1,294,753	653,449	641,304
PHILIPPINES	300,000	1 May 1980 ⁽⁵⁾	48,098,460	23,904,970 ^(a)	24,193,490 ^{(a}
SINGAPORE	618	24 June 1980 ⁽⁶⁾	2,413,945	1,231,760	1,182,185
THAILAND	514,000	1 June 1980 ⁽⁷⁾	44,278,000	22,008,000	22,270,000

Source: (1) Demographic Yearbook 1980, UN

Note:

(a) Estimates based on sex ratio at 1975 Population Census.

⁽²⁾ Penduduk Indonesia Menurut Propinsi, Seri: L No. 3, Hasil Pencadahar Lengkap Sensus Penduduk 1980, Biro Pusat Statistik, Jakarta, Indonesia, May 1981

^{(3) 1980} Population Census of Japan, Prompt Report of the Basic Findings, Part 1, Whole Japan, Statistics Bureau, Prime Minister's Office, Japan, March 1981

^{(4) 1980} Population and Housing Census of Malaysia, Preliminary Field Count Summary, Department of Statistics, Malaysia, Oct. 1980

⁽⁵⁾ Philippines 1980, National Census and Statistics Office, Republic of the Philippines, Special Report No. 3

⁽⁶⁾ Census of Population 1980 Singapore, Department of Statistics, Singapore, Jan. 1981

⁽⁷⁾ Preliminary Report, 1980 Population and Housing Census, National Statistical Office, Thailand

⁽⁸⁾ Proyekan Penduduk Indonesia 1980-2000, Serie: LPDG 0661 8301, Biro Pusat Statistik

1-2. Estimates of Mid-Year Population

(in millions)

			141	. Po	opulation Estima	ates			
Year	1970	1975	1976	1977	1978	1979	1980	1981	1982
INDONESIA ⁽¹⁾	119.47	130.50	133.53	136.63	139.80	143.04	146.36	149.68	152.99
JAPAN	104.34	111.57	112.77	113.86	114.90	115.87	116.78	117.65	118.45
MALAYSIA	10.39	11.90	12.30	12.60	12.91	13.30*	13.44	14.42*	14.77
PHILIPPINES	36.85	42.26	43.34	44.42	45.50	46.58	48.40	49.53	50.74
SINGAPORE	2.07	2.26	2.29	2.33	2.35	2.38	2.41	2.44	2.47 ⁽²⁾
THAILAND	36.37	41.87	42.96	44.04	45.10	46.14	46.50	47.49	48.56 ^{(3),(a}

Source: Monthly Bulletin of Statistics Sept. 1983 Vol. XXXVII No. 9, United Nations, New York, 1983 (1) Proyekan Penduduk Indonesia 1980–2000 Serie LPDG-0661-8301, Biro Pusat Statistik (2) Yearbook of Statistics, Singapore 1982/83 (3) Report of Working Group on Population Projections, National Statistical Office, July 1981

Note: (a) Estimates based on total population figures, 1970 Population & Housing Census, National Statistical Office, Thailand

1-3. Population by Age and Sex (1)

(in thousands)

		Sex					A	je				
	Year	Sex	All Ages	0	14	5–9	1014	15–19	20-24	2529	30–34	35–39
	-	Т	148,040	3,901	18,480	19,760	17,552	15,515	13,971	11,403	8,926	8,275
INDONESIA (1)	1980	М	73,611	1,990	9,439	10,031	8,854	7,780	6,961	5,646	4,397	4,049
		F	74,429	1,911	9,042	9,729	8,698	7,735	7,011	5,758	4,529	4,226
		т	117,060	1,587	6,928	10,032	8,960	8,272	7,841	9,041	10,772	9,202
JAPAN ⁽²⁾	1980	м	57,594	814	3,552	5,142	4,595	4,224	3,960	4,545	5,422	4,595
		F	59,467	773	3,376	4,890	4,365	4,049	3,881	4,996	5,350	4,607
MALAYSIA ⁽³⁾		т	10,762	311	1,225	1,363	1,356	1,300	1,101	872	643	525
	1978	м	5,406	160	627	693	691	661	553	428	316	261
Peninsular Malaysia		F	5,355	151	598	669	665	638	549	443	326	264
		7	45,528	7,0	603	6,511	5,600	4,598	4,006	3,551	2,868	2,322
PHILIPPINES (4)	1978	м	22,901	3,	869	3,324	2,914	2,276	1,912	1,684	1,457	1,184
		F	22,627	3,	734	3,187	2,686	2,322	2,094	1,867	1,411	1,138
		т	2,471		195	212	225	270	299	273	231	152
SINGAPORE (5)	1982	м	1,260		101	110	116	138	155	140	117	77
		F	1,211		93	102	109	131	144	133	113	74
		т	46,455	6,	391	6,135	6,155	5,314	4,450	3,822	3,219	2,426
THAILAND (6)	1980	М	23,347	3,	263	3,126	3,137	2,692	2,258	1,936	1,638	1,223
-		F	23,108	3,1	129	3,009	3,018	2,622	2,192	1,886	1,581	1,203

Source: (1) Proyekan Penduduk Indonesia 1980–2000, LPDG·0661·8301, Biro Pusat Statistik
(2) 1980 Population Census of Japan, Statistical Bureau, Prime Minister's Office
(3) Demographic Yearbook 1980, UN
(4) 1978 Philippine Health Statistics, Ministry of Health, Manila
(5) Yearbook of Statistics, Singapore 1982/83
(6) Statistical Yearbook Thailand, No. 32 1976–80, National Statistical Office

1-3. Population by Age and Sex (2)

(in thousands)

			,				Age				
	Year	Sex	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & +	Age Unknown
		Ť	7,556	6,308	4,982	3,660	2,834	2,099	1,440	1,378	
INDONESIA	1980	м	3,671	3,041	2,386	1,740	1,338	983	670	636	
		F	3,885	3,267	2,596	1,920	1,446	1,116	770	742	
		т	8,338	8,090	7,200	5,614	4,465	3,965	3,023	3,660	71
JAPAN	1980	M	4,159	4,033	3,547	2,511	1,946	1,744	1,318	1,439	49
		F	4,179	4,057	3,653	3,102	2,519	2,221	1,705	2,221	23
MALAYSIA		т	483	381	329	267	221	163	118	106	
Peninsular	1980	М	237	186	162	130	111	82	59	50	
Malaysia		F	246	195	167	137	110	81	59	56	
		т	1,867	1,548	1,366	1,229	1,002	683	77	4	
PHILIPPINES	1978	м	956	729	637	546	455	319	36	4	
		F	911	819	729	683	547	364	41	0	
		т	141	111	98	76	62	49	7	1	
SINGAPORE	1982	м	71	56	50	39	31	23	← 3	0>	
		F	70	55	48	36	30	25	4	0	
		т	1,902	1,716	1,441	1,176	848	640	82	0	2
THAILAND	1980	М	932	830	697	563	400	296	35	6	
		F	970	886	744	613	448	344	46	4	

1-4. Population by Sex and Urban Rural Residence

	Year	Sex	Urban	Rural	Urban Pop./Total Pop. (%)
INDONESIA ⁽¹⁾	1980	T M F	32,845,769 16,441,891 16,403,878	113,930,704 56,509,779 57,420,925	22,4 22.5 22.2
JAPAN ⁽²⁾	1980	T M F	89,187,409 44,026,960 45,160,449	27,872,987 13,566,809 14,306,178	76.2 76.4 75.9
MALAYSIA ⁽³⁾ Peninsular Malaysia	1980 1980	т	4,597,117 4,162,539	8,889,316 7,025,561	34.1 37.2
Sabah Sarawak	1980 1980	т	206,894 227,684	796,593 1,067,162	20.6 17.6
PHILIPPINES ⁽⁴⁾	1980	T M F	17,943,897 8,765,276 9,178,621	30,154,563 15,363,479 14,791,984	37.3 36.3 38.3
SINGAPORE ⁽⁵⁾	1982	T M F	2,471,800 1,260,400 1,211,400	- - -	100.0 100.0 100.0
THAILAND ⁽⁶⁾	1980	T M F	8,279,979 4.197,301 4,082,678	38,681,359 19,430,246 19,250,933	17.6 17.8 17.5

Source: (1) Population of Indonesia, SPLY · 0661 · 8202 Serie S No. 2 BPS

(2) 1980 Population Census of Japan, Statistical Bureau, Prime Minister's Office

(3) 1980 Population and Housing Census of Malaysia, Preliminary Field Count Summary, Department of Statistics, Malaysia

(4) National Census and Statistics Office, 1980

(5) Yearbook of Statistics, Singapore 1982/83 (6) Statistical Yearbook Thailand, No. 32 1976-80, National Statistical Office

Fig. 1. Population Pyramid (1)

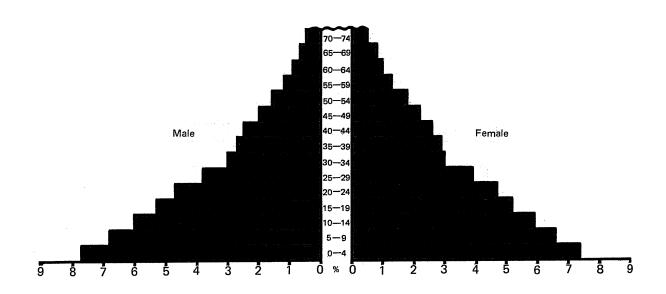
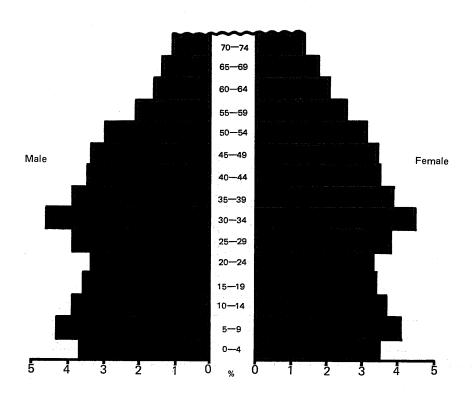
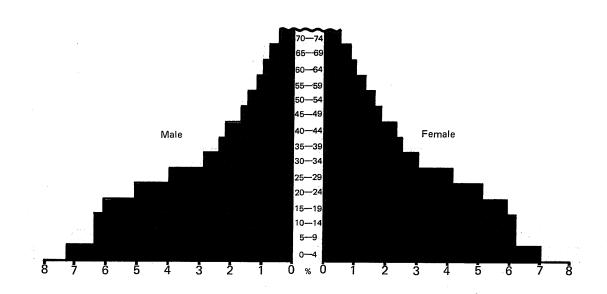


Fig. 1. Population Pyramid (2)



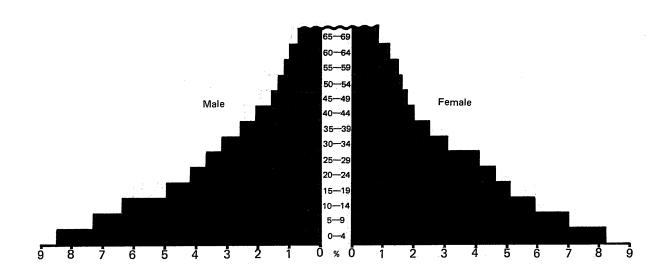
JAPAN 1980

Fig. 1. Population Pyramid (3)



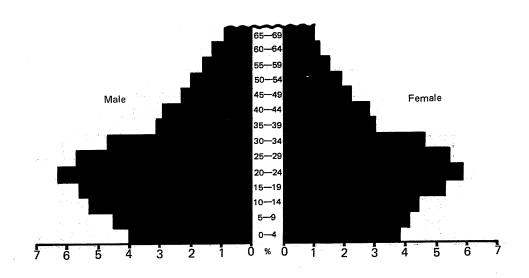
PENINSULAR MALAYSIA 1978

Fig. 1.Population Pyramid (4)



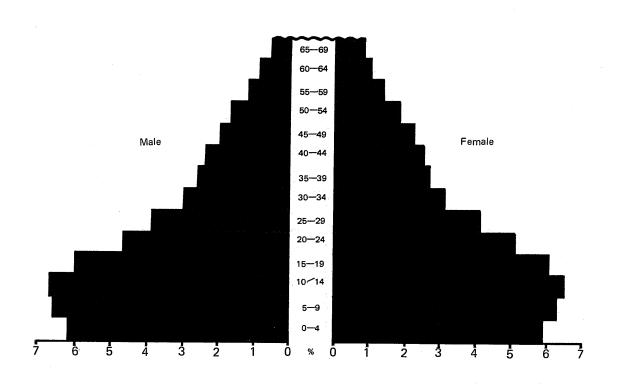
PHILIPPINES 1978

Fig. 1. Population Pyramid (5)

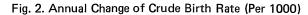


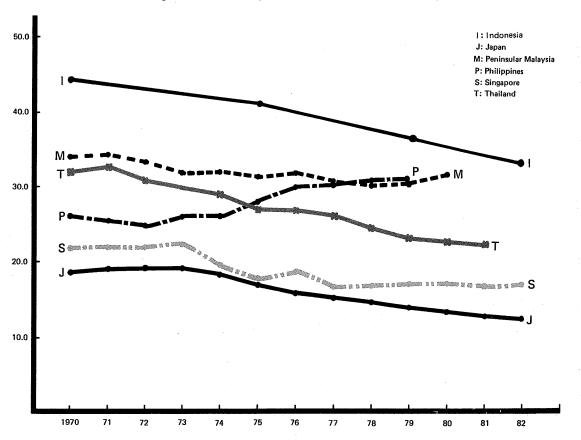
SINGAPORE 1982

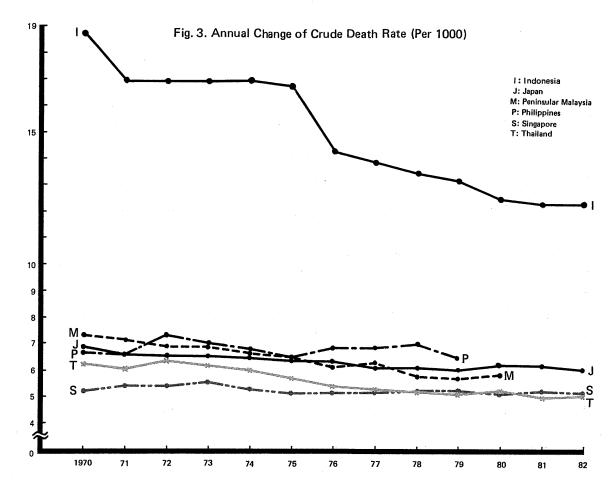
Fig. 1. Population Pyarmid (6)



THAILAND 1980







2-1. Deaths and Death Rates for All Causes (age groups) (1)

(Rate: Per 100,000 Population)

		AllA	Ages	()	1-	-4	5-	-14	15-	-24	25	-34
A .	Sex	Number	Rate	N	R	N	R	N	R	N	R	N	R
INDONESIA (1)	T M F		0.12 ^(a)		1.05		0.20		0.02		0.02		0.03
-	т	722,801	618.2	11,841	746.6	4,457	63.8	4,400	23.2	8,893	55.5	15,045	75.8
JAPAN (2)	M	390,644	679.5	6,754	826.9	2,598	72.7	2,778	28.6	6,387	78.4	9,641	96.6
	F	332,157	558.9	5,087	661.3	1,859	54.5	1,622	17.5	2,506	31.8	5,404	54.8
MALAYSIA	т												
	т	297,034	6.5 ^(b)	73,640	46.2	36,266	6.0	16,365	1.4	15,876	1.8	16,599	2,3
PHILIPPINES (3)	M	169,332	7.5	41,837	51.1	19,403	6.4	9,334	1.5	10,204	2.4	10,681	3.4
	F	127,702	5.6	31,803	41.1	16,863	5.7	7,031	1.2	5,672	1.3	5,918	1.8
5.7 (6)	т	12,855	526.1	447	1,064.3	109	71.3	142	31.8	434	74.8	512	104.4
SINGAPORE (4)	M	7,370	591.4	252	1,161.3	50	62.7	78	33.9	297	99.3	336	134.5
4.5	F	5,485	458.2	195	960.6	59	80.7	64	29.6	137	48.8	176	73.2
(5)	т	247,402	510.2	13,286		12,911		11,689	94.8	18,932	180.2	18,662	250.4
THAILAND (5)	M	144,066	591.1	7,792		7,000		6,607	105.1	12,569	235.9	12,841	339.9
. D. F.	F	103,336	428.5	5,494		5,911		5,082	84.1	6,363	122.9	5,821	158.4

Source: (1) House Hold Health Survey in Indonesia 1980
(2) World Health Statistics Annual 1982, WHO

(3) Philippine Health Statistics, Ministry of Health, Manila 1978
(4) Report on Registration of Births and Deaths, 1981, Department of Statistics, Singapore
(5) World Health Statistics Annual 1982, WHO
Note: (a) rates were calculated by sampling survey

(b) rate: per 1,000 population

2-1. Deaths and Death Rates for All Causes (age groups) (2)

	Sex	35-4	14	45-54		55	5-64	65	-74	75 8	k over	Unknow
	Sex	Number	Rate	N	R	N	R	N	R	N	R	N
INDONESIA	T M F		0.07		0.15		0.	44				
			70.5		-						-	
	Т	27,586	157.4	60,299	395.6	86,885	860.5	172,990	2,496.1	330.077	9,058.1	28
JAPAN	M	17,814	203.8	39,942	528.4		1,168.3	101,067	3.333.2	151,195	10,558.3	76
	F	9,772	111.2	20,357	264.9	34,693	616.2	71,423	1,845.0	178,882	8,086.9	52
	т											
MALAYSIA	М											
	F										1	
	т	18,124	4.3	21,106	7.2	27,306	12.2	70,365	48.3			1,387
PHILIPPINES	M	11,340	5.3	13,242	9.7	16,332	16.3	36.095	52.8		- 1	864
	F	6,784	3.3	7,864	5.1	10,974	8.9	34,270	44.3			523
	т	569	208.3	1,392	672.5	2,340	1,741.1	3,479	4,117.2	3,384	10,348.6	47
SINGAPORE	M	355	256.5	888	837.7	1,538	2,238.7	2,087	5,230.6	1.450	11,417.3	39
	F	214	158.9	504	499.0	802	1,220.7	1,392	3,121.1		9,670.0	8
	т	19,342	402.9	28,553	1,306.2	32,416	1,482.9	38,060	3,392.2	46,757	11,001.6	6,794
THAILAND	M	12,370	513.1	17,778	1,131.6	100	1,883.7	21,610	4,220.7	21,987	12,422.0	3,940
**************************************	F	6,972	291.7	10,775	639.1	12.844	1,119.8	16,450	2,696.7	24,770	9,987.9	2,854

3-1. Ten Leading Causes of Death (1)

	Year	1	2	3	4	5
INDONESIA ⁽¹⁾	1980	Lower Respiratory Tract Infection	Diarrhoea	Cardiovascular Disorders	Tuberculosis	Tetanus
JAPAN ⁽²⁾	1981	Malignant Neoplasms	Cerebrovascular Diseases	Heart diseases	Pneumonia and Bronchitis	Senility without Mention of Psychosis
MALAYSIA						
PHILIPPINES ⁽³⁾	1978	Infective and Parasitic Diseases	Diseases of the Respiratory System	Diseases of the Circulatory System	Symptoms and III- defined Conditions	Certain Causes of Perinatal Mortality
SINGAPORE (4)	1981	Diseases of the Circulatory System	Neoplasms	Diseases of the Respiratory System	Accidents, Poisonings and Violence	Infective and Parasitic Diseases
THAILAND	1982	Symtoms, Signs and III-defined conditions	Accidents, Poisonings and Violence	Diseases of the Circulatory System	Infective and Parasitic Diseases	Neoplasms

Source: (1) House Hold Health Survey in Indonesia 1980

 ⁽²⁾ Health and Welfare Statistics Association, Japan 1983
 (3) Philippine Health Statistics Ministry of Health, Manila 1978
 (4) Report on Registration of Births and Deaths, Singapore 1981

3-1. Ten Leading Causes of Death (2)

# (#)	Year	6	7	8	9	10
INDONESIA ⁽¹⁾	1980	Diseases of the Nervous System	Liver Disorders	Injuries and Accidents	Neoplasms	Typhoid
JAPAN (2)	1981	Accidents	Suicide	Cirrhosis of lirer	Hypertensive Diseases	Renal Diseases
MALAYSIA					*	
PHILIPPINES ⁽³⁾	1978	Accidents, Poisonings and Violence	N'eoplasms	Diseases of the Digestive System	Endocrine, Nutritional and Metabolic Diseases	Diseases of the Nervous System and Sense Organs
SINGAPORE (4)	1981	Endcrine, Nutritional and Metabolic Diseases and Immunity Disorders	Symptoms, Signs and III-defined Conditions	Diseases of Digestive System	Diseases of the Genito- urinary System	Certain Condition Originating in the Perinatal Period
THAILAND	1982	Diseases of the Digestive System	Diseases of the Respiratory System	Diseases of the Nervous System and Sense Organ	Diseases of Genito- urinary System	Certain Condition Originating in the Perinatal Period

4-1. Deaths and Death Rates by Cause (ICD-8 "A") (1)

(Rate: Per 100,000 Population)

						I (A1-	-A44)	A2		A	5		46
		Year	Sex	All Cau		Infection Parasitic		Typhoid	Fever	Other D	tis and iarrhoeal eases	Tuber of Resp	
				Number	Rate	N	R	N	R	N	R	N	R
	INDONESIA (1)	1980	T M F	;	746.3		295.2		24.7		130.3		62.7
	JAPAN	1978	T M F	659,821 6 375,625 6 320,196 8	666.5	13,766 8,678 5,088	12.0 15.4 8.7	1 - 1	0.0 - 0.0	2,317 962 1,355	2.0 1.7 2.3	7,917 5,780 2,137	6.9 10.3 3.7
	MALAYSIA		T M F			*		Y			jā.	<u>.</u>	
2 2	PHILIPPINES (2)	1978	T M F	297,034 6 169,332 7 127,702 5	748.3	66,511 38,340 28,171	146.1 169.4 123.0	769 482 287	1.7 2.1 1.3	15,717 8,906 6,811	34.5 39.4 29.7	27,178 15,806 11,372	59.7 69.9 49.7
	SINGAPORE	1978	T M F	12,064 5 7,025 5 5,039 4	90.6	502 354 148	21.5 29.8 12.9	1 - 1	0.0 _ 0.1	54 27 27	2.3 2.3 2.4	287 246 41	12.3 20.7 3.6
	THAILAND	1978	T M F	233,216 5 133,975 5 99,241 4	592.9	26,075 15,365 10,710	58.0 68.0 47.9	519 297 222	1.2 1.3 1.0	7,427 4,305 3,122	16.5 19.1 13.9	6,614 4,148 2,466	14.7 18.4 11.0

Source: World Health Statistics Annual 1980

(1) House Hold Health Survey in Indonesia 1980
 (2) Philippine Health Statistics, Ministry of Health, Manila 1978

4-1. Deaths and Death Rates by Cause (ICD-8 "A") (2)

			A7-	A10	A	20	A	25		128	Oti	hor
	Year	Sex	Tuberc Other F		Те	tanus	Me	asles		ctious atitis	Dise	
9			N	R	N	R	N	R	N	R	N	R
INDONESIA	1980	T M F				48.6		2.5				13.:
JAPAN	1978	T M F	344 169 175	0.3 0.3 0.3	63 36 27	0.1 0.1 0.0	181 100 81	0.2 0.2 0.1	984 562 422	0.9 1.0 0.7	1,959 1,069 890	1.5
MALAYSIA		T M F										
PHILIPPINES	1978	T M F	1,220 659 561	2.7 2.9 2.4	3,471 2,101 1,370	7.6 9.3 6.0	5,605 2,839 2,766	12.3 12.5 12.1	813 529 284	1.8 2.3 1.2	444 289	1, 2. 1.
SINGAPORE	1978	T M F	31 25 6	1.3 2.1 0.5	4 1 3	2.5 _ 5.2	2 - 2	111	. 8 3 5	=	115 52 63	17. 14. 21.
THAILAND	1978	T M F	140 84 56	0.3 0.4 0.3	1,539 916 623	3.4 4.1 2.8	.96 39 57	0.2 0.2 0.3	6 2 4	0.0 0.0 0.0	9,734 5,574 4,160	21.6 24.7 18.6

(Rate: Per 100,000 Population)

II (A45	i–A61)	A	45	A41	6	Α	47	A48	В	A4	9	A5	0	A	51
Neopla		Neopl Buccal and P	gnant asm of Cavity harynx	Maligi Neopla Oesopi	sm of nagus	Malig Neopla Ston	sm of nach	Malign Neoplasi Intestine, Rectu	m of Except im	Malignant Modern of Rectu Rectosig Junct	ım and imoid ion	Malig Neopla Lary	sm of nx	Malig Neopla Trachea, and I	sm of Bronchu _ung
N	R	N	R	N	·R	N	R	N	R	N	R	N	R	N	R
	1.6		23.9												
156,522	136.7	1,551	1,4	5,325	4.7	49,564	43.3	7,411	6.5	6,402	5.6	873	0.8	18,530	16.2
88,958 67,564	157.8	1,052 499	1.9 0.9	4,130 1,195	7.3 2.1	30,136 19,428	53.5 33.4	3,515 3,896	6.2 6.7	3,504 2,898	6.2 5.0	766 107	1.4 0.2	13,417 5,113	23.8 8.8
4,745	32.4	984	2.2	160	0.4	1,216	2.7	575	1.3	200	0.4	128	0.3	1,454	3.2
7,862	34.7	538	2.4	86	0.4	699	3.1	331	1.5	128	0.6	84	0.4	1,063	4.7
6,883	30.1	446	1.9	74	0.3	517	2.3	244	1.1	72	0.3	44	0.2	391	1.7
2,415	15.2	161 112	_	107 94	4.6 7.9	324 224	13.9 18.8	137 67	5.9 5.6	108 65	4.6 5.5	33 31	1.4 2.6	520 375	22.3 31.5
1,481 934	14.7 15.7	49	_	13	1.1	100	8.7	70	6.1	43	3.8	2	0.2	145	12.7
8,296	18.4	404	0.9	147	0.3	275	0.6	362	0.8	10	0.0	29 23	0.1 0.1	742 542	1.6 2.4
4,591 3,705	20.3 16.6	258 146	1.1 0.7	111 . 36	0.5 0.2	178 97	0.8 0.4	206 156	0.9 0.7	9	0.0	23 6	0.0	200	0.9

4-1. Deaths and Death Rates by Cause (ICD-8 "A") (3)

			A52	A53	A54	A55	A56
	Year	Sex	Malignant Neoplasm of Bone N R	Malignant Neoplasm of Skin N R	Malignant Neoplasm of Breast N R	Malignant Neoplasm of Cervix Uteri N R	Other Malignant Neoplasm of Uterus N R
INDONESIA	1980	T M F					
JAPAN	1978	T M F	670 0.6 370 0.7 300 0.5	748 0.7 395 0.7 353 0.6	3,788 3.3 33 0.1 3,755 6.5	1,701 2.9	4,009 6.9
MALAYSIA		T M F					
PHILIPPINES	1978	T M F	491 1.1 300 1.3 191 0.8	130 0.3 74 0.3 56 0.2	909 2.0 45 0.2 864 4.0	207 0.9	652 2.8
SINGAPORE	1978	T M F	19 0.8 9 0.8 10 0.9	12 0.5 7 0.6 5 0.4	117 5.0 — — 117 10.2	69 6.0	14 1.2
THAILAND	1978	T M F	126 0.3 67 0.3 59 0.3	27 0.1 14 0.1 13 0.1	145 0.3 145 0.6	136 0.6	423 1.9

(Rate: Per 100,000 Population)

A57		A5	8	A5	9	A	60	A6	1	III (A6	2-A66)	Α	64	م	65
Malignan Neoplasm Prostate N	of	Malig Neople Othe Unspecif N	asm of r and	Leuka N	semia R	Other Nof Lymp Haemat Tiss	hatic and opoletic	Benign N and Neor Unspe Nat N	olasm of cified	Endo Nutritio Metabolic N	nal and		etes litus R	Other N	inoses and lutritional ciency R
													2.5		
1,499	2.7	39,551 21,655 17,896	34.5 38.4 30.8	4,354 2,505 1,849	3.8 4.4 3.2	4,360 2,653 1,707	3.8 4.7 2.9	6,186 3,328 2,858	5.4 5.9 4.9	11,093 5,286 5,807	9.7 9.4 10.0	9,685 4,632 5,053	8.5 8.2 8.7	465 240 225	0.4 0.4 0.4
-		5,305	11.7	1,187	2.6	353	8.0	587	1.3	10,571	23.2	1,522	3.3	8,756	19.2
207	0.9	3,192	14.1	626	2.8	215	1.0	274	1.2	5,574	24.6	720	3.2	4,721	20.9
		2,113	9.2	561	2.4	138	0.6	313	1.4	4,997	21.8	802	3.5	4,035	17.6
14	1.2	611 388 223	26.2 32.6 19.5	78 41 37	3.3 3.4 3.2	62 38 24	2.7 3.2 2.1	29 16 13	1.2 1.3 1.1	403 160 243	17.3 13.5 21.2	334 137 197	14.3 11.5 17.2	37 12 25	1.6 1.0 2.2
14 (0.1	5,132 2,975 2,157	11.4 13.2 9.6	188 96 92	0.4 0.4 0.4	131 96 35	0.3 0.4 0.2	5 2 3	0.0 0.0 0.0	2,432 1,215 1,217	5.4 5.4 5.4	1,102 522 580	2.5 2.3 2.6	1,273 668 605	2.8 3.0 2.7

4-1. Deaths and Death Rates by Cause (ICD-8 "A") (4)

And the second s				the second second			
				IV (A67 & A68)	A67	A68	V (A69—71)
	Year	Sex	Other Diseases N R	Diseases of Blood and Blood- forming Organs N R	Anaemias N R	Other Diseases of Blood and Blood- forming Organs N R	Mental Disorders
INDONESIA	1980	T M F			0.8		
JAPAN	1978	T M F	943 0.8 414 0.7 529 0.9	2,118 1.8 951 1.7 1,167 2.0	1,445 1.3 622 1.1 823 1.4	673 0.6 329 0.6 344 0.6	2,719 2.4 1,460 2.6 1,253 2.2
MALAYSIA		T M F					
PHILIPPINES	1978	T M F	293 0.6 133 0.6 160 0.7	1,984 4.4 1,016 4.5 968 4.2	1,617 3.6 822 3.6 795 3.5	367 0.8 194 0.9 173 0.8	379 0.8 255 1.1 124 0.5
SINGAPORE	1978	T M F	32 1.4 11 0.9 21 1.8	45 1.9 14 1.2 31 2.7	38 1.6 12 1.0 26 2.3	7 0.3 2 0.2 5 0.4	16 0.7 9 0.8 7 0.6
THAILAND	1978	T M F	57 0.1 35 0.1 32 0.1	479 1.1 252 1.1 227 1.0	396 0.9 207 0.9 189 0.8	83 0.2 45 0.2 38 0.2	522 1.2 443 2.0 79 0.4

(Rate: Per 100,000 Population)

A6	9		70		71	VI (A7	2—A79)	A	72	A	73	A	74		
Psych	noses	Neuroses Disorders Nonps Mental Di		Retar	ntal dation	Nervous and Sens	s of the System e Organs	Menir	ngitis	Multiple	Sclerosis	Epil	lepsy	Oti Dise	
N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R
									37.0						
·····															
1,742	1.5	917	8,0	. 60	0.1	6,082	5.3	895	0.8	78	0.1	682	0.6	4,427	3.9
679	1.2	752	1.3	35	0.1	3,358	6.0	527	0.9	31	0.1	381	0.7	2,419	4.3
1,063	1.8	165	0.3	25	0.0	2,724	4.7	368	0.6	47	0.1	301	0.5	2,008	3.5
											-				
153	0.3	219	0.5	7	0.02	5,170	11.4	2,977	6.5	3	0.01	728	- 10	4 400	
73	0.3	175	0.8	7	0.03	2,824	12.5	1,623	7.2	1	0.004		1.6	1,462	3.2
80	0.3	44	0.2	<u> </u>	u	2,346	10.2	1,354	5.9	2	0.004	396 332	1.8 1.4	804 658	3.6 2.9
10	0.4	1	0.0	5	0.2	114	4.9	39	1,7	2	0,1				
4	0.3	1	0.1	4	0.2	55	4.6	22	1.8	_	0.1	8	0.3 0.3	65 30	2.8 2.5
6	0.5	_	-	1	0.1	59	5.2	17	1.5	2	0.2	5	0.4	35	3.1
28	0.1	494	1.1	_	_	4,745	10,6	864	1.9	2	0.0	211	0.5	3,668	8.2
20	0,1	423	1.9	-	-	2,834	12.5	508	2.2	2	0.0	131	0.6	2,193	9.7
8	0.1	71	0.3	-	-	1,911	8.5	356	1.6	_	-	80	0.4	1,475	6.6

4-1. Deaths and Death Rates by Cause (ICD-8 "A") (5)

			VII (A80-A88)	A80	A81	A82	A83
	. Year	Sex	Diseases of the Circulatory System	Active Rheumatic Fever	Chronic Rheumatic Heart Disease	Hypertensive Diseases	Ischaemic Heart Disease N R
	_		N R	N N	N R	N R	N U
INDONESIA	1980	T M F					55.2
JAPAN	1978	T M F	299,845 261.8 151,651 269.1 148,194 254.9	269 0.2 114 0.2 155 0.3	3,619 3.2 1,435 2.5 2,184 3.8	18,779 16.4 8,062 14.3 10,717 18.4	45,620 39.8 25,187 44.7 20,433 35.1
MALAYSIA		T M F					
PHILIPPINES	1978	T M F	44,549 97.8 24,750 109.4 19,799 86.5	89 0.2 49 0.2 40 0.2	2,323 5.1 1,074 4.7 1,249 5.5	8,828 19.3 4,955 21.9 3,873 16.9	12,426 27.3 7,346 32.5 5,080 22.2
SINGAPORE	1978	T M F	3,983 170.6 2,182 183.4 1,801 157.3	2 0.1 2 0.2 — —	96 4.1 42 3.5 54 4.7	262 11.2 122 10.3 140 12.2	1,749 74.9 1,081 90.9 668 58.3
THAILAND	1978	T M F	11,377 25.3 6,976 30.9 4,401 19.7	39 0.1 9 0.0 30 0.1	248 0.6 130 0.6 118 0.5	1,539 3.4 916 4.1 623 2.8	206 0,5 125 0.6 81 0.4

(Rate: Per 100,000 Population)

A8	14	A	35	A	36	AE	37	A8	8	VIII (A8	9A96)	A8	9	A	90
Other Fo		Cerebro Dise		Diseas Arteries, A and Cap	rterioles	Ven Thrombo Embo	sis and	Other D of Circu Sys		Diseases Respira Syst	atory	Acu Respira Infect	itory	Influ	enza
N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R
															132.8
57,547 28,021 29,526	50.3 49.7 50.8	167,452 85,308 82,144	151.4	5,584 2,947 2,637	4.9 5.2 4.5	247 130 117	0.2 0.2 0.2	728 447 281	0.6 0.8 0.5	49,452 28,454 20,998	43.2 50.5 36.1	3,711 1,729 1,982	3.2 3.1 3.4	707 368 339	0.6 0.7 0.6
9,604	21.1	7,675	16.9	2,254	5.0	382	0.8	968	2.1	59,868	131.5	3,447	7.6	1,898	4.2
4,998 4,606	22.1 20.1	4,506 3,169	19.9 13.8	1,088 1,166	4.8 5.1	188 194	0.8 0.8	546 422	2.4 1.8	32,378 27,490	143.1 120.0	1,895 1,552	8.4 6.8	992 906	4.4 4.0
411 232 179	17.6 19.5 15.6	1,382 654 728	59.2 55.0 63.6	58 33 25	2.5 2.8 2.2	10 6 4	0.4 0.5 0.3	13 10 3	0.6 0.8 0.3	1,724 1,010 714	73.9 84.9 62.4	7 5 2	0.3 0.4 0.2	19 11 8	0.8 0.9 0.7
5,307 3,226 2,081	11.8 14.3 9.3	3,790 2,419 1,371	8.4 10.7 6.1	15 9 6	0.0 0.0 0.0	5 3 2	0.0 0.0 0.0	228 139 89	0.5 0.6 0.4	23,330 13,332 9,998	51.9 59.0 44.7	14,992 8,339 6,653	33.3 36.9 29.7	871 454 417	1.9 2.0 1.9

4-1. Deaths and Death Rates by Cause (ICD-8 "A") (6)

	•		1.5	A91 &	A92	A9	3			IX (A97	-A104)	A9	8
		Year	Sex	Pneun	nonia	Brond Emphy and As	/sema	Dise		Diseases Digestive	System	Peptic	Ulcer
				N	R	N	R	N	R	N	R .	N	R
IND	ONESIA	1980	T M F		132.8		16.5						
JÁP	AN	1978	T M F	28,241 15,653 12,588	24.7 27.8 21.6	12,186 7,623 4,563	10.6 13.5 7.8	4,607 3,081 1,526	4.0 5.5 2.6	38,144 23,116 15,028	33.3 41.0 25.8	5,810 3,641 2,169	5.1 6.5 3.7
MAI	LAYSIA		T M F										
PHII	_IPPINES	1978	T M F	45,667 24,681 20,986	100.3 109.1 91.6	5,929 3,278 2,651	13.0 14.5 11.6	2,927 1,532 1,395	6.4 6.8 6.1	12,221 8,406 3,815	26.8 37.1 16.7	4,419 2,996 1,423	9.7 1.2 0.7
SIN	GAPORE	1978	T M F	942 473 469	40.4 39.8 41.0	240 149 91	10.3 12.5 7.9	516 372 144	22.1 31.3 12.6	359 231 128	15.4 19.4 11.2	70 41 29	3.0 3.4 2.5
THA	ILAND	1978	T M F	5,308 3,201 2,107	11.8 14.2 9.4	1,240 768 472	2.8 3.4 2.1	919 570 349	2.8 3.4 2.1	10,705 7,050 3,655	23.8 31.2 16.3	1,233 881 352	2.7 3.9 1.6

(Rate: Per 100,000 Population)

A10	00	A10	1	A10	2	A10	3			X (A105	-A111)	A10	06 .	A10	07
Append	licitis	Intest Obstructi Herr	on and	Cirrhosis o	f Liver	Cholelit and Chole		Oth Disea	ases	Disease Genito-u Syste	rinary	Other N and Ne	phrosis	Infecti Kid	ney
N	R	N	R	N	R	N ·	R	N	R	N	R.	N	R	N	R
	3.3		4.9		30.5								6.6		
262 127 135	0.2 0.2 0.2	2,477 1,204 1,273	2,2 2,1 2,2	16,077 11,678 4,399	14.0 20.7 7.6	2,691 1,080 1,611	2.3 1.9 2.8	10,827 5,386 5,441	9.5 9.6 9.4	11,189 5,564 5,625	9.8 9.9 9.7	5,499 2,754 2,745	4.8 4.9 4.7	1,468 435 1,033	1.3 0.8 1.8
427	0.9	1,748	3.8	1,942	4.3	129	0.3	3,556	7.8	5,137	11.3	3,295	7.2	493	1.1
273	1.2	1,128	5.0	1,479	6.5	66	0.3	2,464	10.9	2,933	13.0	1,871	8.3	294	1.3
154	0.7	620	2.7	463	2.0	63	0.3	1,092	4.8	2,204	9.6	1,424	6.2	199	0.9
5 3 2	0.2 0.3 0.2	21 11 10	0,9 0,9 0,9	118 84 34	5.1 7.1 3.0	13 9 4	0.6 0.8 0.3	132 83 49	5.7 7.0 4.3	381 181 200	16.3 15.2 17.5	296 138 158	12.7 11.6 13.8	16 6 10	0.7 0.5 0.9
181 102 79	0.4 0.5 0.4	291 189 102	0.6 0.8 0.5	1,684 1,198 486	3.7 5.3 2.2	195 126 69	0.4 0.6 0.3	7,121 4,554 2,567	15.8 20.2 11.5	2,531 1,355 1,176	5.6 6.0 5.3	1,792 1,002 790	4.0 4.4 3.5	11 8 3	0.0 0.0 0.0

4-1. Deaths and Death Rates by Cause (ICD-8 "A") (7)

***			A10	9			XI (A112	-A118)	XII (A119	& A120)	XIII (A12	1-A125)
	Year	Sex	Hyperi of Pro		Other Diseas N		Complica of Pregn Childbirt	ancy	Diseases Skin an cutaneou N	d Sub-	Disease Musculo Syste Connecti N	skeletal m &
INDONESIA	1980	T M F						5.8				
JAPAN	1978	T M F	,622	1.1	3,600 1,753 1,847	3.1 3.1 3.2	378	0.7	875 349 526	0.8 0.6 0.9	4,008 962 3,046	3.5 1.7 5.2
MALAYSIA		T M F					·					
PHILIPPINES	1978	T M F	51	0.2	1,298 717 581	2.9 3.2 2.5	1,734	7.6	920 935 385	2.0 2.4 1.7	644 390 254	1.4 1.7 1.1
SINGAPORE	1978	T M F	10	0.8	59 27 32	2.5 2.3 2.8	8	0.7	23 11 12	1.0 0.9 1.0	38 8 30	1.6 0.7 2.6
THAILAND	1978	T M F	6	0.0	722 339 383	1.6 1.5 1.7	1,306	5.8	145 88 57	0.3 0.4 0.3	50 26 24	0.1 0.1 0.1

(Rate: Per 100,000 Population)

A1:	21			XIV (A12	6-A130)	A1	26	A1:	27	195		XV (A13	1-A135)	XVI(A136	6& A137
Arthrit Spond		Oti Dise		Conge Anoma		Spina I	Bifida R	Conge Anom of He	alies	Othe Diseas N	250	Certain of Per Mort N	inatal	Sympto III-def Condi N	fined
									3.3		-		-		35.5
2,571 593 1,978	2.2 1.1 3.4	1,437 369 1,068	1.3 0.7 1.8	5,551 3,010 2,541	4.8 5.3 4.4	83 44 39	0.1 0.1 0.1	3,109 1,651 1,458	2.7 2.9 2.5	2,359 1,315 1,044	2.1 2.3 1.8	6,629 3,886 2,746	5.8 6.9 4.7	34,364 15,598 20,766	30.0 24.1 35.7
317	0.7	327	0.7	2,866	6.3	18	0.04	1,587	3.5	1,261	2.8	16,764	36.8	32,076	70.5
192	0.8	198	0.9	1,591	7.0	10	0.04	900	4.0	681	3.0	9,680	42.8	16,558	73.2
125	0.5	129	0.6	1,275	5.6	- 8	0.03	687	3.0	580	2.5	7,084	30.9	15,518	67.8
10	0.4	28	1.2	184	7.9	4	0,2	98	4.2	82	3.5	239	10.2	573	24.5
3	0.3	5	0.4	122	10.3	2	0.2	65	5.5	55	4.6	151	12.7	266	22.4
7	0.6	23	2.0	62	5.4	2 .	0.2	33	2.9	27	2.4	88	7.7	307	26.8
12	0.0	38	0.1	840	1.9	-	-	461	1.0	379	0.8	3,663	8.1	109,407	243.3
6	0.0	20	0.1	380	1.7	-		147	0.7	233	1.0	2,348	10.4	57,051	252.5
6	0.0	. 18	0.1	460	2.1	_	-	314	1.4	146	0.7	1,315	5.9	52,356	233.9

4-1. Deaths and Death Rates by Cause (ICD-8 "A") (8)

AN			A136	A137	XVII (AE138-AE150)	AE138	AE139
	Year	Sex	Senility without Mention of Psychosis	Symptoms and Other III-defined Conditions	Accidents, Poisonings and Violence	Motor Vehicle Accidents	Other Transport Accidents
			N R	N R	N R	N R	N R
INDONESIA	1980	T M F		38.5			
JAPAN	1978	T M F	27,976 24.4 9,907 17.6 18,069 31.1	6,388 5.6 3,691 6.5 2,697 4.0	53,086 46.4 36,338 64.5 16,748 28.8	12,030 10.5 9,118 16.2 2,912 5.0	1,656 1.4 1,360 2.4 296 0.5
MALAYSIA		T M F					
PHILIPPINES	1978	T M F	12,647 27.8 5,440 24.0 7,207 31.5	19,429 42.7 11,118 49.1 8,311 36.3	16,112 35.4 12,761 56.4 3,351 14.6	2,284 5.0 1,633 7.2 651 2.8	79 0.2 64 0.3 15 0.07
SINGAPORE	1978	T M F	496 21.2 215 18.1 281 24.5	77 3.3 51 4.3 26 2.3	1,057 45.3 790 66.4 267 23.3	299 12.8 244 20.5 55 4.8	34 1.5 27 2.3 7 0.6
THAILAND	1978	T M F	45,943 102.2 21,573 95.5 24,370 108.9	63,464 141.1 35,478 157.0 27,986 125.0	27,313 60.7 20,669 91.5 6,664 29.7	6,421 14.3 4,793 21.2 1,628 7.3	204 0.5 155 6.7 49 0.2

(Rate: Per 100,000 Population)

AE	140	AE1	41	AE1	42	AE1	43	AE1	44	AE	145	AE1	46	AE14	17
	dental oning	Accident	al Falls	Accidents by F		Accide Drownin Subme	g and	Accident by Fir Miss	earm	Accident of Ind Ty	ustrial pe	All O	ents	Suicide a Inflicted	-Injury-
N	R	N:	R .	N	R	N	R	N	R	N	R	N	R	N	R
754	. 0.7	4,427	3.9	1,564	1.4	3,803	3.3	14	0.0	2,338	2.0	3,431	3.0	20,199	17.6
474	0.8	3,611	5.3	920	1.6	2,808	5.0	14	0.0	2,009	3.6	2,335	4.1	12,409	22.0
280	0.5	1,416	2.4	644	1.1	995	1.7	_	-	329	0.6	1,096	1.9	7,790	13.4
216	0.5	748	1.6	432	0.9	2,687	5.9	-	-	304	0.7	1,241	2.7	415	0.9
115	0.5	554	2.4	247	1.1	1,858	8.2	-	_	252	1.1	934	4.1	231	1.0
101	0.4	194	0.8	185	0.8	829	3.6	_		52	0.2	307	1.3	184	8.0
10	0.4	36	1.5	7	0,3	30	1.3	1	0.0	107	4.6	31	1.3	266	11.4
. 9	8.0	28	2.4	2	0.2	22	1.8	1	0.1	99	8.3	22 9	1.8 0.8	155	13.0
1	0.1	8	0.7	5	0.4	8	0.7			8	0.7	ļ		111	9.7
283	0.6	308	0.7	282	0.6	2,477	5.5	411	0.9	799	1.8	4,462	9.9	2,458	5.5
171	0.8	221	1.0	156	0.7	1,569	6.9	359	1,6	626	2.8	3,237	14.3	1,293 1,165	5.7 5.2
112	0.5	87	0.4	126	0.6	908	4.1	52	0.2	173	8.0	1,225	5.5	1,165	5.2

4-1. Deaths and Death Rates by Cause (ICD-8 "A") (9)

A SECTION OF SECTION O	·					
			AE148	AE149	AE150	_
	Year	Sex	Homicide & Injury Purposely Inflicted by Other Persons; Legal Intervention	Injury Undeter- mined whether Accidentally or Purposely Inflicted	Injury Resulting from Operations of War	or External Gauses
			N R	N R	N R	N R
INDONESIA	1980	T M F			0.0 0.0 	
JAPAN	1978	T M F	1,306 1.1 754 1.3 552 0.9	1,557 1.4 1,119 2.0 438 0.8	7 0.0 7 0.0 — —	
MALAYSIA		T M F				
PHILIPPINES	1978	T M F	452 1.0 412 1.8 40 0.2	6,593 14.5 5,834 25.8 759 3.3	661 1.5 627 2.8 34 0.1	4,783 10.5 3,479 15.4 1,304 5.7
SINGAPORE	1978	T M F	39 1.7 32 2.7 7 0.6	197 8.4 147 12.5 48 4.2	 	
THAILAND	1978	T M F	9,202 20.5 8,084 35.8 1,118 5.0	6 0.0 5 0.0 1 0.0	 	

4-2. Deaths and Death Rates by Cause (ICD-9 "A") (1)

(Rate: Per 100,000 Population)

					01-	07	01	11	010, 019,	012-016	020	-021
	Year	Sex	All Car		Infectio Parasitic N		Typhoid	Fever		ntestinal etious eases R		ulosis of ratory tem R
INDONESIA ⁽¹⁾	1980	T M F						*1		1.87		
JAPAN ⁽²⁾	1980	T M F	722,801 390,644 332,157	618.2 679.5 558.9	11,938 7,527 4,411	10.2 13.1 7.4	1 1 -	0.0 0.0 —	1,599 679 920	1.4 1.2 1.5	6,144 4,555 1,589	5.3 7.9 2.7
MALAYSIA		T M F										
PHILIPPINES		T M F			E G			4				
SINGAPORE (3)	1981	T M F	12,855 7,370 5,485	526.1 591.4 458,2	432 299 133	17.7 24.0 11.1	2 2 -	0.1 0.2	52 28 24	2.1 2.2 2.0	198 158 40	8.1 12.7 3.3
THAILAND (4)	1982	T M F	247,402 144,066 103,336	510.2 591.1 428.5	18,970 11,508 7,462	39.1 47.2 30.9	194 116 78	0.4 0.5 0.3	3,063 1,729 1,334	6.3 7.1 5.5	5,771 3,850 1,921	11.9 15.8 8.0

Source: (1) Hospital Data, 1981, Directorate Serecad Medical Care, WOH
(2) Vital Statistics, Japan, 1980
(3) Ministry of Health, Singapore (official data)
(4) Ministry of Public Health, Thailand (official data)

4-2. Deaths and Death Rates by Cause (ICD-9 "A") (2)

			022-02	25, 029	0	34	0	36		037	0	38
-	Year	Sex	Tubero Other F		Whoopi	ng Cough		gococcal ection	Teta	anus	Septio	aemia
			N	R	N	R	N	R	N	R	N	R
INDONESIA	1980	T M F										
JAPAN	1980	T M F	295 160 135	0.3 0.3 0.2	18 8 10	0.0 0.0 0.0	7 5 2	0.0 0.0 0.0	45 28 17	0.0 0.0 0.0	1,357 663 694	1.2 1.2 1.2
MALAYSIA		T M F										
PHILIPPINES		T M F										
SINGAPORE	1981	T M F	23 15 8	0.9 1.2 0.7		=	1 1 -	0.0 0.1	111	=	84 47 37	3.4 3,8 3.1
THAILAND	1982	T M F	49 30 19	0.1 0.1 0.1	18 5 13	0.0 0.0 0.0	1 - 1	0.0 - 0.0	542 326 216	1.1 1.3 0.9	2,5.71 1,418 1,153	5.3 5.8 4.8

(Rate: Per 100,000 Population)

030–033,	035,039	04	12	040,041,0	043-049	0	52	.050,05 054	1,053, ,059	0	3	07		08-	-14
Other B		Mea	sles	Other Dise		Ma	laria		rthropod- Diseases	Vene Dise	ases	Dise	rasitic ases	Malig Neop	lasms
N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R
			0.04 ^(a)				0.25					_	-	,	1.14
107	0.1	50	0.0	1,404	1.2	6	0.0	2	0.0	141	0.1	762	0.7	161,764	138.4
66	0.1	22	0.0	793	. 1.4	5	0.0	1	0.0	82	0.1	459	8.0	93,501	162.6
41	0.1	28	0.0	611	1.0	1	0.0	1	0.0	59	0.1	303	0.5	68,263	114.9
					:										
8	0.3	1	0.0	39	1.6	1	0.0	_	-	5	0.2	18	0.7	2,616	107.1
7	0.6	_	_	21	1.7	1	0.1	_	_	4	0.3	15	1.2	1,529	122.7
1	0.1	1	0.1	18	1.5	-	_	_		1	0.1	3	0.3	1,087	90.8
412	0.8	94	0.2	1,328	2.7	3,779	7.7	-	-	13	0.0	1,135	2.3	12,653	26.1
240	1.0	49	0.2	746	3.1	2,340	9.6	-	-	8	0.0	651	2.7	7,122	29.1
172	0.7	45	0.2	582	2.4	1,439	6.0	-		5	0.0	484	2.0	5,531	22.9

Note: (a) Rates were calculated by Sampling Survey

4-2. Deaths and Death Rates by Cause (ICD-9 "A") (3)

			08	В	09	90	-	91	Ι ,	93		94
	Year	Sex	Malign Neoplasm Oral Cav Phary N	ant of Lip, ity and	Malig Neop of Oeso	lasm	Mali Neo	gnant plasm omach R	Mali Neo	gnant olasm Colon R	Malignant of Re Rectos	Neoplasm ctum, igmoid and Anus R
INDONESIA	1980	T M F										
JAPAN	1980	T M F	1,825 1,233 592	1.6 2.1 1.0	5,733 4,490 1,243	4.9 7.8 2.1	50,443 30,845 19,598	43.1 53.7 33.0	7,932 3,842 4,090	6.8 6.7 6.9	6,917 3,933 2,984	5.9 6.8 5.0
MALAYSIA		T M F										
PHILIPPINES		T M F										
SINGAPORE	1981	T M F	184 138 46	7.5 11.1 3.8	104 80 24	4.3 6.4 2.0	309 191 118	12.6 15.3 9.9	187 84 103	7.7 6.7 8.6	92 39 53	3.8 3.1 4.4
THAILAND	1982	T M F	418 275 143	0.9 1.1 0.6	231 172 59	0.5 0.7 0.2	378 243 135	0.8 1.0 0.6	408 232 176	0.8 1.0 0.7	21 10 11	0.0 0.0 0.0

(Rate: Per 100,000 Population)

09	95	.1	100	10)1	1,1	3	12	20	1	22	12	4	126	6
	Neoplasm Specified rimary	Neop	gnant lasm of ynx R	Malignant of Tr Bronchus N	achea,	Malig Neopla Female N		Neopi	gnant asm of t Uteri R	Neopl: Uterus	gnant asm of , Other Jospec R	Neopla	gnant asm of state R	Malig Neopta Blac N	sm of
8,758 6,361 2,397	7.5 11.0 4.0	866 736 130	0.7 1.3 0.2	21,294 15,438 5,856	18.2 26.9 9.9	4,141	7.0	1,745	2.9	3,650	6.1	1,736	3.0	2,361 1,606 755	2.0 2.8 1.3
	<i></i>														
39 32 7	1.6 2.6 0.6	33 31 2	1.4 2.5 0.2	626 459 167	25.6 36.8 14.0		12.0	• • 85	7.1	19	1.6	32	2.6	35 25 10	1.4 2.0 0.8
= =		43 38 5	0.1 0.2 0.0	1,239 903 336	2.6 3.7 1.4	205	0.9	174	0.7	430	1.8	. 28	0.1	78 62 16	0.2 0.3 0.1

4-2. Deaths and Death Rates by Cause (ICD-9 "A") (4)

			Res	it	14	1	140,	149	15-	-17	0.00	181
10 E	Year	Sex	Maligr Neoplas Other S	sm of	Leuka N	emia R	Lymph	alignant asms of atic and poletic R	Othe	leoplasm, r and poified plasm R	Diabete N	s Mellitu
INDONESIA	1980	T M F	E.		3.							0.39
JAPAN	1980	T M F	34,904 17,718 17,186	29.9 30.8 28.9	4,567 2,624 1,943	3.9 4.6 3.3	4,892 2,939 1,953	4.2 5.1 3.3	6,082 3,372 2,710	5.2 5.9 4.6	8,504 4,055 4,449	7.3 7.1 7.5
MALAYSIA		T M · F										
PHILIPPINES		T M F										-
SINGAPORE	1981	T M F	589 351 238	24.1 28.2 19.9	72 31 41	2.9 2.5 3.4	66 36 30	2.7 2.9 2.5	56 30 26	2.3 2.4 2.2	368 148 220	15.1 11.9 18.4
THAILAND	1982	T M F	8,498 4,875 3,623	17.5 20.0 15.0	336 185 151	0.7 0.9 0.6	166 99 67	0.3 0.4 0.3		Ξ	1,604 769 835	3.3 3.2 3.5

(Rate: Per 100,000 Population)

180, 182	2, 183, 189	1	91	1	192	190,	193	20	0		209	2	10	2	20
	docrine and ic Diseases		ritional rasmus	C	Protein- alorie atrition	Other Nu Defici		Anae	mias	Blood	Diseases of and Blood- ng Organs	Mental	Disorders	Meni	ingitis
N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R
					0.21		0.21						0.14		
1,235 546 689	1.1 0.9 1.2	1 1 —	0.0 0.0 —	268 141 127	0.2 0.2 0.2	164 88 76	0.1 0.2 0.1	1,521 707 814	1.3 1.2 1.4	793 408 385	0.7 0.7 0.6	3,017 1,522 1,495	2.6 2.6 2.5	671 391 280	0.6 0.7 0.5
,															
					-							-			
21 11 10	0.9 0.9 0.8	1 - 1	0.0 - 0.1	13 3 10	0.5 0.2 0.8	1 - 1	0.0 _ 0.1	28 12 16	1.1 1.0 1.3	14 9 5	0.6 0.7 0.4	22 13 9	0.9 1.0 0.8	27 19 8	1.1 1.5 0.7
123 44 79	0.3 0.2 0.3	171 63 108	0.4 0.3 0.4	- - -	- - -	625 309 316	1.3 1.3 1.3	222 111 111	0.5 0.5 0.5	107 56 51	0.2 0.2 0.2	1 1 —	0.0 0.0 —	618 356 262	1.3 1.5 1.1

4-2. Deaths and Death Rates by Cause (ICD-9 "A") (5)

			2:	23	22	25	221, 22 229, 23	2, 224, 3, 24	25-	-30	2	50
	Year	Sex	Multiple	Sclerosis	Epile		Nervous S Sense	iseases of ystem and Organs	Diseases Circulator	y System	Fever	Rheumatic
			N	R	N	R	N	R	N	R	N	R
INDONESIA	1980	T M F										
JAPAN	1980	T M F	77 33 44	0.1 0.1 0.1	567 326 241	0.5 0.6 0.4	4,654 2,557 2,097	4.0 4.4 3.5	310,333 156,824 153,509	265.4 272.8 258.3	155 58 97	0.1 0.1 0.2
MALAYSIA		T M F										
PHILIPPINES		T M F										
SINGAPORE	1981	T M F	1 1 —	0.0 0.1	7 5 2	0.3 0.4 0.2	79 41 38	3.2 3.3 3.2	4,413 2,420 1,993	180.6 194.2 166.5	1 1 —	0.0 0.1
THAILAND	1982	T M F		<u>-</u> -	153 93 60	0.3 0.4 0.2	4,811 2,062 1,849	9.9 12.2 7.7	24,846 15,096 9,750	51.2 61.9 40.4	8 4 4	0.0 0.0 0.0

(Rate: Per 100,000 Population)

25	51	20	6	27	0	2	79	2	28		29	3	00	301	, 302
Heart	Rheumatic Disease	Hypert Dise	ase	Acute My Infaro	tion	Other Iso Heart D	iseases	Pulmonar	ases of Y Circulat- ther Forms rt Disease	Cerebro Disease	ovascular	Athero	sclerosis	Embe Thrombe Other Dis. Arterioles	of Arteries
N	R	N	R	N	R	N	R	N	R	N	R	N	R	ies N	R
													4.14		
1,716 582 1,134	1.5 1.0 1.9	15,911 6,654 9,257	13.6 11.6 15.6	29,393 17,511 11,882	25.1 30.5 20.0	18,954 9,376 9,578	16.2 16.3 16.1	73,442 36,634 36,808	62.8 63.7 61.9	162,317 81,650 80,667	138.8 142.0 135.7	5,161 2,258 2,903	4.4 3.9 4.9	2,427 1,580 847	2.1 2.7 1.4
			-												
					a tree						÷.,,				
79 34 45	3.2 2.7 3.8	344 143 201	14.1 11.5 16.8	1,687 1,131 556	69.0 90.7 46.4	369 197 172	15.1 15.8 14.4	413 199 214	16.9 16.0 17.9	1,438 661 777	58.9 53.0 64.9	15 9 6	0.6 0.7 0.5	52 34 18	2.1 2.7 1.5
241 136 105	0.5 0.6 0.4	1,798 1,054 744	3.7 4.3 3.1	506 301 205	1.0 1.2 0.9	216 140 76	0.4 0.6 0.3	15,592 9,369 6,223	32.2 38.4 25.8	5,578 3,535 2,043	11.5 14.5 8.5	1 - 1	0.0 - 0.0	44 31 13	0.1 0.1 0.1

4-2. Deaths and Death Rates by Cause (ICD-9 "A") (6)

			3	03	304, 30	5, 309·	310-	-312		320	3	21
	Year	Sex	Phle Thrombo Venous E and Thr	bitis, phiebitis, mbolism ombosis R	Other Disea Circulatory N		Acute Respir Infec	atory		onchitis and chiolitis R	Pneun N	nonia R
INDONESIA	1980	T M F										2.34
JAPAN	1980	T M F	113 58 55	0.1 0.1 0.1	744 463 281	0.6 0.8 0.5	1,757 704 1,053	1.5 1.2 1.8	2,133 1,032 1,101	1.8 1.8 1.9	33,051 18,633 14,418	28.3 32.4 24.3
MALAYSIA		T M F										
PHILIPPINES		T M F										
SINGAPORE	1981	T M F	1 1 -	0.0 0.1 	14 10 4	0.6 0.8 0.3	4 1 3	0.2 0.1 0.3	3 3	0.1 0.3	1,283 677 606	52.5 54.3 50.6
THAILAND	1982	T M F	1 1 -	0.0 0.0 —	861 525 336	1.8 2.2 1.4	1,715 932 783	3.5 3.8 3.2	2 2 -	0.0 0.0 	4,638 2,770 1,868	9.6 11.4 7.7

(Rate: Per 100,000 Population)

32	22	3	23	313–315, 329	324–327,	34	11	3	142	343	, 344	3	47	33, 340, 3 348, 349	345, 346,
Influ	enza	and Un	is, Chronic specified, ysema sthma		seases of ry System		odenum	1	ndicitis	Obstr	l Intestinal uction	Chronic Li and C	irrhosis	Digestive	System
N	Ŕ	N	R	N	R	N	R	N	R	N	R	N	R	N	R
		1	0.30				0.18		0.07		0.12			-	
718 349 369	0.6 0.6 0.6	12,712 8,022 4,690	10.9 14.0 7.9	6,473 4,249 2,224	5.5 7.4 3.7	5,530 3,349 2,181	4.7 5.8 3.7	220 122 98	0.2 0.2 0.2	2,649 1,278 1,371	2.3 2.2 2.3	16,490 11,941 4,549	14.1 20.8 7.7	14,142 7,180 6,962	12.1 12.5 11.7
,													·		
29 9 20	1.2 0.7 1.7	203 123 80	8.3 9.9 6.7	672 482 190	27.5 38.7 15.9	65 37 28	2.7 3.0 2.3	7 4 3	0.3 0.3 0.3	23 11 12	0.9 0.9 1.0	140 115 25	5.7 9.2 2.1	150 85 65	6.1 6.8 5.4
514 274 240	1.1 1.1 1.0	862 544 318	1.8 2.2 1.3	2,805 1,740 1,065	5.8 7.1 4.4	844 593 251	1.7 2.4 1.0	145 81 64	0.3 0.3 0.3	218 131 87	0.4 0.5 0.4	3,993 2,837 1,156	8.2 11.6 4.8	6,523 4,172 2,351	13.5 17.1 9.7

4-2. Deaths and Death Rates by Cause (ICD-9 "A") (7)

,			350)	35	i1	36	50	37, 352,3 363, 369	53,361_	3	8
	Year	Sex	Nephritis, N Syndron Nephr N	ne and	Infections N	of Kidney R	Hyperp Pros N		of the Ge	Diseases nitourinary tem R	Abor	tion R
INDONESIA	1980	T M F		1.04		-		0.05				 0.11
JAPAN	1980	T M F	10,180 5,066 5,114	8.7 8.8 8.6	1,354 454 900	1.2 0.8 1.5	497	0.9	1,166 507 659	1.0 0.9 1.1	40	0.1
MALAYSIA		Ť M F										
PHILIPPINES		T M F										
SINGAPORE	1981	T M F	288 146 142	11.8 11.7 11.9	13 3 10	0.5 0.2 0.8	. 3	0.2	62 20 42	2.5 1.6 3.5	2	0.2
THAILAND	1982	T M F	2,698 1,561 1,137	5.6 6.4 4.7	10 6 4	0.0 0.0 0.0	3	0.0	498 291 207	1.0 1.2 0.9	• • 56	0.2

(Rate: Per 100,000 Population)

39	90	3	191	39	14	392, 3	93, 399	40	0, 41		42	4	3	4	140
Pregn and Chi	ildbirth	Toxaen Pregnar	ncy	Complica the Puer	perium		c Causes	Obstet	er Indirect ric Causes	Subcutar	of Skin and leous Tissue		skeletal n and ive Tissue	Spina B Hydroc	
N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R
	• •		0.53		• •										
99	0.2	72	0.1	45	0.1	36	0.1	31	0.1	691 291 400	0.6 0.5 0.7	4,094 1,004 3,090	3.5 1.7 5.2	214 116 98	0.2 0.2 0.2
	• •	• •		-	• •			-	-	55 24 31	2.3 1.9 2.6	47 5 42	1.9 0.4 3.5	4 2 2	0.2 0.2 0.2
221	0.9	3	0.0	12	0.0	441	1.8	16	0.1	157 93 64	0.3 0.4 0.3	93 58 35	0.2 0.2 0.1	2 1 1	0.0 0.0 0.0

4-2. Deaths and Death Rates by Cause (ICD-9 "A") (8)

			44	2	441, 443-	-447, 449	4	53	450-45 455,45	52, 454, 9	4	65
1 8	Year	Sex	Congenital A of Hear Circulatory N	t and	Other C	ongenital malies R	Birth 1	Γrauma R	Other Co Origination Perinata N	ng in the	Senility Mention Psych N	on of
INDONESIA	1980	T M F						ş		7		
JAPAN	1980	T M F	3,061 1,649 1,412	2.6 2.9 2.4	1,602 830 772	1.4 1.4 1,3	490 297 193	0.4 0.5 0.3	5,311 3,099 2,212	4.5 5.4 3.7	32,154 11,244 20,910	27.5 19.6 35.2
MALAYSIA		T M F	-									
PHILIPPINES		T M F										
SINGAPORE	1981	T M F	109 63 46	4.5 5.1 3.8	64 29 35	2.6 2.3 2.9	14 7 7	0.6 0.6 0.6	193 113 80	7.9 9.1 6.7	237 95 142	9.7 7.6 11.9
THAILAND	1982	T M F	193 104 89	0.4 0.4 0.4	386 223 163	0.8 0.9 0.7	=	Ξ	2,991 1,715 1,276	6.2 7.0 5.3	55,631 26,581 29,050	114.7 109.1 120.5

(Rate: Per 100,000 Population)

460-464, 469	, 466, 467,	E47-	·E53	E47	1	E470, E47 E479	72—E474,	E	48		: 50	E	51	E	521
Other III Cond	nptoms and I-defined itions	Accider Adverse	Effects	Motor V Traffic A	ccidents	Other To	dents		l Poisoning R	Acciden N	tal Falls R	Accidents		Accidental and Sut N	Drowning omersion R
N	R	N	R	N	R	N	R	N	ĸ	N		N		N	. n
1,373 799 574	1.2 1.4 1.0	29,217 21,153 8,064	25.0 36.8 13.6	11,555 8,694 2,861	9.9 15.1 4.8	1,747 1,417 330	1.5 2.5 0.6	776 499 277	0.7 0.9 0.5	4,420 2,909 1,511	3.8 5.1 2.5	1,464 868 596	1.3 1.5 1.0	3,437 2,454 983	2.9 4.3 1.7
-															
151 102 49	6.2 8.2 4.1	435 343 92	17.8 27.5 7.7	281 222 59	11.5 17.8 4.9	15 14 1	0.6 1.1 0.1	2 1 1	0.1 0.1 0.1	41 25 16	1.7 2.0 1.3	5 3 2	0.2 0.2 0.2	- - -	- - -
66,681 37,600 29,081	137.5 154.3 120.6	16,234 12,036 4,198	33.5 49.4 17.4	6,355 4,840 1,515	13.1 19.9 6.3	250 200 50	0.5 0.8 0.2	348 174 174	0.7 0.7 0.7	372 292 80	0.8 1.2 0.3	296 180 116	0.6 0.7 0.5	2,477 1,650 827	5.1 6.8 3.4

4-2. Deaths and Death Rates by Cause (ICD-9 "A") (9)

				523	1	E524	E49, E5 E529	520, E522,		E53	E	54
	Year	Sex	Machine Cutting a	Caused by ry and by nd Piercing ments R	Accident	s Caused by m Missile R		Accidents, Late Effect R	Causi	Medicaments ng Adverse sects in ceutic Use R		and Self- d Injury R
INDONESIA	1980	T M F										
JAPAN	1980	T M F	901 805 96	0.8 1.4 0.2	14 14 —	0.0 0.0 —	4,877 3,476 1,401	4.2 6.0 2.4	26 17 9	0.0 0.0 0.0	20,542 12,769 7,773	17.6 22.2 13.1
MALAYSIA		T M F										
PHILIPPINES		T M F										
SINGAPORE	1981	T M F	 - -	- -	_ _ _	<u>-</u> -	91 78 13	3.7 6.3 1.1	=	<u>-</u> -	191 107 84	7.8 8.6 7.0
THAILAND	1982	T M F	16 15 1	0.0 0.1 0.0	215 189 26	0.4 0.8 0.1	5,095 4,496 1,409	12.2 18.4 5.8	=		3,237 1,710 1,527	6.7 7.0 6.3

(Rate: Per 100,000 Population)

E59	5	E5(6	
Homicide a Purposely by Other N	Inflicted	Other V	iolence R	
1,113 656 457	1.0 1.1 0.8	1,955 1,355 600	1.7 2.4 1.0	
			W	
44 34 10	1.8 2.7 0.8	265 190 75	10.8 15.2 6.3	
10,661 9,505 1,156	22.0 39.0 4.8	15 13 2	0.0 0.0 0.0	

5-1. Number of Cases of Infections

	Year	Sex	Cholera	Typhoid Fever and Paratyphoid Fever	Typhoid Fever	Paratyphoid Fever	Other Salmonella Infection	Amoebiasis and Bacillary Dysentery
INDONESIA (1)	1980	т	29,288			-		
JAPAN ⁽²⁾	1981	T M F	19 13 6	477 249 228	292 149 143	185 100 85	3,781	1,021 577 444
MALAYSIA Peninsular Malaysia ⁽³⁾	1978	Ţ	1,536	1,512	1,474	38		
Sabah ⁽⁴⁾	1977	T M F	204 111 93	64	62	2	24	242
Sarawak ⁽³⁾	1978	т .	1	396	368	28		123
PHILIPPINES ⁽⁵⁾	1978	T M F	1,385 717 668	3,542 2,044 1,498				27,653 15,347 12,306
SINGAPORE (6)	1982	Т	31	174	164	10		
THAILAND ⁽⁷⁾	1979 1980 1981 1982	T T T	1,498 4,288 39 645	3,111 3,809 4,419 5,186	3,060 3,748 4,351 5,125	51 61 68 61		8,821 7,973 11,923 14,748

Source: (1) Directorate General of CDC, MOH
(2) Statistics of Communicable Disease and Food Poisoning, Japan, 1981

(3) World Health Statistics Annual, 1980—1981, WHO
(4) World Health Statistics Annual, 1979, WHO
(5) Philippine Health Statistics, Ministry of Health, MLA, 1978

(6) Ministry of Environment

(7) Weekly of Epidemiological Surveillance Record, Thailand

Note: (a) The increase of malarial cases is subjected to the increasing number of epidemiological surveillance workers in the field since 1980, which resulted in effective case finding

Amoebiasis	Bacillary Dysentery	Food Poisoning (Bacterial)	Tuber- culosis of All Forms	Leprosy Incidence	Diphtheria	Chickenpox	Infectious Hepatitis	Rabies	Malaria: Incidence	Influenza (Grippe)
				7,583				. 60		
52 37 15	969 540 429	24,466	68,318	44	47 30 17				41	19,910
		598	4,298	205	71	1,634	1,578	2	6,194	
105	137	99	2,233	10	8	705	207	_	45,313	32,265
		and a second of Views		8	6		442		219	12
		321 158 163	118,587 60,005 58,582	489 270 219	1,389 771 618	1,261 672 589	7,172 4,160 3,012	275 171 104	35,353 19,586 15,767	222,064 109,700 112,364
		936	2,179	61	6	1,283	426	·	282	
2,028 1,740 2,315 2,729	6,793 6,233 9,608 12,019	12,741 18,942 21,729 27,580	13,279 14,980 14,420 14,974	340 447 591 515	2,009 1,918 794 1,125	1,379 3,583 3,307 4,247	12,621 12,704 9,485 9,103	232 248 212 204	75,618 123,495 ^{-(a)} 163,428 156,623	32,239 50,149 55,128 63,800

5-2. Number of Cases of Venereal Diseases

	Year	Sex	Syphilis & Sequelae: Incidence	Congenita Syphilis	Early Syphilis, Sympoto- matic	Early Syphilis, Latent	Cardio- vacular Syphilis	Syphilis of Central Nervous System	Late Syphilis, Latent	Other Forms Late Syphilis, with Sympt.	Other Syphilis & Not Specified	Gono- coccal Infections: Incidence	
INDONESIA (1)	1980	Т	505									21,891	
JAPAN	1981	T M F	1,627 954 673	153 62 91	141 117 24	163 110 53			611 370 241	199 114 85	208 91 117	8,777 7,685 1,092	86 76 10
MALAYSIA Peninsular ⁽³⁾ Malaysia Sabah ⁽⁴⁾ Sarawak ⁽³⁾	1978	T T	461	5	2						15	780 609 51	13
PHILIPPINES ⁽⁵⁾	1978	T M F	60 36 24									8,423 3,117 5,306	
SINGAPORE (6)	1982	Т	987	5	285	150	9	8	530			7,051	1,967
THAILAND (4)	1977	т	11,345									133,972	136,342

Source: (1) Directorate General of CDC, MOH
(2) Statistics of Communicable Disease, Japan, 1981
(3) World Health Statistics Annual, 1980—1981, WHO
(4) World Health Statistics Annual, 1979, WHO
(5) Philippine Health Statistics, Ministry of Health, MLA, 1978
(6) Ministry of Health

6-1. Seasonal Distribution of Cholera (Cases)

								Мо	nths or I	Four-Wee	k Period	ls				
	Year	Sex	Total	Jan.	Feb. II	Mar.	Apr. IV	May V	Jun. VI	VII	Jul. VIII	Aug. IX	Sept.	Oct. XI	Nov. XII	Dec. XIII
INDONESIA	1979	т	28,738	1,628	2,401	2,273	3,937	4,223	3,166	2,688	2,122	2,398	1,206	754	1,256	676
JAPAN ⁽¹⁾	1981	т	19	1	1	3	. –	3	1		-	3	6	1	_	_
MALAYSIA Peninsular Malaysia	1978	Т	1,536		1	144	277	372	187		146	171	173	49	8	8
Sabah ⁽²⁾ Sarawak	1977 1978	Т	204	27	31	84 -	21	16	- . , ,=	••	- · ·	-	9	5	6	5 _
PHILIPPINES ⁽³⁾	1978	т	1,385	72	77	96	85	100	93	131	134	130	143	125	119	89
SINGAPORE ⁽⁴⁾	1982	т	31	_	-	_	1	-	_		-	1	1	2	23	3
THAILAND ⁽⁵⁾	1981 1982	T T	39 645	-	_ 8	_ 54	1 56	2 89	23 72	::	5 65	3 95	_ 70	_ 30	2 60	3 46

- Source: World Health Statistics Annual, 1980—1981, WHO
 (1) Statistics of Communicable Disease, Japan, 1981
 (2) World Health Statistics Annual, 1979, WHO
 (3) Philippine Health Statistics, Ministry of Health, MLA, 1978
 (4) Ministry of Environment
 (5) Weekly Epidemiological Surveillance Record, Thailand

6-2. Seasonal Distribution of Typhoid Fever (Cases)

		-					Mont	hs or Fo	our-Weel	c Periods						
	Year	Sex	Total	Jan. I	Feb.	Mar. III	Apr.	May V	Jun. VI	VII	Jul. VIII	Aug. IX	Sept. X	Oct. XI	XI	Dec. XIII
INDONESIA	1979	т	22,953	1,695	1,773	1,871	1,655	2,068	1,872	••	2,115	1,997	2,077	2,278	1,923	1,551
JAPAN (1)	1981	Т	. 292	18	24	30	33	45	26		28	28	14	17	- 17	12
MALAYSIA Peninsular Malaysia	1978	Т	1,474	118	105	154	119	160	165		114	136	125	113	84	84
Sabah ⁽²⁾	1977	т	62	3	10	. 11	7	2	4	••	7	3	_	6	7	2
Sarawak	1978	т	368	38	34	22	21	29	28	•••	46	38	23	33	31	25
PHILIPPINES ^{(3)(a)}	1978	т	3,542	248	262	246	228	224	340	271	310	292	264	276	288	293
SINGAPORE (4)	1982	Т	164	13	21	21	11	17	16	••	27	8	7	7	9	7
THAILAND (5)	1981 1982	T T	4,351 5,125	258 326	275 332	395 441	219 308	306 405	487 489	::	414 499	460 518	472 509	412 563	393 474	260 261

Note: (a) Number of Cases by Typhoid Fever and Paratyphoid Fever

- Source: World Health Statistics Annual, 1980—1981, WHO
 (1) Statistics of Communicable Disease, Japan, 1981
 (2) World Health Statistics Annual, 1979, WHO
 (3) Philippine Health Statistics, Ministry of Health, MLA, 1978
 (4) Ministry of Environment
 (5) Weekly Epidemiological Surveillance Record, Thailand

6-3. Seasonal Distribution of Paratyphoid Fever (Cases)

							ľ	Months o	r Four-W	leek Peri	ods					
	Year	Sex	Total	Jan. I	Feb.	Mar.	Apr. IV	May V	Jun. VI	VII	Jul. VIII	Aug. IX	Sept.	Oct. XI	Nov. XII	Dec. XIII
INDONESIA																
JAPAN ⁽¹⁾	1981	Т	185	6	2	3	8	18	16	••	44	47	18	11	6	6
MALAYSIA Peninsular	4070					. 5	•				_		-	_	2	2
Malaysia Sabah ⁽²⁾	1978	T	38	3	2	-	3	2	6		5	2	5			2
Sarawak	1978	т	28	1	2	2	_ 	1	-		-	2	4	4	5	7
PHILIPPINES (3)(a)	1978	т	3,542	248	262	246	228	224	340	271	310	292	264	276	288	293
SINGAPORE (4)	1982	Т	10	_	1	2	_	-	2	••	1	1 .	<u>-</u>	1	-	2
THAILAND ⁽⁵⁾	1981 1982	T T	68 61	7 8	4 5	2 11	2 8	5 3	6 3	::	11 6	8 8	10 2	10 3	1 4	2 -

Source: World Health Statistics Annual, 1980—1981, WHO
(1) Statistics of Communicable Disease, Japan, 1981
(2) World Health Statistics Annual, 1979, WHO
(3) Philippine Health Statistics, Ministry of Health, MLA, 1978
(4) Ministry of Environment
(5) Weekly Epidemiological Surveillance Record, Thailand

Note: (a) Number of Cases by Typhoid Fever and Paratyphoid Fever

6-4. Seasonal Distribution of Bacillary Dysentery (Cases)

		_						Mon	ths or Fo	ur-Week	Periods					
	Year	Sex	Total	Jan.	Feb. II	Mar. III	Apr. IV	May V	Jun. VI	VII	Jul. VIII	Aug. IX	Sept. X	Oct. XI	Nov. XII	Dec. XIII
INDONESIA																
JAPAN ⁽¹⁾	1981	т	969	120	130	85	79	56	51	••	43	93	52	30	125	105
MALAYSIA Peninsular Malaysia ⁽²⁾	1976	Т_	111	6	11	11	11	12	21	••	12	3	6	8	6	4
Sabah ⁽³⁾	1977	Т	137	5	9	30	4	16	8	• •	15	9	14	6	8	13
Sarawak (a)	1978	Т	123	9	9	9	6	8	7	••	13	14	13	13	11	11
PHILIPPINES (4)(a)	1978	Т	27,653	1,658	1,761	1,653	1,679	1,761	2,223	2,706	2,932	2,407	2,175	2,386	2,414	1,958
SINGAPORE											,					
THAILAND (5)	1981 1982	T T	9,608 12,019	473 870	526 908	893 1,372	1,038 1,190	943 1,161	1,243 1,501	••	919 1,045	604 813	595 699	725 879	886 890	763 691

Note: (a) Number of Cases by Bacillary Dysentry and Amoebiasis

Source: World Health Statistics Annual, 1980—1981, WHO
(1) Statistics of Communicable Disease, Japan, 1981
(2) World Health Statistics Annual, 1978, WHO
(3) World Health Statistics Annual, 1979, WHO
(4) Philippine Health Statistics, Ministry of Health, MLA, 1978
(5) Weekly Epidemiological Surveillance Report, Thailand

6-5. Seasonal Destribution of Food Poisoning (Cases)

								Mont	ths or Fo	ur-Week	Periods			,		
	Year	Sex	Total	Jan.	Feb.	Mar. III	Apr. IV	May V	Jun. VI	VII	Jul. VIII	Aug. IX	Sept.	Oct. XI	Nov. XII	Dec. XIII
INDONESIA																
JAPAN ⁽¹⁾	1981	т	24,466	190	662	464	715	1,637	2,755		5,802	5,009	3,842	1,553	890	947
MALAYSIA Peninsular Malaysia	1978	т	598	53	91	40	76	38	20	••	20	23	115	56	33	33
Sabah ⁽²⁾	1977	т	99	10	20	14	7	-	7	••	6	9	3	2	18	3
Sarawak ⁽²⁾	1977	т	37	2	1	1	1	8	_	••	1	5	8	9	1	_
PHILIPPINES ⁽³⁾	1978	т	321	26	29	26	27	17	39	28	32	25	24	14	19	15
SINGAPORE (4)	1982	т	932	97	244	207	24	36	25	••	8	37	19	45	144	50
THAILAND ⁽⁵⁾	1981 1982	T T	21,729 27,580	1,585 2,653	1,686 1,947	2,051 2,553	2,249 2,582		2,324 2,653		1,833 2,496	1,623 2,192	1,599 2,178	1,593 2,136	1,452 1,939	1,347 1,543

Source: World Health Statistics Annual, 1980-1981, WHO (1) Statistics of Food Poisoning, Japan 1981-

(2) World Health Statistics Annual, 1979, WHO
(3) Philippine Health Statistics, Ministry of Health, MLA, 1978
(4) Ministry of Environment
(5) Weekly of Epidemiological Surveillance Record, Thailand

7-1. Notifiable Infectious Diseases

ICD Number		Indonesia	Japan	Malaysia	Singapore	Thailand
001	Cholera	v	Ý	v	v	ν .
002	Typhoid and Paratyphoid Fevers	V	V	v	v	V
003	Other Salmonella Infections	,	٧	_V (a)		
004	Shigellosis		v	v		v
008	Intestinal Infections due to Other Organisms		v	_V (a)	-	
010~018	Tuberculosis		v		v	٧
020	Plague	v	v	v	v	٧
022	Anthrax		v .	٧		V
030	Leprosy		v	٧	v	V
032	Diphtheria	v	. v	v	v	v
033	Whooping Cough		٧	· v		v
034	Streptococcal Sore Throat and Scarlet Fever		v			
036	Meningococcal Infection	v	٧	v		v
037	Tetanus	v	· v	V (p)		٧
045	Acute Poliomyelitis	v	v	v	٧	Ý
052	Chickenpox			٧	٧	v
055	Measles		v	v		v
060	Yellow Fever	v	v	v	v	v
061	Dengue :	V(c)		٧ /	٧ .	V
062	Mosquito-borne Viral Encephalitis		٧	٧	v	٧
070	Viral Hepatitis			v	v	٧
071	Rabies	v	v	٧		v
072	Mumps	'		v		٧
076	Trachoma		ν	v		(0 t T t)
081	Other Typhus		v	v		(Serub Typhus) v
084	Malaria		V	v	v	V
087	Relapsing Fever	v	V	v		

ICD Number		Indonesia	Japan	Malaysia	Singapore	Thailand
090	Congenital Syphilis		v	۷(d)	v	V
098	Gonococcal Infections		v	٧	٧	V
099	Other Venereal Diseases		V	v	v	٧
100	Leptospirosis		v	٧		٧
102	Yaws			v		v.
120	Schistosomiasis [Bilharziasis]		v			
125	Filarial Infection and Dracontiasis		٧	٧		
487	Influenza		v			V

Note:

- (a) Only Food Poisoning
- (b) Only Tetanus Neonatorum
 (c) Only Hemolytic Fever
- (d) Syphilis and Its Sequelae

8-1. Infectious Diseases Specified by Immunization Program

	Indonesia	Japan	Malaysia	Singapore	Thailand
Cholera					v
Diphtheria	v	V	,	٧	v
Epidemic Typhus	(a)				
Measles	(ь)	٧			v
Mosquito-borne Viral Encephalitis					
Plague					
Poliomyelitis	v	V			v
Rubella		v			
Tetanus	v	V.			v
Tuberculosis (BCG)	v	V			v
Typhoid and Paratyphoid Fever					v
Whooping Cough	v	v			v
Yellow Fever	(a)		(c)		

Note: (a) Only on the occasion of outbreaks.

(b) Started from 1982 in the restricted area.

(c) Immunization Required under I.M.R.

9-1. Crude Live-birth Rates

(Per 1,000 Population)

Year	1970	1975	1976	1977	1978	1979	1980	1981	1982
INDONESIA	43.8	40.2 ^(a)					36.2		33.7
JAPAN	18.8	17.1	16.3	15.5	15.0	14.3(1)	13.7 ⁽¹⁾	13.1 ⁽¹⁾	12.8 ⁽⁵⁾
MALAYSIA Peninsular Malaysia	33.9	31.3	31.7	30,7	30.1(2)	30.5(2)	31.7 ⁽²⁾		
Sabah	37.9	35.4	36.6	37.2	34.9	-	-		
Sarawak	30.4	29.7	29.1	29.1	28.3	29.4	29.4		
PHILIPPINES	26.2	28.3	30.1 ⁽³⁾	30.3 ⁽³⁾	30.5 ⁽³⁾	30.8 ⁽³⁾		1.5	
SINGAPORE	22.1	17.8	18.8	16.6	16.9	17.3 ⁽¹⁾	17.3 ⁽¹⁾	17.0 ⁽¹⁾	17.3 ⁽⁴⁾
THAILAND	32.0	27.1	27.1	26.3	24.4 ⁽³⁾	23.3 ⁽³⁾	22.8(3)	22.4(3)	22.2

Source: Demographic Yearbook 1981, UN

(1) Monthly Bulletin of Statistics, Sept. 1983, Vol. XXXVII No. 9, UN
(2) Monthly Statistical Bulletin, Peninsular Malaysia, Aug. 1983, Dept. of Statistics
(3) Population and Vital Statistics Report, Series A 1980, 1981, 1982, 1983, UN
(4) Yearbook of Statistics, Singapore, 1982/83
(5) 1982 Vital Statistics Preliminary Figures, Min: of Health & Welfare, Sept. 1983
Note: (a) Estimates for 1970—75 Prepared by the Population Division, UN

9-2. Crude Death Rates

(Per 1,000 Population)

									(1 01 1,000	ropulation
	Year	1970	1975	1976	1977	1978	1979	1980	1981	1982
INDONESIA		18.7 ⁽⁴⁾	16.7*	14.3 ⁽⁴⁾	13.9 ⁽⁴⁾	13.5 ⁽⁴⁾	13.1 ⁽⁴⁾	12.5 ⁽⁴⁾	12.3 ⁽⁴⁾	12.3 ⁽⁴⁾
JAPAN		6.9	6.3	6.3	6.1	6.1	6.0 ⁽¹⁾	6.2 ⁽¹⁾	6.2 ⁽¹⁾	6.0 ⁽⁶⁾
MALAYSIA Peninsular Malaysia		7.3	6.4	6.1	6.3	5.9(2)	5,8(2)	5.9 ⁽²⁾		
Sabah		5.9	4.3	4.7	4.3					
Sarawak		5.2	5.0	4.4	4.7					
PHILIPPINES		6.7	6.4	6.9	6.9 ⁽³⁾	7.0 ⁽³⁾	6.5 ⁽³⁾		4	
SINGAPORE		5.2	5.1	5.1	5.2	5.2	5.3 ⁽¹⁾	5.2 ⁽¹⁾	5.3 ⁽¹⁾	5.2 ⁽⁵⁾
THAILAND		6.3	5.7	5.5	5.4	5.2	5.2	5.3 ⁽³⁾	5.0 ⁽³⁾	5.1

Source: Demographic Yearbook 1975, 1979, 1981, UN
(1) Monthly Bulletin of Statistics, Aug. 1983, Vol. XXXVII No. 8, UN
(2) Monthly Statistical Bulletin, Peninsular Malaysia, Aug. 1983, Dept. of Statistics
(3) Population and Vital Statistics Report, 1980, 1981, 1982, 1983, UN
(4) Calculated by Health Planing Burean, MOH
(5) Yearbook of Statistics, Singapore, 1982/83
(6) 1982 Vital Statistics Preliminary Figures, Min. of Health & Wefare, Sept. 1983

9-3. Vital Statistics Rates

(Per 1,000 Population)

		-			Birth	De	ath
	Year	Crude Marriage Rates	Crude Divorce Rates	Crude	General Fertility Rates	Crude	Infant
INDONESIA ⁽¹⁾	1980	10.6 ^(a)			138.6 ^{(1)(b)}	12.5	98
JAPAN(1),(2)	1982	6.6	1.39	12.8	53.8 ^{(1)(e)}	6.0	6.6
MALAYSIA Peninsular Malaysia ⁽³⁾	1980	1.7 ^(c)	0.02 ^(g)	31.7	139.6 ^{(1)(b)} 122.1 ^{(1)(c)}	5.9	24.5
Sabah ⁽¹⁾	1977			35.6	176.4 ^{(1)(d)}	4.3	28.
Sarawak ⁽¹⁾	1977	3.5 ^(f)	0.1 ^(f)	29.0	150.3 ^{(1)(d)}	4.7	25.4
PHILIPPINES(1),(4)	1978	7.1 ^(h)	0.14 ^(h)	30.5	142.3	6.5	53.
SINGAPORE (5)	1982	9.4		17.3	63.8	5.2	10.
THAILAND (1),(6)	1980 1981 1982	6.5	0.49 ^(c)	23.2 22.4 22.2	103.0 97.9 95.7	5.3 5.0 5.1	13. 12. 12.

Source: (1) Demographic Yearbook 1981
(2) Monthly Statistics of Japan, Sept. 1983, No. 267, Statistics Bureau
(3) Monthly Statistical Bulletin Aug. 1983, Peninsular Malaysia, Dept. of Statistics
(4) D.I.C. Ministry of Health, Philippine Health Statistics, 1978
(5) Yearbook of Singapore, 1982/83 Department of Statistics, Singapore
(6) Statistical Yearbook Thailand, 1976-80, No. 32, National Statistical Office

(a) For 1962 estimated by UN

(b) For 1978

(c) For 1979

(d) For 1970

(e) For 1981

(f) For 1972

(g) For 1976

(h) For 1975

9-4. Natality, General Mortality and Natural Increase

			Natalit	y (live-born)			General	Mortality		
	Year		(Number)		(0/00)		(Number)		(0/00)	Natural Increase
		Total	Male	Female	Total	Total	Male	Female	Total	(0/00)
INDONESIA										
JAPAN ⁽¹⁾	1982	1,515,398	777,855	737,537	12.8	711,883	385,494	326,389	6.0	6.8
MALAYSIA	1977	388,177			30.9	74,049			5.9	25.0
Peninsular Malaysia	1978 1979 1980 ⁽⁴⁾	323,054 336,324 347,015	165,833 173,211 —	157,221 163,113 —	30.0 30.4 31.7	61,707 63,566 64,212	35,526 36,407 —	26,181 27,159 —	5.7 5.8 5.9	24.3 24.6 25.8
Sabah	1977	32,190	16,604	15,586	35.6	3,921	2,358	1,563	4.3	31.3
Sarawak	1978	33,580	17,317	16,263	28.2	5,012	3,002	2,010	4.2	24.0
PHILIPPINES	1977 1978 ⁽²⁾	1,344,836 1,387,588	696,797 717,805	648,039 669,783	30.3 30.5	308,904 297,034	171,917 169,332	136,987 127,702	7.0 6.5	23.3 24.0
SINGAPORE (3)	1982	42,654	22,285	20,367	17.3	12,896	7,493	5,402	5.2	12.0
THAILAND	1980 1982	1,077,300 1,075,632	554,499 548,643	522,801 526,989	23.2 22.2	247,970 247,402	143,840 144,066	104,130 103,336	5.3 5.1	17.9 1.7

Source: World Health Statistics, 1982, WHO

Monthly Statistics of Japan, Sept. 1983, Statistics Bureau
 1978 Philippine Health Statistics Ministry of Health, MLA.
 Monthly Digest of Statistics, August 1983, Department of Statistics, Singapore

(4) Monthly Statistical Bulletin, Aug. 1983, Dept. of Statistics, Peninsular Malaysia

Note: Figures for males and females may not add up to the total on account of unknown sex

10-1. Late Fetal, Infant, Neonatal, Post-neonatal and Perinatal Mortality

		Late Fetal	Mortality	Infant M	ortality	Neonatal N	Nortality	Post-nee Morta	onatal ality	Perinatal	Mortality
	Year	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
INDONESIA (1)	1980		ď		10.4 ⁽¹⁾		4.8 (2)			Ġ.	4.45 ⁽²
JAPAN(1)	1982	10,236	6.8	9,969	6.6	6,425	4.2	3,544	2.4	15,303	10.1
MALAYSIA											
Peninsular Malaysia	1978	5,224	16.2	8,631	26.7	5,647	17.5	2,984	9.2	9,492	29.4
Sabah	1977	150	4.7	909	28.2	505	15.7	404	12.6	519	16.1
Sarawak	1978 1979	128 145	3.9 4.1	669 696	19.9 19.5	315	9.4				. 4
PHILIPPINES (3)	1978	14,365	10.4	73,640	53.1	30,984	22.3	42,656	30.7	13,617	9.8
SINGAPORE (4)	1981	282	6.6	451	10.7	320	7.6	131	3.1	537	12.6
THAILAND	1980 1981 1982	1,193 1,150 1,269	1.1 1.1 1.2	14,286 13,305 13,286	13.3 12.5 12.4	5,723 5,369 5,238	5.3 5.1 4.9	8,563 7,936 8,948	7.9 7.5 7.5	4,652 4,428 4,647	4.3 4.2 4.3

Source: World Health Statistics, 1982, WHO

(1) Survey in Berung, West Java, 1980

(2) 1982 Vital Statistics, Preliminary Figures, Min. of Health Welfare, Sept. 1983
 (3) 1978 Philippine Health Statistics Ministry of Health, MLA

(4) Report on Registration of Births & Deaths, 1981

Note:

(a) For 1979

Absolute numbers and crude rates per 1,000 live-born.

Late fetal deaths:

Fetal deaths after at least 28 weeks' gestation. Fetal deaths of unknown gestational age are included.

Infant deaths: Deaths under one year.

Deaths under four weeks. Neonatal deaths:

Post-neonatal deaths: Deaths from four weeks to under one year.

Perinatal deaths:

Late fetal deaths and deaths under one week.

10-2. Infant Deaths and Infant Mortality Rates by Age and Sex

					Nur	nber	F		1	Rates (per	1,000 liv	e births)		
	Year	Sex	. Total	1 day	2-6	7-27	28-365	Unknown	Total	1 day	26	7-27	28-365	Unknow
INDONESIA		T M F												
JAPAN ⁽¹⁾	1981	T M F	10,891 6,148 4,743	2,726 1,517 1,209	2,876 1,707 1,169	1,586 887 699	3,703 2,037 1,666		7.1 _ _	3	.7	4.8	2.4	
MALAYSIA Peninsular Malaysia	1978	T M F	9,080 5,220 3,860	4,2 2,5 1,7		1,379 780 599	3,433 1,912 1,521		28.1 31.5 24.6	13 15 11	.2	4.3 4.7 3.8		
Sabah	1977	T M F	909 530 379	2:	69 25 44	136 74 62	404 231 173							
Sarawak	1978	T M F	575 318 257		426 235 191		149 83 66							
PHILIPPINES (2)	1978	T M F	73,640 41,837 31,803	8,6 98	12,548	9,738	42,656		53.1 58.3 47.5	6.3	9.0	7.0	30.7	
SINGAPORE(3)	1981	T M F	451 ^(a) 252 195	139 84 52	116 65 51	65 38 26	131 65 66					(0)		
THAILAND	1982	T M F	13,286 7,792 5,494	546 316 230	2,832 1,671 1,161	1,860 1,082 778	7,580 4,442 3,138	468 281 187	12.4 14.2 10.4	0.5 0.6 0.4	2.6 3.0 2.2	1.7 2.0 1.5	7.0 8.1 5.9	0.4 0.5 0.4

Source: Demographic Yearbook 1980, UN
(1) Vital Statistics Japan 1980, Min. of Health and Welfare, Japan
(2) 1978 Philippine Health Statistics, Ministry of Health, MLA
(3) Report on Registration of Births and Deaths, Singapore, 1981
Note: (a) Including infant deaths of unknown age

10-3. Maternal Deaths

	1970	1975	1976	1977	1978	1979	1980	1981	1982
INDONESIA						·			
JAPAN ^{(a)(b)}	967	-525	458	395	367	323			
MALAYSIA ^(c) Peninsular Malaysia ⁽¹⁾	441	261	252	254	272	231			
Sabah	22		·	5					
Sarawak ^(a)			-		9				
PHILIPPINES ⁽²⁾	1,950	1,753	1,862 ⁽³⁾	1,909	1,734 ⁽³⁾				
SINGAPORE ^{(4)(d)}	15	12	6	6	8	3	2	2	
THAILAND ⁽⁵⁾	2,589	1,944	1,738	1,394	1,355	1,105	1,061	863	749

Source: Demographic Yearbook 1981, UN

(1) Monthly Statistical Bulletin Peninsular Malaysia, Feb. 1982, Dept. of Statistics

- (2) 1979 Philippine Statistical Yearbook, National Economic and Development Authority
- (3) Philippine Health Statistics, Ministry of Health, MLA, 1978
- (4) Report on the Registration of Births and Deaths, Singapore
 (5) Statistical Yearbook, Thailand 1976—80, National Statistical Office

Note: (a) All data classified by 1965 Revision

- (b) Prior to 1973, excluding Okinawa. For Japanese nationals in Japan only
- (c) Medically certified or inspected deaths only
- (d) Data based on ICO9, 1975 Revision

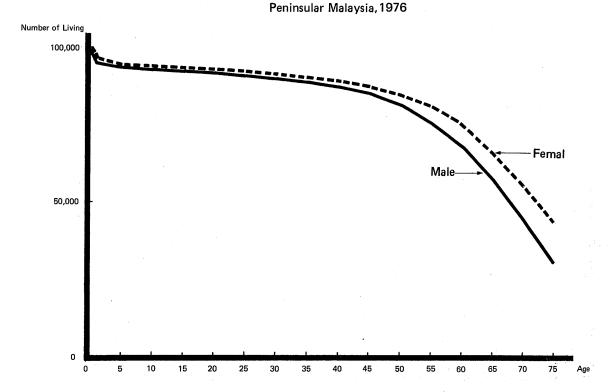
10-4. Maternal Mortality Rates

(per 100,000 live births)

								(por 100,000	
	1970	1975	1976	1977	1978	1979	1980	1981	1982
INDONESIA ⁽⁷⁾		1,540	1,390	1,220	920	1,480			
JAPAN ^{(a)(b)}	50.0	27.6	25.0	22.5	21.5	20.5			
MALAYSIA ^(c) Peninsular Malaysia ⁽¹⁾⁽⁵⁾	148	83	78	79	84	69			
Sabah									
Sarawak ^(a)									
PHILIPPINES(2)(5)	. 200	140	140	140	120				
SINGAPORE (d) (6)	32.7	30.0	14.0	15.6	20.3	7.4	4.9	4.7	
THAILAND ⁽⁵⁾	226.1	171.7	149.0	129.2	130.3	102.8	98.5	81.2	69.6

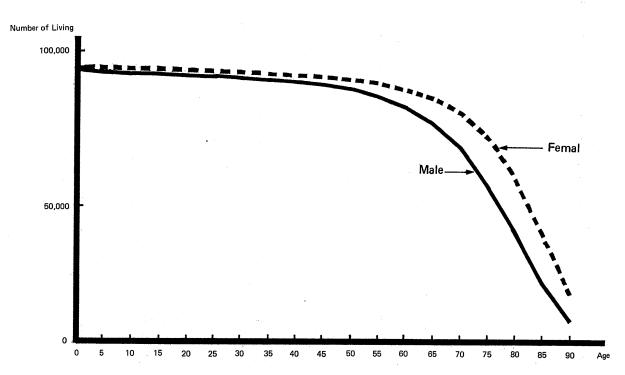
Source: Same as previous page
(5) Rates are multiplied by 100, because original data are shown in the rate per 1,000 live births
(6) Rates based on 30 or fewer maternal deaths
(7) Survey in Hasan Srdilin Hospital, West Java, 1975-1979

Fig. 4. Number of Surviving out of 100,000 Born Alive at Selected Ages by Sex (1)



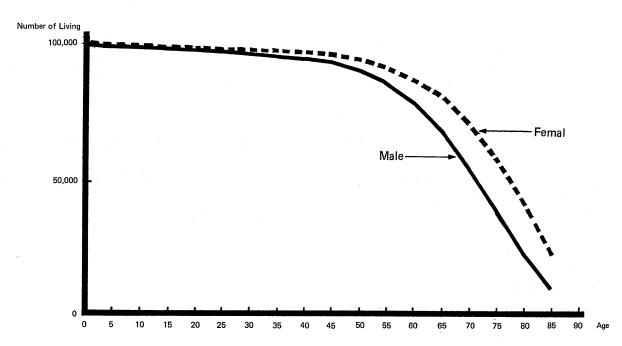
Source: World Population Trends and Prospects by Country, 1950-2000: Summary report of the 1978 assessment, UN, 1979

Fig. 4. Number of Surviving out of 100,000 Born Alive at Selected Ages by Sex (2)
Singapore, 1980



Source: Population Projections for Singapore, 1980–2030, Singapore Family Planning & Population Board

Fig. 4. Number of Surviving out of 100,000 Born Alive at Selected Ages by Sex (3) Japan, 1982



Source: Abridged Life Table 1982, Min. of Health & Welfare, Japan

11-1. Expectation of Life at Specified Ages for Each Sex (1)

							Age				
	Year	Sex	0	1	2	3	4	5	10	15	20
INDONESIA	1975— 1980	M F	48.7 51.3			17.					-10-
JAPAN ⁽¹⁾	1982	M F	74.22 79.66	73.76 79.13	72.84 78.20	71.88 77.24	70.92 76.26	69.95 75.28	65.05 70.35	60.12 65.40	55.33 60.48
MALAYSIA ⁽¹⁾ Peninsular Malaysia	1979	M F	67.17 72.49	68.20 73.18				64.86 69.85	60.18 65.12	55.39 60.30	50.69 55.52
Sabah	1970	M F	48.79 45.43	53.03 49.38				51.39 48.20	47.11 43.97	42.54 39.39	37.86 35.14
Sarawak	1970	M F	51.15 52.69	55.71 56.32				53.98 54.66	49.58 50.29	44.96 45.64	40.31 41.24
PHILIPPINES	1975— 1980	M F	59:10 62.40							5-	
SINGAPORE ⁽²⁾	1980	M F	68.7 74.0			40		64.8 70.1	59.9 65.2	55.0 70.3	50.2 55.4
THAILAND	1975— 1980	M F	57.60 63.00								

Source: Demographic Yearbook 1981
(1) Abridged Life Table 1982, Min. of Health & Welfare, Japan
(2) Yearbook of Statistics, Singapore, 1982/83

						Age						
.25	30	35	40	45	50	55	60	65	70	75	80	85
50.55 55.58	45.75 50.69	40.97 45.84	36.24 41.02	31.64 36.26	27.24 31.60	23.03 27.04	18.99 22.61	15.18 18.35	11.74 14.35	8.79 10.75	6.45 7.73	4.64 5.36
46.06 50.78	41.43 46.04	36.80 41.36	32.27 36.77	27.91 32.30	23.82 27.91	19.99 23.73	16.59 20.00	13.57 16.62	11.37 13.94	9.47 11.80		
33.60 31.14	29.38 27.57	25.05 24.13	20.96 20.72	17.19 17.57	13.95 14.35	11.18 11.65	8.30 8.35	6.81 6.95	4.22 4.27			
35.98 37.00	31.79 33.28	27.49 29.75	23.50 26.34	19.91 22.86	16.85 19.36	13.91 16.01	11.07 12.75	9.05 11.37	6.68 7.82	5.34 5.91		
45.5 50.6	40.7 45.7	36.0 40.9	31.3 36.2	26.8 31.5	22.6 27.0	18.7 22.8	15.2 18.8	12.2 15.1	9.7 11.8			
				,								-

11-2. Number of Surviving out of 100,000 Born Alive by Age and Sex (1)

						А	ge			
	Year	Sex	0	1	5	10	15	20	25	30
INDONESIA									-	
JAPAN ⁽¹⁾	1982	M F	100,000 100,000	99,269 99,419	99,015 99,220	98,865 99,129	98,758 99,059	98,399 98,933	97,989 98,763	97,578 98,550
MALAYSIA ⁽²⁾ Peninsular Malaysia	1970	M F	100,000 100,000	95,361 96,453	93,715 94,769	93,025 94,121	92,560 93,727	91,918 93,204	91,121 92,508	90,239 91,586
Sabah	1970	M F	100,000 100,000	90,259 90,136	86,315 85,119	85,050 83,706	84,245 82,868	83,570 81,196	81,851 78,790	79,860 75,019
Sarawak	1970	M F	100,000 100,000	90,155 91,880	86,537 88,133	85,531 87,070	84,843 86,432	84,163 85,254	82,682 83,601	80,732 80,599
PHILIPPINES										
SINGAPORE (3)	1980	M F	100,000 100,000	98,746 98,897	98,481 98,612	98,353 98,469	98,176 98,307	97,755 98,091	97,180 97,816	96,560 98,489
THAILAND								-		

Source: (1) Abridged Life Table 1982, Min. of Health & Welfare, Japan
(2) Abridged Life Table Malaysia 1970, Dept. of Statistics, Malaysia, March 1974
(3) Population Projections for Singapore, 1980–2030, Singapore Family Planning & Population Board

					Ag	е		• ;			
35	40	45	50	55	60	65	70	75	80	85	
97,089 98,254	96,394 97,840	95,270 97,223	93,334 96,253	90,428 94,799	86,375 92,663	80,478 89,317	71,583 83,988	58,394 74,929	40,925 60,188	22,733 39,855	
89,028 90,497	87,516 89,161	85,253 87,254	81,846 84,619	76,257 80,561	68,775 75,000	57,795 66,316	44,867 55,804	30,803 43,160			
77,899 70,626	74,841 65,771	70,143 59,689	62,559 53,327	52,331 44,674	41,927 37,542	26,161 23,253	16,871 15,365				
78,834 76,920	75,757 72,684	70,944 68,318	63,790 63,617	55,747 57,928	46,819 51,247	34,745 40,738	24,787 31,053	13,253 19,610	-		
95,881 97,081	94,932 96,457	93,411 95,507	90,623 93,855	85,802 91,127	78,538 86,768	67,978 80,194	54,423 70,702	39,325 57,474	24,028 41,447	11,382 23,963	

12-1. Per Capita Food Supplies (1)

		Er	nergy (k cal/da	ıy)		Protein (g/day	r)		Fat (g/day)	
	Year	Grand Total	Vegetable Products	Animal Products	Grand Total	Vegetable Products	Animal Products	Grand Total	Vegetable Products	Animal Products
INDONESIA ⁽¹⁾	1980	2,570		-	48.4			51.9		
JAPAN ⁽²⁾	1978 1979 1980	2,167 2,167 2,084	1,705 1,626	443 436	80.0 78.4 77.9	39.8 38.2	39.8 39.2	54.7 54.8 52.4	27.8 26.0	26.7 26.0
MALAYSIA	1977	2,613	2,319	294	57.6	35.7	21,9	45.5	29.2	16.3
PHILIPPINES ⁽³⁾	1978 1979	2,288 2,342			51.4 52.6					
SINGAPORE	. 1977	3,074	2,446	629	84.2	45.1	39.1	76.8	32.8	43.9
THAILAND	1977	2,098	1,952	146	46.3	32.2	14.1	22.5	13.8	8.7

Source: Food Balance Sheets 1975—77 Average and Per Capita Food Supplies 1961—65 Average 1967 to 1977, FAO. Rome 1980
(1) Central Bureau of Statistics, Welfare Indicators, 1982
(2) Japan Statistical Yearbook, 1983
(3) 1982 Philippine Statistical Yearbook

12-1. Per Capita Food Supplies (2)

							(mg/c
-	Year	Calcium	Iron	Vitamin A	Vitamin B ₁	Vitamin B ₂	Vitamin (
INDONESIA	1977	221	13.6	30	1.06	0.48	56
JAPAN ⁽²⁾	1978 1979 1980	562.2 548.3 535.0	13.9 13.3 13.1	1,852.8 1,628.3 1,575.9	1.2 1.2 1.16	1.1 1.0 1.01	122.7 115.1 107.1
MALAYSIA	1977	330	13.5	135	0.87	0.79	44
PHILIPPINES	1977	269	12.9	80°	0.94	0.72	72
SINGAPORE	1977	656	21.8	269	1.59	1.38	76
THAILAND	1977	243	13.9	73	0.87	0.64	60

13-1. Housing Conditions

			Percentage of households	Percentage un	of household its by type o	ls in occupied f toilet facilit	dwelling ies		Light	ing	
	Year		in occupied dwelling units with piped water	Flush/ Water	Pit or Moulded Bucket	Other	None	Electricity	Pressure/ Gas Lamp	Oil Lamp	Other
		Total	7.3	11.0 ^(a)	25.3 ^(a)	53.1 ^(a)		13.9	_	85.0	0.8
INDONESIA(1)	1980	Urban	24.4	43.0	17.9	25.4		46.7	-	52.6	0.4
		Rural	2.4	5.1	26.6	58.2		5.5		93.3	0.9
		Total	92.7	45.9	53.8			1			
JAPAN ⁽²⁾	1978	Urban	95.0	54.2	45.6			1 1	1	1	
		Rural	84.5	15.7	84.3	1					
MALAYSIA (3)		Total	65.0	56.4	22.7	4.4	16.5	64.4	8.4	26.5	0.7
Peninsular Malaysia	1980	Total	68.0	60.0 32.2	21.7 32.9	3.6	14.7 26.9	68.4 45.0	7.3 15.7	23.6 38.7	0.7
Sabah Sarawak	1	Total Total	50.3 47.8	41.3	24.4	8.0 9.6	24.7	41.6	13.2	44.5	0.6 0.7
		Total	24.0 (5)(b)	22.6	38.8	1.9	36.7	23.2	75.6	0.5	
PHILIPPINES (4)	1970	Urban	[80.0 (Metro Manila)	48.4	31.1	3.4	17.2	60.4	39.0	0.4	
		Rural	138.0 (Other Areas) 10.0	11.2	42.2	1.2	45.3	6.8	91.7	0.5	
SINGAPORE (6)	1982	Total	99.0	83.0	1.6						
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Total	29,5	2,4	45.0	50.8	•	8.9		- 91.1	>
THAILAND (7)	1970	Urban	74.0	5.6	84.0	9.3		86.1	-	_ 13.9 _	;
		Rural	3.4	0.5	22.2	75.0		9.0	-	- 91.0 -	

Source: (1) Results of the Sub-Sample of the 1980 Population Census, Serie S No.1, Biro Pusat Statistic, May 1982
(2) Housing of Japan, Summary of the Results of 1978, Housing Survey of Japan, Statistics Bureau, March 1981, Tokyo
(3) Census of Housing, Malaysia 1980 Summary Report, Dept. of Statistics Malaysia, July 1981
(4) Phillippines 1970 Census of Population and Housing, National Census & Statistics Office, Dec. 1974
(5) Report No. 1, Integrated Water Supply Programme (1980–2000)
(6) Public Utilities Board and Ministry of Environment

(7) 1970 Population & Housing Census, Whole Kingdom, National Statistical Office, 1973

Note: (a) For 1971 (b) For 1980

14-1. Mean Length from Birth to One Year

(cm)

Country	People or Place	Year	Sex	Birth	4 wks	3 mos	6 mos	9 mos	12 mos
Indonesia	Jakarta ^(a)		м	- 10	52	59	64	67	71
Indonesia	Jakarta	1964	F		52	57	63	67	70
855 TAN	22.000.000		м	49.7	56.0	62.7	68.1	72.0	75.5
Japan ⁽¹⁾	National	1980	F	49.3	55.2	61.1	66.8	70.6	74.1
Malaysia									
	Manila ^(a)		м		53	60	66	70	72
Philippines	Manila	1967	F		52.5	59	65	69	73
	Malays	1972	м			60.2	65.3		73.6
Singapore	incluy:	1072	F			59.5	64.0		71.5
	Chinese	1972	м			61.8	66.5	71.0	74.5
		220.5	F			60.0	65.0	69.5	73.0
Thailand'	Bangkok		м		56.1	62.0	67.8	71.9	73.5
i naliano	bangkok		F		55.0	60.3	65.9	69.6	72.

Source: Worldwide variation in human growth, Cambridge University Press, 1976

(1) Ministry of Health & Welfare, Japan

Note: (a) Low income group

14-2. Mean Weight from Birth to One Year

		·							(kgw)
						A	je		
Country	People or Place	Year	Sex	Birth	4 wks	3 mos	6 mos	9 mos	12 mos
Indonesia	Jakarta ^(a)	1964	M F	3.09 3.01	4.16 3.79	5.89 5.43	7.26 6.80	7.74 7.50	8.16 8.01
Japan ⁽¹⁾	National	1980	M F	3.23 3.16	5.08 4.76	6.84 6.24	8.15 7.71	9.04 8.47	9.71 9.09
Malaysia									
Philippines	Manila ^(a)	1967	M F	3.07 2.94	4.04 3.70	5.80 5.20	7.16 6.74	8.25 7.84	9.53 9.28
Singapore	Malays	1972	M F			6.0 5.5	7.2 6.3	8.1 7.4	8.8 8.0
	Chinese	1972	M F			6.5 6.5	8.1 8.0	8.9 8.8	9.2 8.9
Thailand	Bangkok		M F	3.12 3.01	4.65 4.46	6.34 5.61	7.74 7.33	8.62 7.97	9.10 8.50

Source: Worldwide variation in human growth, Cambridge University Press,1976
(1) Ministry of Health & Welfare, Japan
Note: (a) Low income group

14-3. Mean Chest Circumference from Birth to One Year

(cm) Age People or place Year Sex Country 6 mos 9 mos 12 mos Birth 4 wks 3 mos 34.5 38 40.5 42 43.5 M 31.5 Jakarta (a) 1964 Indonesia 32.5 34.5 37 40 41.5 43 42.4 44.6 46.1 47.0 32,5 39,1 M Japan (1) National 1980 41.2 45.7 32,4 43.6 44.9 F 38.2 Malaysia **Philippines** Singapore 43.4 45.8 32.0 37.9 41.0 44.7 M Bangkok Thailand F 31.9 37.5 40.1 42.7 43.5 44.1

Source: Worldwide variation in human growth, Cambridge University Press, 1976

(1) Ministry of Health & Welfare, Japan (a) Low income group

Note:

14-4. Mean Height by Age (1-18 year)

	People	100	_				Age (yr)			
Country ·	or Place	Year	Sex	1	2	3	, 4	5	6	7
Indonesia ⁽¹⁾	National	1977	M .F	-	82.2 80.8	88.5 88.3	97.2 96.2	102.4 100.6	107.1 106.2	112.1 111.5
Japan	National	1980	M F	75.5 ⁽²⁾ 74.1	87.2 ⁽²⁾ 86.3	94.8 ⁽²⁾ 93.9	101.5 ⁽²⁾ 100.9	107.6 ⁽²⁾ 107.1	115.9 ⁽³⁾ 115.1	121.4 ⁽³⁾
Malaysia	Rural	1960	M F						105.4	109.7 109.7
Philippines	Rural		M F	70.8 69.2	78.5 77.4	86.0 86.0	92.7 91.8	99.0 98.5	104.8 104.5	110.6 110.6
	Malays	1972	M F	73.6 71.5	82.5 81.5	89.5 88.7	95.0 94.7	101.2 100.3	107.2 106.7	112.0 111.5
Singapore	Chinese	1972	M F	74.6 73.0	85.9 84.5	92.5 91.5	98.5 97.7	104.5 104.0	111.0 110.2	115.9 114.6
Thailand	National	1980	M F	73.5 ^(a) 72.2	83.8 ^(a) - 84.0	93.5 ^(a) 93.0	100.5 ^(a) 99.0	108.34 ⁽⁴⁾ 106.93	112.82 ⁽⁴⁾ 111.86	116.23 ⁽⁴ 115.63

Source: Worldwide variation in human growth, Cambridge University Press, 1976
(1) Data from Dept. of Growth & Development, Univ. of Tsukuba, Japan
(2) Ministry of Health & Welfare, Japan
(3) Ministry of Education, Japan
(4) Ministry of Education, Thailand
Note: (a) Survey in Bangkok

					Age (yr)					
8	9	10	11	12	13	14	15	16	17	18
118.0 116.1	122.6 121.2	125.2 125.5	129.6 130.8	133.2 136.4	142.7 143.7	147.7 146.1	153.2 149.1	157.8 150.7	159.4 152.4	161.2 151.2
126.8 ⁽³⁾ 126.1	132.1 ⁽³⁾ 131.9	137.2 ⁽³⁾ 138.2	142.8 ⁽³⁾ 145.0	149.8 ⁽³⁾ 150.5	157.3 ⁽³⁾ 154.2	163.2 ⁽³⁾ 156.0	167.3 ⁽³⁾ 156.6	169.0 ⁽³⁾ 156.9	169.7 ⁽³⁾ 157.1	
111.8 112.8	114.3 117.9	121.9 123.4	129.3 131.8	133.4 137.2	138.4	141.4				
116.3 116.5	120.7 120.7	125.0 124.5	129.3 130.5	134.0 137.4	139.3 142.5	147.5 147.0	154.0 150.6	158.8 151.2	151.0	
117.5 116.0	122.5 121.5	126.7 126.2	131.0 133.0	135.2 139.3	140.5 143.2	145.3 149.0				
120.0 119.2	125.0 124.0	129.5 129.5	133.0 135.0	138.2 141.0	144.0 145.0	149.5 149.0				
120.62 ⁽⁴⁾ 120.21	125.67 ⁽⁴⁾ 126.08	130.83 ⁽⁴⁾ 131.80	135.14 ⁽⁴⁾ 136.97	139.04 ⁽⁴⁾ 142.23	146.62 ⁽⁴⁾ 146.86	153.14 ⁽⁴⁾ 150.20	158.98 ⁽⁴⁾ 152.26	161.15 ⁽⁴⁾ 152.64	163.41 ⁽⁴⁾ 153.71	163.57 ⁽⁴ . 155.00

14-5. Mean Weight by Age (1-18 year)

										(kgw)
	People						Age (yr)			1
Country	or Place	Year	Sex	1	. 2	3	4	5	6	7
Indonesia ⁽¹⁾	National	1977	M F.		10.4 10.1	12.1 11.6	13.8 13.2	15.5 14.5	15.7 15.7	18.2 17.0
Japan	National	1980	M F	9.7 ⁽²⁾ 9.1	12.2 ⁽²⁾ 11.9	14.3 ⁽²⁾ 13.9	16.1 ⁽²⁾ 15.8	17.9 ⁽²⁾ 17.6	20.9 ⁽³⁾ 20.4	23.2 ⁽³⁾ 22.8
Malaysia	Rural	1960	M F						16.4	17.8 18.6
Philippines	Rural		M F	8.0 7.5	9.5 9.0	11.3 10.8	12.6 12.3	14.3 14.0	15.5 15.5	17.2 16.7
Singapore	Malays ·	1972	M F	8.8 8.0	10.5 10.0	12.3 12.0	13.9 13.5	15.2 14.5	16.7 16.3	18.0 17.9
Эшуароге	Chinese	1972	M F	9.2 8.9	11.4 10.8	13.3 12.7	14.5 14.0	16.0 15.5	18.0 17.0	19.0 18.5
Thailand	National	1980	M F	9.1 ^(a) 8.5	11.0 ^(a) 10.9	13.4 ^(a) 13.0	15.1 ^(a) 14.5	16.83 ⁽⁴⁾ 16.08	18.16 ⁽⁴⁾ 17.52	19.42 ⁽⁴⁾ 19.24

Source: Worldwide variation in human growth, Cambridge University Press, 1976
(1) Data from Dept. of Growth & Development, Univ. of Tsukuba, Japan
(2) Ministry of Health & Welfare, Japan
(3) Ministry of Education, Japan
(4) Ministry of Education, Thailand
Note: (a) Survey in Bangkok

					Age (yr)					
8	9	10	11	12	13	14	15	16	17	18
19.9	21.3	23.3	25.7	27.3	31.8	37.1	40.9	44.7	46.9 44.6	48. 45.
19.2	21.6	23.4	26.3	30.3	33.4	37.6	40.4	43.2	44.6	45.
25.9 (3)	29.0(3)	32,3(3)	35.9(3)	41.2 (3)	46.8 ⁽³⁾	52.1 ⁽³⁾	57.1 ⁽³⁾	59.2 ⁽³⁾	60.6 ⁽³⁾	
25.4	28.5	32.4	38.3	42.4	46.6	49.6	51.7	52.2	52.3	
19.5	20,7	24.2	27.0	29.5	32.5	35.3				
18.7	21.8	24.0	28.5	30.0						
19.1	21.0	22.6	24.6	27.0	33.0	36.0	41.5	46.0		
18.5	20.0	22.5	25.0	29.0	30.5	37.2	41.0	44.5	46.2	
20.0	22.0	24.0	26.5	29.0	32.0	35.0				
19.5	21.5	24.0	27.8	31.5	35.0	38.5				
21.0	23.0	25.0	26.8	30.0	33.8	36.8				
20.0	22.5	25.0	28.5	32.3	35.0	37.5				
21.42 ⁽⁴⁾	23.92 ⁽⁴⁾	23.64 (4)	28.74	31.14(4)	36.45 ⁽⁴⁾	41.93 ⁽⁴⁾	46.89 ⁽⁴⁾	49.26 ⁽⁴⁾	52.38 ⁽⁴⁾	52
21.14	23.54	26.79	29.83	33.97	38.07	42.03	45.31	46.07	47.13	48

15-1. Definition of the Main Terms Used in the Hospital Statistics (WHO)

Personnel to be included in the data	Occupation and level of education	Personnel to be included in the data
All establishments permanently staffed by at least one physician that can offer inpatient accommodation and provide active medical and nursing care. Establishments providing principally custodial care should not be included.	7. Private non- profit-making hospitals	All hospitals, whether subsidized by the government or not, operated on a non-profit-making basis by non-government bodies, such as religious missions, industrial enterprises, trusts, or philanthropic institutions.
Hospitals—other than local or rural hospitals—providing medical and nursing care for more than one category of medical discipling (a.g. general medicine exceptions)	8. Private profit- making hospitals	All private hospitals (or medical establishments with beds) operated on a profit-making basis.
medicine, general surgery, specialized surgery, obstetrics, etc.)	9. Beds	A hospital bed is one regularly maintained and staffed for the accommodation and fulltime care of a succession of inpatients and is situated in wards or a part of the hospital
Hospitals, usually in rural areas, permanently staffed by one or more physicians, which—in respect of their functions—are also general hospitals, but provide medical and nursing care of a more limited range than that provided by principal general hospitals.		where continuous medical care for inpatients is provided. The total of such beds constitutes the normally available bed complement of the hospital. Cribs and bassinets maintained for use by healthy newborn infants who do not require special care should not be included.
Small units, also known as rural health centres, bedded dispensaries, rural maternity homes, etc., not permanently staffed by a physician (but by a medical assistant, nurse, midwife, etc.), which offer inpatient accommodation and	10. Admissions	An inpatient admission is the formal admission by a hospital of an inpatient and always involves the allocation of a hospital bed. Healthy babies born in the hospital should not be counted if they do not require special care.
Hospitals providing medical and nursing care primarily for	11. Discharges (including deaths)	The number of persons, living or dead, whose stay has terminated and whose departure has been officially recorded.
specialized departments administratively attached to a principal general hospital and sometimes located in an annex or separate building; their beds (and the related data) are included with the principal general hospital.	12. Patient days	Total of daily censuses of inpatients in the hospitals during the year. Not included in the daily censuses are healthy babies born in the hospitals if they do not require special care. The day of admission and the day of discharce should
All hospitals administered by a government authority at any level, whether central, intermediate, or local.		be counted together as one day.
	All establishments permanently staffed by at least one physician that can offer inpatient accommodation and provide active medical and nursing care. Establishments providing principally custodial care should not be included. Hospitals—other than local or rural hospitals—providing medical and nursing care for more than one category of medical discipline (e.g., general medicine, specialized medicine, general surgery, specialized surgery, obstetrics, etc.) Hospitals, usually in rural areas, permanently staffed by one or more physicians, which—in respect of their functions—are also general hospitals, but provide medical and nursing care of a more limited range than that provided by principal general hospitals. Small units, also known as rural health centres, bedded dispensaries, rural maternity homes, etc., not permanently staffed by a physician (but by a medical assistant, nurse, midwife, etc.), which offer inpatient accommodation and provide a limited range of medical and nursing care. Hospitals providing medical and nursing care primarily for only one discipline. This category does not include the specialized departments administratively attached to a principal general hospital and sometimes located in an annex or separate building; their beds (and the related data) are included with the principal general hospital. All hospitals administered by a government authority at	All establishments permanently staffed by at least one physician that can offer inpatient accommodation and provide active medical and nursing care. Establishments providing principally custodial care should not be included. Hospitals—other than local or rural hospitals—providing medical and nursing care for more than one category of medical discipline (e.g., general medicine, specialized medicine, general surgery, specialized surgery, obstetrics, etc.) Hospitals, usually in rural areas, permanently staffed by one or more physicians, which—in respect of their functions—are also general hospitals, but provide medical and nursing care of a more limited range than that provided by principal general hospitals. Small units, also known as rural health centres, bedded dispensaries, rural maternity homes, etc., not permanently staffed by a physician (but by a medical assistant, nurse, midwife, etc.), which offer inpatient accommodation and provide a limited range of medical and nursing care. Hospitals providing medical and nursing care primarily for only one discipline. This category does not include the specialized departments administratively attached to a principal general hospital and sometimes located in an annex or separate building; their beds (and the related data) are included with the principal general hospital. All hospitals administered by a government authority at

15-2. Comparative Table of Medical Facilities

	Indonesia	Japan		Malaysia (197	7)			
	(1982)	(1982)	Peninsular Malaysia	Sabah	Sarawak	Philippines (1982)	Singapore (1982)	Thailand (1982)
General Hosp.	v	v	v	v	v	v	v	v
General & Rural Hosp.	v							
Local or Rural Hosp.	v		v	v	ν .			v
Medical Center	v				v	v		v
Internal Medicine Hosp.						V		
Medical & Maternity Center						V		٧
Maternity Hosp.	v	,				٧	٧	v
Infectious Diseases Hosp.	v	v				٧	v	v
Chronic Diseases Hosp.							v	
Leprosy Hosp.	v	٧	V		v			v
Tuberculosis Hosp.		V	v	٧		, v		v
Pediatrics Hosp.						v	v	v
Oto-Rhino-Laryngology Hosp.						v		
Dermato-Venereology Hosp.								v
Ophthalmology Hosp.	v						v	v
Orthopedics Hosp.	v					. v	*	
Mental Hosp.	V	٧	V	ν	v	v	v	v
Cancer Hosp.	v							v
Establ. for Drug Addicts	v					v		v
Other Specialized Hosp.					-	v		v
Rural Hosp. & Nursing Homes			٧					
Tropical Diseases Hosp.								v
Others						v	v	

Fig. 5. Annual Change of Number of Hospitals (Per 100 000)

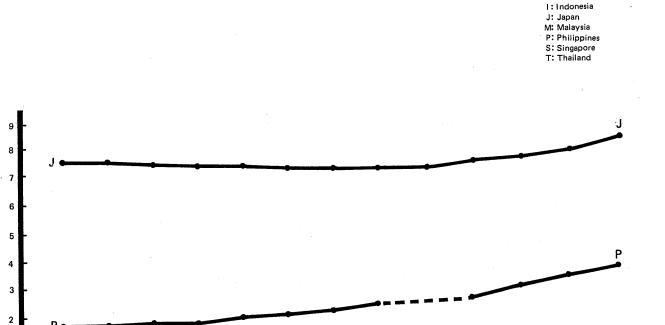
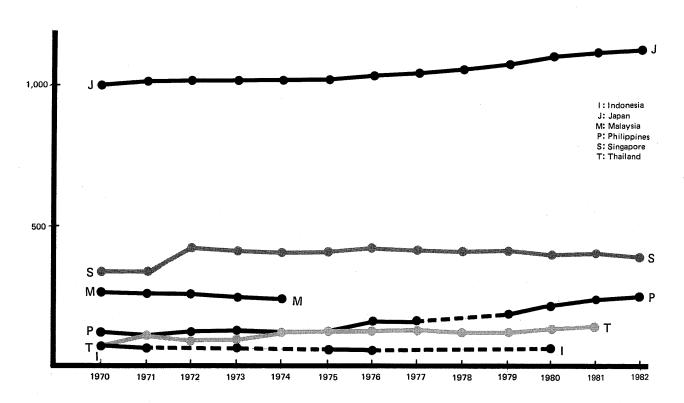


Fig. 6. Annual Change of Number of Beds (Per 100,000)



15-3. Hospital and Other Medical Establishments with Beds (1)

		-	General	Hospitals		G	eneral and	Rural Hospi	tals		Local or F	tural Hospita	als
	Year	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days
Indonesia	1980					642	75,766						
Japan	1980 1981 1982	8,003 8,167 8,340	895,494 941,960 983,345	6,919,198 7,119,899	303,980,016 317,065,559		•	•			•	•	
Malaysia (1) Peninsular Malaysia	1973	28	12,289	398,299	4,827,490					34	7,340	165,288	1,838,505
Sabah	1977	3	1,086	34,456			•			11	1,002	40,653	
Sarawak	1977	7	1,491	58,277						5	268	12,673	
Philippines							•	•			•	•	
Singapore	1982	14	5,061	203,664	1,283,788		•	•			•	•	
Thailand	1981	80	14,014				•		,	552	43,416		

Source: Ministry of Health in each country (1) World Health Statistics Annual, 1973–1980, WHO

			Medica	i Centers		In	ternal Me	dicine Hospit	als	М	edical & M	laternity Cer	ters
	Year	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days
Indonesia								•				•	
Japan			•	•				•				•	
Malaysia Peninsular Malaysia			•	•				•			•	•	
Sabah			-										
Sarawak	1975	61	402										
Philippines	1982*	8	2,600					er.			•	•	
Singapore			•	•	·					·	•	•	-
Thailand	1981	75	1,129				•	•			•	•	*.*

^{*}Government hospitals only

15-3. Hospital and Other Medical Establishments with Beds (2)

			Maternity	Hospitals		Rural	Hospital a	nd Nursing H	lomes	1:	nfectious D	iseases Hosp	itals
	Year	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days
Indonesia	1980	16	943					• •		-			
Japan	1980 1981 1982		•	•				•		20 19 17	18,218 17,094 16,385	6,420	134,470 111,838
Malaysia Peninsular Malaysia	1973					151	4,813						
Sabah		·	•	•						1	•	•	
Sarawak													
Philippines								•					
Singapore	1982	2	705	54,995	211,803			•		2	576	10,291	117,356
Thailand	1981	2	406					•		1	400		

		Chi	ronic Dise	ases Hospita	ls		Lepros	sy Hospitals		Tuberculosis Hospitals				
	Year	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	
Indonesia	1980				(4	33	3,745			13	933			
Japan	1980 1981 1982			• •		16 16 16	12,235 11,636 11,467	355 352	3,143,190 3,069,991	39 34 33	84,905 77,406 70,734	68,190 64,230	17,871,87 15,895,86	
Malaysia Peninsular Malaysia	1973					2	3,565	475	1,301,225	3	566	1,763	106,945	
Sabah	1977		•	•		le c				2	146	525		
Sarawak	1977	and the second second	1.50.000			1	400	47					1	
Philippines											3 0 1		10	
Singapore	1982	1	425	281	132,442							•	17	
Thailand	1981			•		3	2,670			2	688		. =	

15-3. Hospital and Other Medical Establishments with Beds (3)

	Year		Pediatrics	Hospitals		Oto-	Rhino-La	ryngology Ho	pitals	Derr	nato-Ven	ereology Hos	pitals
		Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient Days
Indonesia				*									
Japan		-			-								
Malaysia Peninsular Malaysia)				2,4,11					7
Sabah			•	*				• •				• •	
Sarawak							60				ē	7.5	
Philippines													
Singapore	1982	2	130	266	18,232			• •				. ::•:	
Thailand	1981	1	462							1	43		

9		٥	phthalmol	ogy Hospital	5		Orthoped	ics Hospitals		Mental Hospitals				
	Year	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient Days	
Indonesia	1980					1	150			39	6,398		8	
Japan	1980 1981 1982									977 988 997	308,554 314,065 320,068	216,119 222,075	114,065,92 116,365,59	
Malaysia Peninsular Malaysia	1973									2	6,577	6,024	2,400,60	
Sabah	1977		٠	•			•			1	355	337		
Sarawak	1977						0			1	348	635		
Philippines	1981		•	•		3	745			5	8,360	9		
Singapore	1982	1	20	330	2,823	gal.				3	2,905	5,420	910,62	
Thailand	1981	4	110			100				4	720			

15-3. Hospital and Other Medical Establishments with Beds (4)

			Cancer H	ospitals			Establ. fo	or Drug Addi	cts	Tropical Diseases Hospitals			
	Year	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days
Indonesia	1980	1	60					•				• •	e ^r
Japan			•	•								• •	
Malaysia Peninsular Malaysia													
Sabah			•	• .									
Sarawak													
Philippines			•	•				•	-				
Singapore			•	•				•		•			
Thailand	1981	1	146		·	2	416			1	170		_

		Ot	her Special	ized Hospita	ls			Others			To	otal	
	Year	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days	Establish- ments	Beds	Admis- sions or Discharges	Patient- Days
Indonesia	1980									1,208	98,543		
Japan	1980 1981 1982		(*)	• .			4			9,055 9,224 9,403	1,319,406 1,362,161 1,401,999	7,073,673 7,276,762	394,350,53 408,633,48
Malaysia Peninsular Malaysia	1973									220	35,150	571,789	10,474,770
Sabah	1977									17	2,589	75,971	
Sarawak	1977								3	14	2,507	71,632	
Philippines	1980	5	9,050				18			1,607	81,976		
Singapore	1982			•				• •		25	9,822	275,247	2,677,071
Theiland	1981						9			729	64,844		

15-4. Hospital Utilization by Category of Hospitals (1)

		All Hospitals						General Hospitals						
	Year		Population	Beds	Admissions	Bed Occupancy Rate (%)	Туре	Beds Per 10,000 Pop.	Admissions		Bed	Aver.		
		Туре	Per Bed	Per 10,000 Pop.	Per 10,000 Pop.				Per 10,000 Pop.	Per Bed	Occupancy Rate (%)			
Indonesia	1980	Т	1,502	6.7			т	5.1			57.8	7.0		
Japan	1980 1981 1982	T T T	88.50 86.51 84.67	113.0 115.6 118.1	605.7 618.5	83.5 84.2	T T T	76.5 80.0 82.9	592.5 605.2	7.73 7.56	81.4 81.5 82.0	38 39 40		
Malaysia ⁽¹⁾ Peninsular Malaysia	1973	т	270	36.6	595.6	81.6	Т.	10.2	414.9	32.4	107.6	12.1		
Sabah	1977	Т	300	33.6	986.6		т	14.1	447.5	31.7				
Sarawak	1977	А	530	18.8	538.6		А	11.2	438.2	39.1				
Philippines										-				
Singapore	1982	т	252	39.7	113.5	75.8	Т	20.5	824.0	40.2	71.1	6.3		
Thailand	1981	т	732				т	2.9						

Source: Ministry of Health in each contry (1) World Health Statistics Annual, 1973–1980, Vol 2

Note: Category of Hospital

T = Total

A = Government hospital establishments
B = Private non-profit hospital establishments

			Local or Rural Hospitals						ſ	Medical and	Maternity	Centers	
	Year	_	Beds	Admi	ssions	Beds	Aver.		Beds	E .	issions	Bed	Aver.
		Type	Per 10,000 Pop.	Per 10,000 Pop.	Per Bed	Occupancy Rate (%)	Length of Stay (Days)	Турв	Per 10,000	Per 10,000 Pop.	Per Bed	Occupancy Rate (%)	Length of Stay (Days)
Indonesia													
Japan				• '	•					,	• •		
Malaysia Peninsular Malaysia	1973	т	12.7										
Sabah	1977	т	13.0	528.0	40.6								
Sarawak	1977	А	2.0	95.3	47.3		·						
Philippines			• •										
Singapore	1982	• •											
Thailand	1981	т	9.1										

15-4. Hospital Utilization by Category of Hospitals (2)

				Tubero	ulosis Hosp	itals	-			Mental	Hospitals		
	Year	Туре	Beds	Admi		Bed	Aver		Beds	Adm	issions	Bed	Aver.
			Per 10,000 Pop.	Per 10,000 Pop.	Per Bed	Occupancy Rate (%)	Length of Stay (Days)	Type	Per 10,000 Pop.	Per 10,000 Pop.	Per Bed	Occupancy Rate (%)	Length of Stay (Days)
Indonesia	1980	т	0.1					Т	0.5				
Japan	1980 1981 1982	T T T	7.3 6.6 6.0	5.84 5.46	0.80 0.83	55.4 54.0 54.7	253 241 232	T T T	26.4 26.6 27.0	18.51 18.88	0.70 0.71		535 535 530
Malaysia Peninsular Malaysia	1973	т	0.6	1.8	3.1	51.8	60.7	A	6.9	6.3	0.9	100.0	398.5
Sabah	1977	т	1.9	6.8	3.6			Т	4.6	4.4	0.9		
Sarawak	1977	Т						Α	2.6	4.8	1.8		
Philippines					į								
Singapore	1982			•	•			т	11.8	21.9	1.9	86.2	168.0
Thailand	1981	Т	0.1					Α	0.1				

			Maternity Hospitals				
	Year	Туре	Beds Per	Admi	issions	Bed	Aver.
			10,000 Pop.	Per 10,000 Pop.	Per Bed	Occupancy Rate (%)	Length of Stay (Days
Indonesia	1980	т	0.1			-	
Japan							
Malaysia Peninsular Malaysia							
Sabah							
Sarawak							
Philippines							
Singapore	1982	Т	2.9	222.5	78.0	83.4	3.9
Thailand	1981	В	0.1				

15-5. Number of Hospitals

	1		T		1		l	1	T	
		1970	1975	1976	1977	1978	1979	1980	1981	1982
Indonesia ⁽⁵⁾		1,164	1,115	1,138	1,132	1,169	1,181	1,208	1,239	
Japan ⁽¹⁾		7,974	8,294	8,379	8,470	8,580	8,800	9,055	9,224	9,403
Malaysia ⁽⁴⁾ Peninsular Malaysia		64	·							
Sabah			15	15	17					V
Sarawak		14	14	14	15	15				
Philippines ⁽³⁾	Total Public Private	650 220 430	927 316 611	1,046 375 671	1,108 331 777		1,452 407 1,045	2,02 ⁰ 413 1,607	1,711 511 1,200	
Singapore ⁽²⁾	Total Government Private Other Govern- ment Clinics	171 11 5 155	189 14 8 167	200 13 8 179	207 13 8 186	215 13 10 102	214 13 12 189	215 13 13 189	214 13 13 188	218 13 13 192
Thailand ⁽⁶⁾		98	281	294	317	512	542	636	654	

Source: (1) Data from Ministry of Health & Welfare, Japan (2) Yearbook of Statistics, Singapore, 1982/83 (3) Hospital Listings of Minstry of Health (licenced only, 1979–1981) (4) Statistics Yearbook for Asia and the Pacific 1975–1979, UN

⁽⁵⁾ Data from Ministry of Health, Indonesia

⁽⁶⁾ Data from Ministry of Health, Thailand

15-6 Number of Beds

		1970	1975	1976	1977	1978	1979	1980	1981	1982
Indonesia ⁽⁴⁾	·	86,022	83,696	82,945		94,631	96,739	98,543	102,374	
Japan ⁽¹⁾		1,062,653	1,164,098	1,184,737	1,207,003	1,232,779	1,269,081	1,319,406	1,362,161	1,401,999
Malaysia ⁽⁵⁾ Peninsular Malaysia		27,927					-			
Sabah			2,233	2,309						
Sarawak		2,000	2,358	2,424	2,542	2,576				
Philippines ⁽³⁾	Total Public Private	40,289 19,725 20,564	55,323 27,075 28,248	75,630 44,577 31,053	72,144 38,045 34,099	44,802	76,294 39,129 37,165	81,976 39,625 42,351	88,070 46,631 41,439	
Singapore ⁽²⁾	Total Government Private	6,891	9,105 8,005 1,100	9,709 8,609 1,100	9,671 8,574 1,097	9,583 8,493 1,090	9,746 8,485 1,261	9,579 8,078 1,501	9,899 8,365 1,534	9,822 8,246 1,576
Thailand ⁽⁶⁾		25,619	52,652	56,998	59,482	56,992	60,969	71,718	71,966	

(6) Ministry of Health, Thailand

Source: (1) Data from Ministry of Health & Welfare, Japan
(2) Yearbook of Statistics, Singapore, 1982/83
(3) Hospital Listing of Ministry of Health (only licensed hospitals under MOH excluding Sanitaria and child health clinics in 1979—1981)
(4) Welfare Indicator, 1982
(5) Statistics Yearbook for Asia and the Pacific 1975—1979, UN

16-1. Definition of Medical Personnel (WHO)

	Occupation and level of education	Personnel to be included in the data		Occupation and level of education	Personnel to be included in the data
1.	Physicians High (university) level	All graduates of a medical school of faculty actually working in your country in any medical field (practice, teaching, administration, research, laboratory, etc.).	7.	Pharmacists/Chemists High (university) level	All graduates of a faculty or school of pharmacy actually working in your country in pharmacies, hospitals, laboratories, industry, etc.
2.	Medical assistants Middle level	Personnel performing duties ranging from simple curative procedures for common diseases to wider medical care that may include a variety of diagnostic, curative and preventive practices. These personnel have no medical education of university	8. Pharmaceutical assistants Middle level		Personnel assisting in pharmacies, hospitals, or dispensaries to make and dispense medicaments, under the supervision of a pharmacist. These personnel do not have pharmaceutical education of university level or equivalent.
		level or equivalent.	9.		All graduates of a faculty or school of veterinary
3.	Multipurpose health auxiliaries Basic level	Personnel who may have no more than elementary general education and a few months of in-service training and who provide basic health services at		Veterinary surgeons High (university) level	medicine actually working in your country in any field of veterinary activity, including teaching and public health.
	Basic level	the village level.	10. Animal health		Personnel carrying out limited diagnostic, pre-
4.	Dentists/Dental surgeons (a) High (university)	(a) All graduates of a dental school (or faculty		assistants Middle level	ventive, and curative veterinary services. These personnel have no veterinary education of uni- versity level.
	level (b) Middle (non- university) level	of odontology or stomatology) actually working in your country in any dental field. (b) Personnel qualified from a dental school of non-university level and licensed to practise dentistry in your country.	11.	Professional Midwives High level (a) Non-nurse mid- wives (b) Nurse-midwives	All graduates of a midwifery school actually working in your country in any field of midwifery (practice in institutions and community health services, teaching, administration, private practice, etc.)
5.	Dental operating auxiliaries	Personnel performing a limited range of diagnostic, preventive, and curative services in dentistry. These personnel usually do not have complete dental education of university level or equivalent.	12.	Assistant midwives/ auxiliary midwives Middle level	Personnel carrying out midwifery duties in normal obstetrics, in institutions and other health services, in principle under the supervision of a professional midwife. These personnel do not have the full
6.	Dental non-operating	Dental non-operating auxiliaries who assist dent-			education and training of a professional midwife.
	auxiliaries (a) Dental laboratory technicians (b) Dental chairside assistants	ists and dental operating auxiliaries in their clinical work but who do not carry out any independent intra-oral procedures. These dental personnel usually have technical training either in formal courses or by apprenticeship.	13.	Auxiliary Nurse- midwives Middle level	Personnel performing certain nursing duties and midwifery duties in normal obsterics, in principle under the supervision of a professional nurse or midwife. These personnel have simpler education and training in nursing and midwifery than the professional nurse-midwife.

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	Occupation and level of education	Personnel to be included in the data		Occupation and level of education	Personnel to be included in the data
14.	Professional Nurses High level	All graduates of a nursing school working in your country in any nursing field (general nursing, specialized clinical nursing services in mental health, paediatrics, cardiovascular diseases, etc. public health or occupational health, teaching,	20.	Medical Physicists High (university) level	All graduates of a university or faculty of natural science with qualifications in physics and mathematics and special education and training in the field of medical physics.
		administration, research, etc.). These personnel are qualified and authorized to provide the most responsible and competent professional nursing service.	21.	Medical radiological technicians High-level technicians	Professionals who have graduated from a school for radiological technicians and work under the general responsibility of a specialist or physician in the field of radiology.
15.	Assistant nurses/ auxiliary nurses Middle level	Personnel performing general patient care of a less complex nature in hospitals and other health services, in principle under the supervision of a professional nurse. These personnel do not have the full education and training of a professional			If possible, indicate the distribution of medical radiological technicians according to their field of activity: (a) MRT (General) (b) MRT (Diagnosis) (c) MRT (Therapy)
		nurse.	22.	Assistant medical radiological technicians	Auxiliary medical radiological personnel working under the direct supervision of a medical radio-
16.	Nursing and mid- wifery sids	Personnel performing specified non-technical tasks in institutions or community health services under		Middle-level technicians	logical technician or under a specialist or physician.
	Basic level	nursing supervision. These personnel usually have on-the-job or short training.	23.	Sanitary engineers High (university) level	Professionally qualified engineers specialized in the prevention, control, and management of environ-
17.	Physiotherapists/ Physical therapists	Professional personnel treating patients by exercise, physical means, and massage, usually as prescribed by a physician.			mental factors that influence man's health adverse- ly, e.g., in the design and operation of facilities for water supply, wastes disposal, and air quality control and the planning and administration of
18.	Medical laboratory technicians	Professionals who have graduated from a school for			environmental health programmes.
	High-level technicians	laboratory technicians and work under the respon- sibility of a scientific or medical specialist. They also participate in the supervision, teaching and training of subordinate technical personnel.	24.	Sanitarians High-level technicians	Professional personnel other than physicians in- specting the environment, promoting measures to restore or improve sanitary conditions (food inspection, inspection of public premises, etc.) and supervising the implementation of these measures.
19.	Assistant medical laboratory technicians Middle-level technicians	Auxiliary technical laboratory personnel working under the supervision of a professional laboratory technologist or technician. These auxiliary personnel do not have the full training and theoretical knowledge of the professional.	25.	Auxiliary senitarians Middle-level technicians	Personnel who perform to a limited extent the functions of a professional sanitarian but do not have the full training and theoretical knowledge of the professional.

	Occupation and evel of education	Personnel to be included in the data		Occupation and level of education	Personnel to be included in the data
26.	Other scientific or professional personnel Examples: Biochemists Biologists Entomologists Psychologists	Scientific (university) or professional personnel working in the health field, but not classifiable under previous items (e.g., excluding physicians).	28.	Other health auxiliaries and aides Examples: Microscopists Laboratory aides Dark-room assistants	Health auxiliaries not classifiable under previous items, who generally have not more than primary general education and an elementary technical training by apprenticeship or in-service training.
	Nutritionists Dietitians Occupational therapists Speech therapists Other special therapists Health educators Health statisticians Medical record librarians		29.	Practitioners of traditional medicine/ midwifery Examples: Herb doctors Ayurvedic doctors Lay medical practitioners Medicine men Acupuncturists Traditional birth	
27.	Other technical personnel Examples: Cardiology technicians Encephalographers Opticians Orthopaedic technicians Hearing aid technicians Health statistical technicians Medical record technicians			attendants	

16-2. Comparative Table of Medical Personnel

	Indonesia	Japan] '	Malaysia (1977)				l
	(1982)	(1982)	Peninsular Malaysia	Sabah	Sarawak	Philippines (1982)	Singapore (1982)	Thailand (1982)
Physicians	v	v	v	V	v	v	v	v
Medical assistants			v		v			٧
Multipurpose health auxiliaries				v	V			٧
Dentists/Dental surgeons	v	v	V	٧	v	V	v	v
Dental operating auxiliaries	v	٧	v		v		v	v
Dental non-operating auxiliaries	v			v	v		v	·v
Pharmacists/Chemists	v	v	v	v	v	v	v	v
Pharmaceutical assistants	٧		v	v	v		v	V
Veterinarians/Veterinary surgeons		v	v		v	v	v	v
Animal health assistants					v		v	٧
Professional midwives	v	v	v		v	v	v	v
Assistant midwives/Auxiliary midwives	v		v					v
Auxiliary nurse-midwives			v					٧
Professional nurses	v	· v	v		v	v	V	٧
Assistant nurses/Auxiliary nurses	v	V	v	V.	v	v .	v	٧
Nursing and midwifery aids	v			v		v		٧
Physiotherapists/Physical therapists	v		V	v	v	v	v	V
Medical laboratory technicians	٧		v	٧	v	v	v	v
Assistant medical laboratory technicians	v		V	v	. v	v	v	٧
Medical physicist			٧				v	
Medical radiological technicians	v			v	v	v	v	v
Assistant medical radiological technicians	v		V	v	v		٧	V
Sanitarians			v	v	٧ .	v	v	v
Auxiliary sanitarians			v	v			v	٧
Sanitary engineers			v		V	v	v	v
Other scientific or professional personnel	v		v	v	v	v	v	v
Other technical personnel					v		v	v
Other health auxiliaries and aides	v		v	v	v		ν	v
Practitioners of traditional medicine/Midwi	fery							· v
Dental nurses		***************************************	v	v	v	 	v	· · · · · · · · · · · · · · · · · · ·
Nurses including nurse-midwives				v			· v	

Fig. 7. Annual Change of Number of Physicians (Per 100,000)

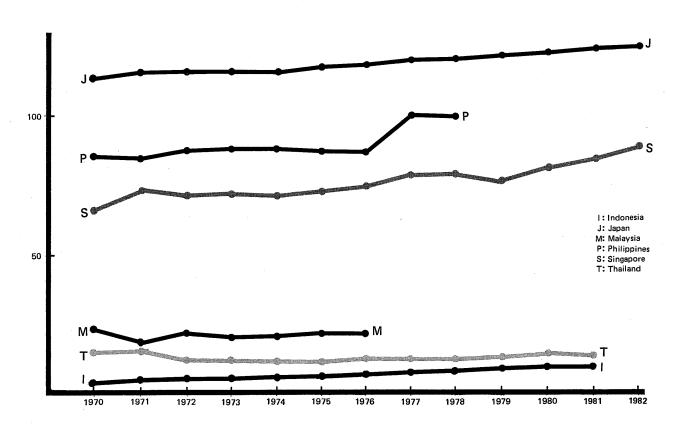
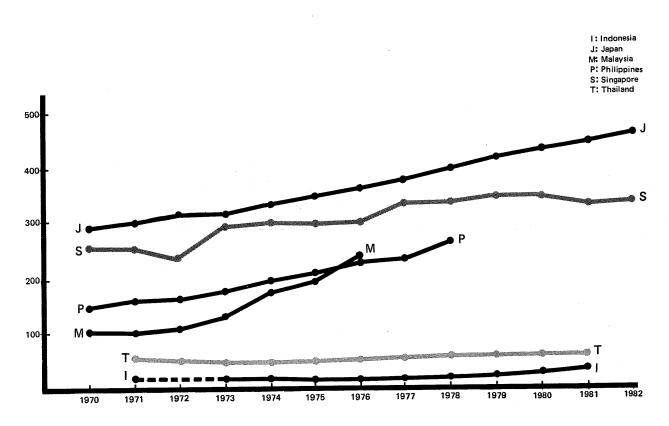


Fig. 8. Annual Change of Number of Nurses and Midwives (Per 100,000)



16-3. Medical and Allied Health Personnel (1)

		Physicians	Medical Assistants	Multi-purpose Health Auxiliaries	Dentists/ Dental Surgeons	Dental Operating Auxiliaries	Dental Non-operating Auxiliaries	Pharmacists/ Chemists	Pharmaceutica Assistants
Indonesia	1977 1978	9,805 10,456	* (6)				1,027 1,277		16,222 17,953
Japan	1980 1981 1982	156,235 162,882 167,952			53,602 56,841 58,362	22,008 24,285 26,658		116,056 120,444 124,390	
Malaysia Peninsular Malaysia ⁽¹⁾	1977	1,438 G							
Sabah	1977	110				• •			
Sarawak	1977								
Philippines	1982	7,378		91,408	8,578	1,386	2,074		
Singapore (1)	1982	2,359			530	234	47 G	373	228
Thailand	1981	6,931	42	249,250	1,132	323	310	2,680	456

Source: Ministry of Health in each country

(1) Workd Health Statistics Annual, 1973-1980, Vol. 2

Note

G: Personnel in government services

1: Entry used for calculation of population/nursing and midwifery personnel ratios

	12	Veterinarians/ Veterinary Surgeons	Animal Health Assist.	Professional Midwives	Assistant Midwives/ Auxiliary Midwives	Auxiliary Nurse- Midwives	Professional Nurses	Assistant Nurses/ Auxiliary Nurses	Nursing and Midwives Aid
Indonesia	1977 1978			717 776	2,148		791 946	18,468	31,941
Japan	1980 1981 1982	25,175 25,667 25,548		25,867 25,538 25,416			248,165 266,745 279,186	239,004 251,352 261,785	
Malaysia Peninsular Malaysia	1977							5,065 G	
Sabah	1977							888 t	
Sarawak	1977					•	-	353 G	
Philippines	1982			62,000			135,711		4,482
Singapore	1982	13 G	115 G	772 t			5,124 †	2,410 †	• •
Thailand	1981	415	116	9,018	8,577	7,363	10,581	10,976	1,017

16-3. Medical and Allied Health Personnel (2)

	Year	Physio- therapists/ Physical therapists	Medical Laboratory Technicians	Assistant Medical Laboratory Technicians	Medical Physicists	Medical Radiological Technicians	Assistant Medical Radiological Technicians	Sanitary Engineers	Saniterians
Indonesia	1981 1983	162 230	21 46	554 1,210		64 44	78 196	1,103 1,969	3,066 5,105
Japan	1981		33,689	2,085	3,501	17,262	3,934		
Malaysia Peninsular Malaysia	1976	48 G	425 G	537 G	4 G			9 G	
Sabah	1976	1	36			7		-	
Sarawak	1976	4 G	59 G	81 G		6	-		
Philippines	1982		2,039			294	• •	105	3,000
Singapore	1982	32 G	189 G	103 G	5 G	101 G	20 G	129 G	217 G
Thailand	1981	256	432	415	103	118	368	48	215

	Year	Auxiliary Sanitarians	Other Scientific or Professional Personnel	Other Tlechnical Personnel	Other Health Auxiliaries and Aids	Practitioners of Traditional Medicine/ Midwifery	Dental Nurses	Nurses Including Nurse- midwives	Orthopaedi Technician
Indonesia							• •		
Japan							• •		
Malaysia Peninsular Malaysia									/* ***
Sabah									
Sarawak			7						
Philippines	1982		621		• •			• •	
Singspore	1982	358 G	54 G	40 G	92 G		342	7,534	
Thailand	1981	7,788)				

16-3. Medical and Allied Health Personnel (3)

	Year	Malaria Field Officers	Medical Social Technicians	Health Statistics Technicians	Medical Statistician	Dental Hygienists	Trained or Rural Midwives	Traditional Birth Attendants	Laboratory Aids
Indonesia					• •		•. •		
Japan	1980 1981 1982	• •			. • •	20,501 23,073 24,836	• •	• •	
Malaysia Peninsular Malaysia			• •	• •					
Sabah					• •	• •		• •	
Sarawak		• •	• •	• •					
Philippines		. • •	• •	• •				20,365	
Singapore	1982	• •	• •			• •	• •	• •	
Thailand	1982		• •	• •			·		

.:	Year	Sanitary Inspectors	Medical Social Workers	Dental Practitioners	Veterinary Assistants	Nurse- midwives	Dental Technicians	Dispensers	Assistant Nurse- midwives
Indonesia	1978 1979		• •	• •	• •	758 893	• •	• •	
Japan			• •		• .•	• •	• •	• •	• •
Malaysia Peninsular Malaysia									
Sabah			• •			• •		-	
Sarawak			,						
Philippines	1982	1,887		• •		. • •		• •	
Singapore	1982	• •	36 G	530	13 G		47 G	205 G	
Thailand	-			• •				• •	

16-3. Medical and Allied Health Personnel (4)

	Year	Nurses	Occupational Therapists	Dietitians	Radio Graphers	Nursing Auxiliaries	X-ray Assistant Technicians	Health Inspectors	Assistant Health Inspectors
Indonesia	1978 1979			1,527 2,027		33,237 35,577			
Japan	1980 1981 1982	487,169 518,097 540,971							• •
Malaysia Peninsular Malaysia	1976	4,169 G†		9 G	190 G		7 G	423 G	538 G
Sabah	1976			2	5	674		42	. • •
Sarawak	1976	319	4 G	3 G	24 G	• •			
Philippines	1982	• •		553	• •		• •	• •	• •
Singapore	1982		22 G	12 G	101 G	• •	• •	217 G	358
Thailand					• •				• •

	Year	Biochemists	Health Educators	Midwives	Micro- scopists	Health Assistants	Entomo- logists	Dental Surgery Assistants	Nutritionists	Darkroom Assistants
Indonesia	1977	• •		12,642				• •	194	
Japan			• •				• •			
Malaysia Peninsular Malaysia	1976	24 G	6 G		•			• •		
Sabah	1976	1	• •	• •	31	53	1	• •	• •	. • •
Sarawak	1976	• •		141		• •		28 G		17 G
Philippines	1982	• •	68		• •	٠.		• •		• •
Singapore	1982	8 G	3 G		•		V	• •	1 G	• •
Thailand					• •			٠.		

16-4. Population / Health Personnel Ratios

	Year	per 10,000	Population per Physicians	per 10,000	Population per Dentists	Pharma- cists per 10,000 Population		Medical Assistants per 10,000 Population		Nursing Personnels per 10,000 Population	Population per Nursing Personnels	Midwifery Personnels per 10,000	Population per Nursing and Midwifery Personnels
Indonesia	1980	0.9	11,448	0.1	120,065	0.2	44,820		• •	2.5	3,947	3.6	2,769
Japan	1980 1981 1982	13.4 13.8 14.2	749 724 707	4.6 4.8 4.9	2,183 2,075 2,033	9.9 10.2 10.5	1,007 978 954		• •	41.7 44.0	240 227	43.9 46.2	228 216
Malaysia Peninsular Malaysia	1977	1.37 G	7,302									11.9 G	841
Sabah	1977	1.43	7,000										
Sarawak	1977					·						7.4 G	1,349
Philippines *	1982	1.45	6,880	0.2	51,484	0.1	100,720	• •	• •	1.8	5,594	3.6	2,743
Singapore	1982	9.5	1,048	2.1	4,664	1.5	6,627			30.5	328	33.4	299
Thailand	1981	1.5	6,851	0.2	41,950	0.6	17,719	0.01	1,130,666				

Source: Ministry of Health in each country Note: *Ministry of Health manpower only G: Personnel in government services

16-5. Number of Medical Personnel **Physicians**

F	1970	1975	1976	1977	1978	1979	1980	1981	1982
Indonesia	3,578	8,279	8,977	9,805 ⁽⁴⁾	10,456	11,681 ⁽⁶⁾	12,931 ⁽⁶⁾	15,400 ⁽⁶⁾	16,000 ⁽⁶
Japan ⁽¹⁾	118,990	132,479	134,934	138,316	142,984	150,229	156,235	162,882	167,952
Malaysia Peninsular Malaysia	2,370	2,511	2,659						
Sabah		102	95						
Sarawak	80	131	135	158	150			14.	
Philippines	31,515	37,276	38,490	47,801	49,110	6,839*	7,259*	7,378*	7,378*
Singapore	1,363	1,622	1,705	1,847	1,850	1,851 ⁽⁵⁾	1,976 ⁽⁵⁾	2,091 ⁽⁵⁾	2,225 ⁽⁵⁾
Thailand	5,407	5,005	5,210	5,790	5,973	6,395	6,867	6,931	11217

Note:

. Ministry of Health manpower only

Source: Statistical Yearbook for Asia and the Pacific 1975-1979, UN.

(1) Data from Ministry of Health & Welfare, Japan

(2) Statistical Handbook Sabah, 1975

(3) Statistical Handbook of Peninsular Malaysia, 1976

(4) World Health Statistics Annual, 1980, Vol. II, WHO.

(5) Yearbook of Statistics, Singapore, 1982/83(6) Statistic Pocketbook of Indonesia (BPS)

16-5. Number of Medical Personnel

Dentists

	1970	1975	1976	1977	1978	1979	1980	1981	1982
Indonesia	452							1,233	1,292
Japan (1)	37,859	43,586	44,382	45,715	48,731	50,821	53,602	56,841	58,362
Malaysia Peninsular Malaysia	630	659 ⁽²⁾	959						
Sabah	15	9	10						
Sarawak	131	104	116	122	122				
Philippines	12,174	13,096	13,370	13,694	14,181	777*	1,029*	1,090 *	984*
Singapore	398	419	433	464	476	494 ⁽³⁾	485 ⁽³⁾	501 ⁽³⁾	530 ⁽³
Thailand	683	652	744	816	1,025	1,122	1,169	1,132	

Source: Statistical Yearbook for Asia and the Pacific, 1975-1979, UN.

Note:

⁽¹⁾ Data from Ministry of Health & Welfare, Japan

⁽²⁾ Statistical Handbook of Peninsular Malaysia, 1976

⁽³⁾ Yearbook of Statistics, Singapore, 1982/83

• Ministry of Health manpower only

16-5. Number of Medical Personnel Pharmacists

A second	1970	1975	1976	1977	1978	1979	1980	1981	1982
Indonesia ⁽¹⁾	1,486	1,825	1,980		2,475	2,723	3,013	3,303	
Japan ⁽²⁾	79,393	94,362	97,474	100,897	104,693	110,774	116,056	120,444	124,390
Malaysia Peninsular Malaysia									
Sabah		10	15		·				
Sarawak		:							
Philippines	19,076	20,838	21,092	21,546	22,186	723*	518*	539*	504 *
Singapore	245	288	298	318	330	351 ⁽²⁾	368 ⁽²⁾	358 ⁽²⁾	373 ⁽²⁾
Theiland	1,407	1,913	2,074	2,236	1,160	1,266	2,650	2,680	

Source: Data from Ministry of Health in each country

(1) Including Practicians, Assistant Pharmacists and First Class Despensers

(2) Yearbook of Statistics, Singapore, 1982/83

Note: * Ministry of Health manpower only

16-5. Number of Medical Personnel Midwives

	1970	1975	1976	1977	1978	1979	1980	1981	1982
Indonesia ·	3,752	10,720	12,642	13,799	14,921	14,921 ⁽¹⁾	15,770 ⁽¹⁾	(1) 40,616 **	-
Japan ⁽¹⁾	28,087	26,742	26,804	26,618	26,493	26,267	25,867	25,538	25,416
Malaysia Peninsular Malaysia	3,509	9,555 ⁽²⁾	10,353						
Sabah		195 ⁽³⁾							
Sarawak	589	871	926	1,034	1,140				
Philippines	16,082	26,680	31,958	27,430	30,295	8,698*	9,329*	9,470*	9,428 *
Singapore (4)	1,058	930	925	863	857	807	779	766	722
Thailand	4,203	6,335	7,304	7,436	7,915	8,677	8,669	8,577	

Note:

Source: Data from Ministry of Health in each country

(1) Welfare Indicator, Indonesia, 1982

(2) Statistical Handbook of Peninsular Malaysia, 1976

(3) Statistical Handbook, Sabah, 1975

(4) Yearbook of Statistics, Singapore, 1982/83

Ministry of Health manpower only
 Combined data of midwives and nurses

16-5. Number of Medical Personnel Nurses

	1970	1975	1976	1977	1978	1979	1980	1981	1982
Indonesia (1)		9,856	11,284	13,912	16,140	17,084 ⁽²⁾	37,693**	40,616**	
Japan ⁽²⁾	273,572	361,604	382,459	404 156	431,911	458,362	487,169	518,097	540,971
Malaysia Peninsular Malaysia ⁽³⁾ .	7,279 ⁽⁷⁾	13,352	25,805				·		. *
Sabah	·	970 ⁽⁸⁾							
Sarawak ⁽⁴⁾	559	1,074	1,143	1,168	1,206				
Philippines	38,918	64,155	71,585	80,781	94,411	8,523*	9,605*	9,644*	9,075*
Singapore ⁽⁵⁾	4,304	5,767	5,960	6,814	7,069	7,405	7,545	7,240	7,534
Thailand (6)	15,387	18,993	21,004	22,667	16,515	17,211	18,483	19,599	

Source: Data from Ministry of Health in each country

- (1) Nurses and similar personnel
- (2) Welfare Indicator, Indonesia, 1982
- (3) Nurses and assistant nurses
- (4) Trianed nurses, assistant nurses and hospital assistant
- (5) Yearbook of Statistics, Singapore, 1982/83
- (6) Public Health Statistics, 1972, Ministry of Public Health, Bangkok
- (7) Statistical Handbook of Peninsular Malaysia, 1976
- (8) Statistical Handbook Sabah, 1975

Note:

- Ministry of Health manpower only
 Combined data of nurses and midwives

17-1. Situation of Medical Schools

	Academic Year	Number of Medical Schools	Duration of Studies	Total Enrolment	Admissions	Graduates
INDONESIA (1)	1981/1982	13	7 Years(a)	N: 15,725 ^(b) F: 46	N: 1,632 F: 26	1,296
JAPAN	1982/1983	79	6 Years	• •	8,260	12,833
MALAYSIA	1975/1976	2	5 or 6 Years ^(c)	N: 808	N: 205	N: 113
PHILIPPINES	1975/1976 1983 ⁽²⁾	g(d) 23	5 Years	 3,640*		1700 1852—1981
SINGAPORE	1982/1983 ⁽³⁾	1	5 Years	N: 718 F: 109	N: 163 F: 37	N: 119 F: 8
THAILAND	1976/1977	7	4 Years	• •	• •	430

Source: World Directory of Medical Schools 1979, WHO

Note:

- (a) 6 Years at the University of Indonesia Medical Faculty, Jakarta
- (b) N: Nations, F: Foreigners
- (c) 5 Years at the University of Malaya; 6 Years at the National University of Malaysia (including a 1-year premedical course)
- (d) 6 new schools opened in the academic year 1977/1978.
- (1) Consorhon Medical Service, May 1982
- (2) Association of Philippine Medical Colleges
 - * Only Freshman enrolment for year 1982-1983
- (3) National University of Singapore

APPENDIX

List of Organizations Related to Health Statistics

WHO Regional Office for the Western Pacific

United Nations Avenue P.O. Box 2932, 12115, Manila

The Philippines

WHO Regional Office for South East Asia

World Health House, New Delhi, 1.10.002, India

INDONESIA

Monitoring & Reporting Division
Planning Bureau, Ministry of Health

(Departmen Kesehatan)

Directorate General of Communicable Diseases Control,

Ministry of Health

Central Bureau of Statistics

Jalan Prapatan 10, Jakarta

Jalan Percetakan Negara I P.O. Box 223, Jakarta

Jalan Dr. Sutomo No. 8 P.O. Box 3, Jakarta

JAPAN

Communicable Diseases Surveillance Division

Public Health Bureau, Ministry of Health and Welfare

Health and Welfare Statistics Department

Ministry of Health and Welfare

2-2, Kasumigaseki 1-chome, Chiyoda-ku, Tokyo 100

42, Ichigaya-Honmuracho, Shinjuku-ku, Tokyo 162

MALAYSIA

Health Information & Statistics

Ministry of Health (Kementarian Kesihatan)

Epidemiology Unit, Ministry of Health

Department of Statistics

Jalan Cenderasari, Kuala Lumpur

Jalan Cenderasari, Kuala Lumpur

Kuala Lumpur Kota Kinabalu, Sabah

Kuching, Sarawak

PHILIPPINES

Disease Intelligence Center, Ministry of Health National Economic and Development Authority San Lazaro Compound, Rizal Avenue, Manila P.O. Box 1116, Manila

SINGAPORE

Research & Evaluation Section, Ministry of Health

Committee on Epidemic Diseases, General Hospital Ministry of Health

Department of Statistics

Cuppage Center, 55 Cuppage Road

Singapore 0922

Outram Road, Singapore 0316

P.O. Box 3010, Singapore 1

THAILAND

Division of Health Statistics Ministry of Public Health

Division of Epidemiology Ministry of Publica Health

National Statistical Office Office for the Prime Minister Devaves Palace, Samsen Road Bangkok 10200

Devaves Palace, Samsen Road Bangkok 10200

Bangkok Metropolis

Part II THE OUTLINE OF HEALTH STATISTICS IN SEAMIC COUNTRIES AND JAPAN

Sources of Medical and Health Statistics in Indonesia

I. POPULATION AND VITAL STATISTICS

1. Background Information

The main sources of information on population and vital statistics of Indonesia are from censuses and vital registration of birth and deaths.

Indonesia conducted its first population census in 1961 followed by ten-year interval cansuses in 1971 and 1980. The whole process of censuses were carried out under the supervision of the Central Bureau of Statistics.

Based on the Presidential Decree No.52/1977 on population registration, all occurrences of births and deaths within Indonesia are required to be reported within stipulated periods. The registration system is not yet operating as good as it should be.

2. Purpose

The main purpose of conducting these censuses is to obtain updated information on the population in the country. The information is used for planning and for evaluating programmes such as housing, education, health, etc.

In the case of vital registration, the aim is to collect detailed information on births and deaths including the underlying causes of mortality. These data are essential for analysing the changes happened in the society.

3. Coverage

Census covers the whole population of indonesia, included non-diplomatic foreigners, crew of Indonesian ships and tramps.

4. Contents

The contents of the 1980 census form, could be classified under the following broad categories:

- a. Demographic characteristics
- b. Economic characteristics and employments
- c. Houses and households
- d. Language and dialect spoken at home
- e. Religion.

Forms for birth registration include identification of the baby (name, sex, date of birth, location of birth and attendant), identification of the mother (name, address, age, citizenship) and identification of the father (name, age, address, citizenship).

Death registration include name, address, age, date of birth, citizenship, religion, marital status, employment status, and cause of death.

5. Data Collection Procedures

The census field workers visit the people at their place of residence on the census day. The houses are numbered, households identified and listed. Generally each head of the family is interviewed. The whole process of enumeration and data collection is carried out under the supervision of Central Bureau of Statistics.

The registration of births and deaths is done at the village level and sent to the central level through a long process, namely, district, regional and provincial level. The collection of vital statistics information is done under supervision of the Ministry of Home Affairs.

6. Analysis

The Central Bureau of Statistics is responsible for the tabulation and publication of the census results.

II. HEALTH SERVICES UTILIZATION STATISTICS

1. Background Information

In general health facilities which provide direct services to the community can be divided into two main categories, namely, the Health Centres and the Hospital. The reporting and recording system of these two kinds of facilities are regulated by Decrees of the Ministry of Health, No.651 of the year 1972 concerning Hospitals and No.63 of the year 1981 concerning the Health Centres.

In fact, these regulations are also valid for facilities of the private sectors, but up to now they only apply to government facilities.

2. Purpose

One of the objectives is to monitor and make a short-term appraisal of the performance of the various services within the Department of Health as well as the private sectors. The statistical information is also utilized in conjunction with other data for purposes of planning and evaluation.

3. Coverage

Statistics collected from the hospitals cover all activities of government and private hospitals. Report from the Health Centres covers only government facilities. Private practices or clinics have not yet been covered.

4. Contents

The hospital reporting system consists of four main parts, i.e.

- a. Hospital activities report containing information on patient admissions, bed occupancy, length of stay and discharges by type of class.
- b. Morbidity report of inpatients who been treated in the hospital.
- c. Morbidity report of outpatients who been covered by its outpatients departments.
- d. Inventory report.

The Health Centre Reporting and Recording System covers report on number and morbidity of patients, drugs, activities of Health Centre such as school health, public health nursing, health education, etc.

5. Data Collection Procedure

The data are presented in prescribed forms from hospital and Health Centres and submitted to the Directorate Generals, Medical Care and Community Health.

6. Tabulation and Publication

The data are collected and published annually in the form of special reports.

III. MORBIDITY STATISTICS

1. Background Information

Communicable diseases constitute one of the main health problems in Indonesia because of its high morbidity and mortality rate. It should therefore be handled in a direct and systematic way. For this purpose a quick and reliable information is necessary.

The reporting and recording from the health centres and hospitals include the morbidity data of patients, while epidemic diseases are reported directly to the Directorate General of Communicable Disease Control. Non epidemic diseases are reported through reporting and recording system of the health centres and hospitals to the Directorates General of Community Health and Medical Care once a month.

2. Purpose

Collection of information concerning the number of patients of all kinds of diseases (communicable and anon-communicable) will be used for planning, monitoring, evaluation and control.

3. Coverage

The reports only cover data from Health Centres and Hospitals, while reports concerning diseases which treated by private practice or private clinics are not yet included.

Nevertheless, we already have information from Health Centres and hospitals throughout Indonesia, it can therefore be considered as representative of the situation in Indonesia.

4. Contents

Epidemic diseases are reported once a week, according to location. This report includes the number of patients and the number of deaths.

Other diseases are reported through the reporting and recording system, according to the age, type of diseases (ICD-IX) and number of cases once a month.

5. Data Collection Procedures

For epidemic diseases the completed froms are sent directly to the Directorate General of Communicable Disease Control. For other diseases, forms from the health centre and hospital are sent to the Directorates General of Community Health and Medical Care with a copy to the Provincial Health Office.

6. Analysis

From the reports the kinds of main diseases as well as the pattern of morbidity can be analyzed. The results are published yearly through epidemiological news, health survey reports, etc.

(Bureau of Planning, Ministry of Health)

Health Statistical Information System in Malaysia

1. Introduction

- 1.1. With rapid development taking place in Malaysia for the past two decades, Malaysian Government has recognized the importance of effective and efficient operation which can be achieved through appropriate action at corrective intervention based on informed and considered decisions depending on accurate and timely information.
- 1.2. In line with the New Economic Policy (NEP) of reducing poverty by raising income levels and increasing employment, and restructing of society to eliminate the identification of groups with economic function, Ministry of Health (MOH) had also identified problem priorities; programme specific objectives and appropriate strategies to contribute towards a standard of health which enable people to lead an economically and socially productive life.
- 1.3. With a view to assist in overall health programme planning management, modern management techniques have been developed and used to improve on its performance at all levels leading to a growing need for valid and relevant information base.

2. Existing Health Statistical Information System Service

2.1. At present, the MOH Information System is still 'Statistical' in nature. Quite a lot of statistical information has been collected, but the rigidity and small amount of relevant data limits the value of the system. The information collected are in a summarized form, detailing the experience of workload over a definite period of time. The reports are compiled on a medium administrative level, and national figures are combination of district or state level. The information are used mainly for management of health services rather than for patient management.

- 2.2. There is duplication of data collection and the capacity to handle data is rather limited. The system is quite simple and does not require much expertise. But some of the specific system can be very well developed to meet specific needs. The rigidity of the system does not allow for changing requirement. It is a manual-based system.
- 3. Types of Health and Health Related Information Used to Support the Management Functions of MOH

 The type of information collected and utilized would be categorised into:
- 3.1. Social and Social-Economic Development Status Information. These information are provided by Department of Statistics, the Prime Minister Department and The Registrar-General of Births and Deaths, Ministry of Home Affairs.
 - * Population distribution by geographical division
 - * Population by sex and age group
 - * Population composition by ethnicity
 - * Population growth rate
 - * Crude birth rate
 - * Crude death rate
 - * Neo-natal death rate
 - * Post-neonatal death rate
 - * Toddler mortality rate
 - * Maternal mortality rate
 - * Gross reproduction rate
 - * Net reproduction rate
 - * Life expectancy by specific age group
 - * Average weight of baby at birth
 - * Dependancy ratios.
- 3.2. Other Socio-Economic Development Status Information
 - * Literary level by sex and age group
 - * School enrolment data by education level
 - * Gross nlational product
 - * Gross domestic product
 - * Health budget as percentage of national budget
 - * Government health expenditure (per capita)

Ministry of Education

Ministry of Finance

* Industrial absenteeism rate from work due to illness or injury

* Percentage of labour force and its distribution

Ministry of Labour and Manpower

Other related socio-economic information e.g. standard of living, housing, nutrition, employment, safety environment problems and social welfare, etc. required by MOH in the formulation of Five-Year Plan are also provided by other ministries/agencies like Economic Planning Unit; National Family Planning Board of the Prime Minister Department; Ministry of Social Welfare; Ministry of Environment, Science and Technology; etc.

These are useful information which form part of the strategy for the development of a comprehensive health service system in the country.

4. Information Related to Specific Health Problem

The information classified under this section is useful to the planners and implementators of the specific health programmes as a feedback to evaluate the performance, acceptance and effectiveness of the programme over a period of time or comparison over place. The information are specific to the each programme in terms of problem identification and performance assessment.

4.1. Communicable Diseases

A specific list of communicable diseases are compiled every year by geographical distribution, age, sex, etc. Absolute number, prevalence, incidence and mortality rates of the diseases are provided by MOH over time. These diseases include cholera, typhoid, food poisoning, dysentery, T.B., leprosy, diphtheria, poliomyelities, measles, dengue fever/dengue haemorrhagic fever, infectious hepatitis, malaria, yaws, filariasis, sexually transmitted diseases, etc.

4.2 Principal Causes of outpatient Attendances and Adminissions to Government Hospitals and Their Rates In order to monitor the changing pattern of diseases over time, these information are compiled annually from hospital statistics. Though only absolute numbers and percentage distribution are provided, attempts have been made to relate diseases pattern to other demographic variables like age, sex and geographical distribution.

4.3. Hospital Utilization Indices

These include standard measures like bed occupancy rate; mean length of stay; outpatient/admission ratio. Similarly attempts have been made to analyse the data by clinical specialities/disciplines and type of medical care establishments.

4.4. Information on Specific Diseases

Diseases which are accounting for high morbidity or mortality pattern of the population at risk are being monitored at the national level. More detailed analyses are being done on these in terms of type, sex, age and other characteristics. Examples are cancer, accidents, heart and cardio-vascular disease, hypertension, nutritional deficiency, metabolic diseases, diabetes mellitus, etc.

4.5. Information Collected through Special Studies/Surveys

Sometimes through surveys or studies, we also collect information related to specific programmes. Examples are Dental Epidemiological Study for school children (1970); Dental Epidemiological Study for adults (1974), Peninsular Malaysia: Risk Approach Study in identifying problems related to high risk mothers for formulation of intervention strategy, etc.

Of course, this is not the complete list of specific programmes that generate information for own use, it includes other programmes like general sanitation, school health services, family planning services, occupational health, health education, food quality control and many others.

5. Health Service Improvement Information

Health Facilities—Two aspects would be distinguished. One relates to existing infrastructure which are providing medical, health and dental care services; the other relates to the development projects on new infrastructure under construction. As long as service infrastructure are concerned, they would be categorised into

Medical Special Hospital

General Hospital

District Hospital with Specialists District Hospital without Specialists

Urban Polyclinics

Health Health Centres

Maternal and Child Health Centres

Community Nurse Clinics

Midwife Clinic

Static Dispensaires

Mobil Dispensaires

Mobile Health Team

Dental Urban Dental Clinics

Hospital Dental Clinics
Health Centre Dental Clinics
School Dental Clinics
School Dental Centres
Mobile Dental Squads.

Information related to facilities are generally expressed in terms of absolute number and ratios related to population serve. This includes

- * Acute Hospital beds per 1000 population by geographical distribution
- * Health Centre/rural population ratio
- * Midwife Clinics/rural population ratio
- * Dental Units/population ratio

On development projects, a monitoring system was established to assess the physical progress on construction on a quarterly basis.

- 5.2. Finance—The financing for the activities of MOH is divided into two components, i.e. the operating and development budget. Both operating and development budget and expenditure are available by specific health programmes.
- 5.3 Health Manpower—The following type of health and health-related manpower have been compiled on an annual basis and manpower/population ratios are tabulated by region; between public and private sectors for comparison purposes.
 - * Doctor
 - * Dentist
 - * Pharmacist
 - [•] Nurse
 - * Assistant Nurse.
 - * Midwife (Division II)
 - * Community Health Nurse/Midwife
 - * Dental Nurse
 - * Public Health Inspector
 - * Medical Lab. Technologist
 - * Radiographer
 - * Pharmacist Assistant
 - * Hospital Assistant

5.4. Health Manpower Training and Development

At present, the following types of manpower are being traineed in local training institutions with a view to further develop adequate professional and paramedical personnel to meet future manpower requirements of the health section.

A listing on the type of manpower trained, number of training institutions and the annual intake capacity are provided each year.

- Types of manpower trained by MOH:
- * Nurse
- * Assistant Nurse
- * Community Health Nurse
- * Midwife (Division II)
- * Midwife
- * Hospital Assistant
- * Junior Hospital Assistant
- * Radiographer
- * Pharmacist Assistant
- * Pharmacy Lab. Assistant
- * Physiotherapist
- * Medical Lab. Technologist
- * Assistant Medical Lab. Technologist
- * Junior Lab. Technician
- * Public Health Inspector
- * Public Health Overseer
- * Anti-malarial Inspector
- * Dental Nurse
- * Dental Technician
- * Dental Surgeons Assistant
- * Health Education Officer
- Types of manpower trained by Ministry of Education :
- * Doctor
- * Dentist
- * Pharmacist

- 5.5 Information Related to Performance of Health Programmes

 The types of information coveral under this heading are mostly performance based and related to specific health programme.
 - 5.5.1. Family Health Programme Examples are
 - * B.C.G. coverage of infants by geographical distribution
 - * Polio immunization coverage for infants
 - * Coverage of infants for diphtheria, pertusis and tetanus immunization by public health facilities
 - * Deliveries attended by trained personnel
 - * Coverage of ante-natal mothers for tetanus toxoid
 - * Supplementary feeding beneficiaries, etc.
 - 5.5.2. Environmental Sanitation Programme
 - * Population coverage with safe water supply
 - * Sanitary latrine population coverage.
 - 5.5.3. Medical Care Programme
 - * Outpatient attendance per 1000 population
 - * Inpatient admission per 1000 population
 - * Hospital care fatality rate.
 - 5.5.4. Dental Care Programme
 - * Primary school children covered by dental care service.
 - 5.5.5. Special Programme
 - * Leprosy/T.B. cases on treatment
 - * Defaulter rate of leprosy/T.B.
 - * Average monthly retrieval rate for leprosy/T.B.

6. Current Development of Information System in MOH

6.1. In the past five years, MOH has attempted to improve the traditional statistical information system by developing a management oriented system to support the management functions of the decision-makers within MOH. This need was necessary in view of the widening gap in data generation and information untilization,

increasing tendency towards data duplication in collection; improper storage and retrieval system and lack of standardization procedures, inadequate data analysis and information extraction plus lack of prioritization of information for generation, selective and timely transmission of relevant and critical information. As such, a project entitled "Development of Health Management Information System" was initiated in 1976 to undertake the major task of improving the health statistics system of MOH.

- 6.2. MOH objectives were the point of departure for identification of functional sub-systems. As can be seen from Figure I that, the three main programmes which contribute to the overall Ministry's objectives are health, medical care and dental care sub-system. The other supportive/resource sub-systems are personnel, finance, supplies, facilities and training.
- 6.3. Within each programme sub-system, based on the objectives of the sub-system; a further breakdown of sub-sub-systems based on functions/activities is possible; and Figure I also shows the sub-sub-systems which constitute the functional components of MOH Programme.
- 6.4. Information common to two or more sub-sub-systems were consolidated for integration of generation. Information specific to a particular programme or sub-sub-system are generated separately. This is to ensure redundancy of data generation being avoided; hereby reducing the data generation work at the operational level.
- 6.5. As a result of this study, a new organisation called Central Unit of Information and Documentation System which is responsible for the collection, transmission, processing, storage, retrieval, information presentation and dissemination was established under the Directorate of Planning and Development. See Figure 2 for the structure and responsibilities under each section.

Figure 1. Subsystems and Sub-subsystems of the Ministry of Health

		DENTAL			Fluoridation Personnel Dental Care										P.O.	VES
	13			Health Supportive — Health Education, Epidemiology, Applied Food and Nutrition										(P.O.)	OBJECTIVES	
	SUBSYSTEMS	!		Tuberculosis Control												
		i			Leprosy Control									P.O. PROGRAMME OBJECTIVES (P.O.)	MINISTRY OF HEALTH'S OB	
		i	S	_	Malaria Eradication Occupational Health											
	l a		Ē													
	PROGRAMME SU	НЕАСТН	SŢ		Vector Control											
		<u> </u>	5	_	Disease Control & International Health											
		E/	JB		Filariasis Control											
1 2		I	SOB-SUBSYSTEMS	-	General Sanitation											
>		ğ 10			Food Sanitation .											
15					School Health											
14					Family Planning											
121					Child Care											
1 + 2		<u> </u>	7		Maternal Care											
3Y OF HEALTH — MALAYSIA HEALTHSYSTEM —		PATIENT	1 -		Patient-care Supportive											
		42	1 ;	In-patient										٠.		
1 부 모	\vdash		- 1		Out-patient Out-patient											1
1	į															
OF EAL	-			_		1				1					1	
MINISTRY - HE	MANAGEMENT	SUB-SUBSYSTEMS		÷	General Finance	Manpower Supply	Maintenance	Technology for Training	Training of Man-	Quality Control	itory	. ,	al ies	2.2		
		S-B-S	1	Budget	Genera	Manpo	Manpower	Techno	Trainir	Quality	Regulatory	Supply	Physical Facilities	2		
	RESOURCE	SUBSYSTEMS		FINANCE		SERVICE	PERSONNEL)				SUPPLIES		FACILITIES	RESEARCH		

Figure 2. Functions of Information and Documentation Systems Unit

INFORMATION & DOCUMENTATION SYSTEM UNIT Health Service Research Section **Documentation Section** Information & EDP Section System Development Section Cataloguing and indexing Development of research • Implementation of HMIS Development of E.D.P. of all available informamethodology support and capability • Development of undeveloption in MOH Collection, collation, Surveys or studies of ed components of HMIS • Repository of all availcatering information not processing and analysis Review and revision of built in the regular of data from states able documents, research, method of data generation; information system papers, circulars, Storage, retrieval and transcommunication flow directives etc. Evaluation of health promission of information design of information through routine reports. Processing of requests grames-their objectives, Monitoring of the utilistrategies, activities and for information. • Programming and debugging zation of information and dissemination and transachievements. their appropriateness and Training of information mission of information timeliness in management production personnel and Development of medical users of information Review of information needs records and medical in the light of changing Provision of expertise and record libraries functions and management capability to subsidiary · Review of medical record styles data collection centres. systems if necessary Training of generators, Production of annual supervisors and managers in reports and other methods of data and relevant reports information generation Maintenance and updating Establishment of intra and

inter linkages with other

information systems both internally and externally.

information in Operation

Room.

6.6. Under HMIS, there has been a shift in information content from measurement of workload/output by activities towards measurement in the quality of health care services. The type of information identified, to a considerable extent, are supposed to measure coverage, continuity, accessibility, availability, and acceptability and utilization of health care services. The following table shows a few examples on the 'old' and 'new' type of information collected.

Traditional Information	New Information					
Total number of complication of neo-nates refers to hospital.	ed 1. Total number of complication of neo-nates referred to hospitals and health centres by types.					
Total number of mothers covered by post-natal home visit.	2. Average number of post-natal home visits done per mother.					
3. BCG immunization coverage of primary school children (Std. I and Std. VI).	 3. B.C.G. immunization coverage of — Std. I pupils without BCG scars. — Std. VI pupils with less than 2 BCG scars. 					
4. Total number of admission by sex.	4. Total number of admission by sex, and by discipline.					
5. Hospital bed occupancy rate.	5. Bed occupancy rate by various discipline.					

- 6.7. Apart from this, there are feasible potential benefits which include
 - * Standardization in information
 - in terminology
 - in forms.
 - * Complete, consistent and more reliable information.
 - * Information are comparable over space
 - time
 - sub programmes/ activities.
 - * Improved management because of better quality data and use-oriented information.
 - * Integration with other system
 - * Elimination of redundancy in data generation.

6.8. However, in view of prevailing economic recession, the implementation plan towards computerisation of the system has been deferred to a future data.

7. Other Health Information related Activities

Apart from collecting routine information; MOH also developed health indicators, summarized indices, used to measure performance and impact of health services on the population. They are also used to assess achievement of objectives to see if resources have been effectively and efficiently utilized.

- 7.1. HealthProgramme Indicators Developed specifically to monitor the prevailing health problems and health actions towards specific goals or objectives and expected output or outcomes. It is supposed to be updated 5 yearly.
- 7.2. Indicators for Monitoring and Evaluation of Strategy for Health for All by the Year 2000 (HFA/2000)—
 Done at the recommendation of W.H.O. working group on indicators (W.H.O. Regional Office for Western Pacific Region) with the view and need to strengthen managerial processes for national health development.
- 7.3. MOH Annual Report The First MOH Annual Report (being published) detailing the programme objectives, activities and achievements, etc. has being done.

8. Future Needs

From system planning view point, the following have been identified as priority areas which need immediate improvement and expansion of management information system.

- 8.1. Strengthening the gap between data generation and analysis, and utilization of information for decision making by management.
- 8.2. Improve the mechanism for data processing and retrieval system for increased number of variables for analysis.
- 8.3. Intensify the training of information system personnel, particularly in medical records, to meet changing needs.

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(International Division, Minsistry of Health)

Health Statistics in the Philippines

I. MORBIDITY STATISTICS

1. History

Data on notifiable diseases are based on informations gathered by field health personnel as provided for in the Law on Reporting of Communicable Diseases (Act 3573) passed in November 26, 1929.

2. Purpose

The purpose of these statistics is to obtain information on the trend of occurrence of major communicable diseases and their epidemiological features for surveillance and institution of appropriate preventive and control measures.

3. Coverage

Nationwide.

4. Contents of Reporting Forms

Weekly number of cases and deaths of Notifiable Diseases by age and sex and by place of occurrence.

5. Data Collection Procedure

The DIC-2 Forms used are submitted simultaneously to the Regional Health Office and the Disease Intelligence Center by the City Health Office, Municipalities, Provincial Health Office comprising such regions.

6. Consolidation, Analysis and Presentation

These reports are consolidated for the regions and the whole country. The 10 leading causes are listed, and the annual morbidity rates, incidence rates and expected levels are computed.

The DIC takes charge of the tabulation and results are released through the following regular publications:

- A. DIC Bulletin—Weekly
- B. Weekly Disease Intelligence—Weekly
- C. Philippine Health Statistics—Annual
- D. State of Health—every 3 years

II. MORTALITY STATISTICS

1. History

Deaths and fetal deaths are registered in accordance with Civil Registry Act Number 3753 within 48 hours after death.

2. Purpose

These statistics are used for medical and legal purposes. Medical—to gather information on the causes of death for specific group of people for purposes of prevention and control. Legal—so that the deceased person will be relieved from social, legal and official obligations.

3. Coverage

Nationwide.

4. Contents of Reporting Form

The reports are based on the data compiled from the death certificates of the Office of the Local Civil Registrar and are submitted to the DIC, Ministry of Health using the DIC Form 3 (Monthly Mortality Report). These data are tabulated by place of occurrence, by cause, age, sex and medical attendance.

5. Data Collection Procedure

Data are gathered by field health personnel of each Municipalities, Cities, Provincial Health Office and are simultaneously submitted to the Regional Health Office and the Disease Intelligence Center, Ministry of Health

every month or after each calendar year.

6. Consolidation, Analysis and Presentation

The Disease Intelligence Center consolidates monthly reports from City Health Office and Provincial Health Office and makes the final analysis of the annual data. These are presented by frequencies, comparisons, trends and distribution of total mortality, infant mortality, maternal mortality and fetal mortality throughout the Philippines in the Annual Philippine Health Statistics.

III. NATALITY STATISTICS

1. History

As provided for by the Civil Registry Act #3753 and Presidential Decree #651 s. 1975, all livebirths shall be registered within 30 days from date of birth.

2. Purpose

The purpose of these statistics is to determine the number of livebirths in the Philippines and in addition to obtain the fertility rates among Filipinos and statistical indices computed to be used in the appraisal of the nation's state of health.

3. Coverage

Nationwide.

4. Contents of Reporting Form

Natality statistics are consolidated using DIC form 4 (Monthly report on births) and are tabulated by sex, nationality, place of birth, attendance, age of mother and legitimacy.

5. Data Collection Procedure

All municipalities/cities/provincials in their health offices submit their monthly report to their respective Regional Health Office and to the Disease Intelligence Center, Ministry of Health.

6. Consolidation, Analysis and Presentation

Appropriate and practical graphical and diagrammatic presentation are made at each level as released by the

DIC in its annual Philippine Health Statistics. These data presents the monthly and annual trends, sex ratios, attendance by birth, illegitimacy ratio and births by location.

IV. POPULATION STATISTICS

1. History

The Disease Intelligence Center obtain yearly population statistics from the National Census and Statistics Office. The first census was done in March 1903 and the latest was held in May 1980.

2. Purpose

The purpose of this census is to provide data on the present situation of population in the Philippines.

3. Coverage

Nationwide.

4. Contents of Reporting Form

The population by municipalities/cities/provinces/regions and the total Philippine population are tabulated by age, sex and other demographic characteristics such as distribution by occupation, educational attainment, income, rural or urban.

5. Data Collection Procedure

The population statistics or censuses are conducted in the Philippines every 10 or 5 years using enumerator or interview method.

6. Consolidation, Analysis and Presentation

The total population by age, sex, citizenship, place of birth, marital status, educational characteristics and language is released by the National Census and Statistics Office with their summary of the population projection by regions/province for 1970–2000.

Using the geometric method and based on the most recent census counts, the Disease Intelligence Center prepares official estimates of our population and make releases in the annual Philippine Health Statistics, City Health Office

and Provincial Health Office.

(Planning Service, Minsitry of Health)

Sources of Medical and Health Statistics in Singapore

I. POPULATION & VITAL STATISTICS

1. Background Information

The main sources of information on population and vital statistics of Singapore are from censuses and compulsory vital registration of births and deaths.

Singapore conducted its first population census in 1871 and subsequent censuses at ten-year intervals till the outbreak of World War II. In the pre-war censuses, Singapore was included as part of the Straits Settlements and later of Malaya. Separate censuses for Singapore were carried out in 1947, 1957, 1970 and 1980. Mid-year population estimates are made for the intercensal years.

Under the Registration of Births and Deaths Act, all occurrences of births and deaths within Singapore are required to be reported within stipulated periods. The registration system has been operative for many years and records of vital statistics are virtually complete.

2. Purpose

The main purpose of conducting censuses is to obtain updated information on the population situation in the country. In the case of vital registration, besides the legal requirements, the aim is to collect detailed information on births and deaths including the underlying causes of mortality. Such data are essential for statistical analysis of changes in the population and studies of mortality trends. Census information is particularly used for planning and for evaluating programmes such as housing, education, health, transport and other social amenities, as well as for research and analysis by the Government, private corporations and individuals.

3. Coverage

The whole population of Singapore.

4. Contents

In the 1980 Census of Population, the detailed information collected on the population could be classified under the following broad categories.

- (i) Demographic characteristics
- (ii) Literacy and educational qualifications
- (iii) Economic characteristics and employment
- (iv) Geographic distribution
- (v) Houses and households
- (vi) Income and mode of transport
- (vii) Language and dialects spoken at home
- and (viii) Religion and fertility.

Statistics and health indicators derived from the vital registration system include:

- (a) Births
 - (i) Number and rate
 - (ii) Number and percentage distribution by birth attendant
 - (iii) Number and rate by age of mother and ethnicity
 - (iv) Number by occupation of father and birth order
 - (v) Number by birth weight and gestation period
 - (vi) Crude birth rate
 - (vii) Age specific fertility rate
 - (viii) Total fertility rate
 - (ix) General fertility rate
- and (x) Gross reproduction rate.
- (b) Deaths
 - (i) All deaths, number and rate by age, sex, ethnic group, medical attendance and cause
 - (ii) Infant deaths, number and rate by sex, ethnic group and cause
 - (iii) Neonatal deaths, number and rate by sex, ethnic group and cause
 - (iv) Perinatal deaths, number and rate
 - (v) Still births, number and rate
 - (vi) Maternal deaths, number and rate
 - (vii) Crude death rate

- (viii) Causes of deaths by age and sex (coding based on ICD9)
- and (ix) Standardized mortality ratio.

5. Data Collection Procedure

In the 1980 Population Census, the required particulars of all persons in Singapore were recorded at their place of residence on the designated Census Day by field enumerators despatched to the different Census Districts. All census houses were numbered, households identified and listed, and particulars of persons recorded. Households were revisited to confirm or update particulars of members to refer to Census Day. The whole process of enumeration and data collection was carried out under the supervision of the Department of Statistics, Ministry of Trade and Industry.

Vital statistics on births and deaths are processed from special Preliminary Report Forms completed by the various vital registration centres. Processing of the statistical information is undertaken by the Department of Statistics on behalf of the Registry of Births and Deaths which is under the purview of the Ministry of Home Affairs.

6. Tabulation and Publication

The Department of Statistics is responsible for the tabulation and release of census results and also for the periodic publication of population and vital statistics. The data are published in the Monthly Demographic Bulletin, Monthly Digest of Statistics and the Yearbook of Statistics, Singapore. Detailed information on births and deaths are published annually in the Annual Report of the Registration of Births, Deaths and Marriages.

II. HEALTH SERVICE UTILIZATION STATISTICS

1. Background Information

Prior to 1976, the responsibility of data collection and the determination of the type of data to be collected rest with each government health institution depending on their specific administrative needs and requirements. However, with increasing awareness and recognition of the importance of developing an effective health management information system (HMIS) for both administrative and planning purposes, the overall system of data collection was revamped in 1976. The task of developing and maintaining the HMIS was put under the charge of the Research and Evaluation Section of the Ministry of Health. The HMIS has undergone a number of revisions since 1976 in tandem with the changing needs and requirements of health administrators and planners.

In 1978, the statistical system was extended to cover the activities of the private hospitals. However, information on activities of private clinics are not monitored routinely and are obtained thus far from ad hoc surveys.

2. Purpose

One of the prime objectives is to monitor and make short-term appraisal of the performance of the various service departments within the Ministry of Health and the utilization of private hospitals. The statistical information are also utilized in conjunction with other data for purposes of resource allocation, projection of future demand for health facilities and manpower as well as overall planning for health services in the country.

3. Coverage

Statistics collected cover activities of all government hospitals, ancillary services and primary health care clinics. Coverage of activities of private medical establishments are currently confined to private hospitals.

4. Contents

The range and type of data collected are fairly wide and include amongst other things information on:

- (i) Use of inpatient facilities eg. hospital admissions, bed-days, bed occupancy, duration of stay and discharges by speciality
- (ii) Surgical operations and anaesthetic procedures
- (iii) Outpatient attendances at hospital specialist clinics, A&E departments, primary health care and dental clinics
- (iv) Radiological and laboratory investigations and extent of use of services of various other para-clinical and ancillary departments eq. Radiotherapy, Physiotherapy etc.
- (v) Use of drugs
- (vi) Home nursing service
- (vii) Health screening and immunization
- (viii) Government health manpower and workload indicators
- and (ix) Government health expenditure, revenue and costing.

5. Data Collection Procedure

The statistical returns are submitted on prescribed forms on a monthly basis by the various service centres to the Research and Evaluation Section of the Ministry of Health for processing.

6. Tabultion and Publication

The data are collated and published quarterly and annually in the form of statistical bulletins and other special reports.

III. HEALTH MANPOWER STATISTICS

1. Background Information

Although statistics on all grades of health personnel are available from administrative records, particular emphasis is focused on certain key personnel viz, doctors, dentists, pharmacists, nurses and midwives who are also incidentally required to be registered under the relevant Acts, namely, the Medical Registration Act, the Registration of Dentists Act, the Registration of Pharmacists Act, the Nurses Registration Act and the Midwives Act.

Special manpower registers for these groups of personnel are kept and updated periodically. To facilitate records maintenance and faster retrieval of statistical information, these registers have been computerised.

2. Purpose

The purpose of these registers is to provide up-to-date data on the stock of the key health personnel in the country both for administrative use and for manpower planning.

3. Coverage

All registered doctors, dentists, pharmacists, nurses and midwives in Singapore.

4. Contents

Personnel particulars maintained in the registers contain not only vital information such as sex, age, race, but also details on qualifications, year of qualification and the university/institution which conferred the degree and specialist qualification etc. Information on the type, duration and place of practice are also captured.

5. Data Collection Procedure

The information is obtained from the registration forms completed by the doctors, dentists, pharmacists, nurses and midwives. The manpower registers are updated annually.

6. Tabulation and Publication

The Research and Evaluation Section, Ministry of Health is responsible for the tabulation and analysis of the statistical data. Reports on these key health personnel are published annually.

IV. PATIENT DISEASE STATISTICS

1. Background Information

Routine collection of morbidity statistics on patients admitted into government hospitals started in 1979 as part of an overall objective of augmenting the existing data on specific notificable diseases and other data on specific diseases from special disease registers such as that of tuberculosis, leprosy, venereal disease and cancer.

In 1974, the scope of morbidity data was extended to the outpatient level and since then records of cases seen at all government outpatient dispensaries, maternal and child health and school health clinics have been compiled according to disease conditions.

In 1978, a new statistical series was introduced by the Ministry of Health requiring private hospitals to provide, on prescribed forms, information pertaining to each patient admitted into their hospitals.

To supplement the morbidity data collected on inpatients, special censuses and studies have also been conducted on long staying patients particularly those in the mental institutions. Mainly because the available morbidity data collected are inadvertently biased towards certain groups of people who seek medical attention from hospitals and clinics, ad hoc morbidity and other health examination surveys have also been carried from time to obtain additional information which would provide a better understanding of the disease problems prevailing in the community.

2. Purpose

The main purpose of collecting the data is to study the morbidity patterns of patients and to analyse the epidemiological profile of patients with different disease conditions. This is to help in the planning and proper design of government and community health programmes.

3. Coverage

All patients admitted into government and private hospitals and patients attending government primary health care clinics.

4. Contents

Data on hospitalised patients include:

(i) Socio-economic profile eg. age, sex, ethnicity, nationality, occupation

- (ii) Patient classification by speciality
- (iii) Source of referral
- (iv) Diagnoses (coding based on ICD9)
- (v) Surgical operation

and (vi) Underlying cause of death (in the case of death of patient).

For outpatients, the principal morbid condition for which the patient is treated is recorded.

5. Data Collection Procedure

In the case of government hospital inpatients, the data are extracted from the admission forms and discharge summaries while private hospitals submit their data on special returns prescribed by the Ministry of Health. Morbidity data on outpatients are compiled from daily tally sheets completed by doctors attached to the government primary health care clinics.

6. Tabulation and Publication

The Research and Evaluation Section, Ministry of Health is responsible for co-ordinating, editing and coding the returns. The inpatient returns of both government and private hospitals are processed by computer. The statistics are published annually in three separate reports.

V. STATISTICS ON NOTIFIABLE DISEASES

1. Background Information

Statistics from notification of specific infectious diseases eg. smallpox, chicken pox, cholera, enteric fever, typhus, dengue haemorraghic fever, malaria, encephalitis, hepatitis, tuberculosis, venereal disease and leprosy are collected routinely.

In 1973, a Joint Co-ordination Committee on Epidemic Diseases was set up. The main objective of the Committee is to co-ordinate the work and responsibilities of the Ministry of Health and the Ministry of the Environment on diseases of public health importance, specifically, the notifiable diseases and other diseases which may be considered of sufficient importance to require co-ordinating action and liaison between the two Ministries.

Statistics on diseases of key interest are monitored and reviewed by this Committee.

2. Purpose

To monitor and control the epidemiological situation of the country with the primary aim of early detection of outbreaks of infectious diseases so that control measures could be instituted promptly.

3. Coverage

All persons reported to have contacted any of the notifiable diseases.

4. Contents

All reported cases of notifiable infectious diseases by type including information on profile of infected persons and geographical distribution of occurrence of these diseases.

5. Data Collection Procedure

Except for tuberculosis, venereal diseases and leprosy for which notifications are made to special registries in the Ministry of Health, notifications of the other infectious diseases are received by the Quarantine and Epidemiology Department of the Ministry of the Environment. Under the existing regulations, notifications of the specific notifiable diseases are compulsory by all providers of health and medical service in the country.

6. Tabulation and Publication

Based on information from notifications of specific notifiable diseases, the Committee on Epidemic Diseases publishes a "Monthly Infectious Diseases Bulletin" and the "Epidemiological News Bulletin".

VI. STATISTICS ON PREVENTIVE HEALTH CARE SERVICES

a. IMMUNIZATION

1. Background Information

Immunization of pre-school children is the responsibility of the MCHS with follow-up home visits by Staff Nurses of MCHS and Public Health Inspectors of the Ministry of the Environment to cover missed cases or defaulters of the programme.

The SHS is responsible for the immunization of school children at regular intervals and the Ministry of Defence for national servicemen.

Immunization against smallpox, cholera and yellow fever is provided by the Port Health Authority to any mem-

ber of the public. Private medical practitioners also provide immunizations.

Since the early 1960's, all childhood immunizations are notified to the Central Immunization Registry and statistics pertaining to immunizations administered have been collected and compiled.

2. Purpose

To help determine immunization coverage in the country and to monitor immunization programme activities.

3. Coverage

All pre-school and school children in Singapore.

4. Contents

Data collected include:

- (i) Number of immunizations administered
- (ii) Number of children immunized by age
- (iii) Type of immunization
- (iv) Immunization coverage rate.

5. Data Collection Procedure

Data are collected from the various M&CH Clinics and from vaccination records kept by SHS and private practitioners as well as from the compulsory notifications of diptheria immunization carried out in pre-school children received by the Central Immunization Registry.

6. Tabulation and Publication

Statistics on the immunization programme is tabulated and published in the Report of the Childhood Immunization Programme in Singapore by the Quarantine & Epidemiology Department of the Ministry of the Environment. Information is also available in the Maternal & Child Health Services Annual Report and School Health Services Annual Report.

b. CONTRACEPTION, STERILIZATION AND LEGALISED ABORTION

1. Background Information

The Singapore Family Planning and Population Board was established in 1966 by an Act of Parliament as a Statutory Board under the portfolio of the Minister for Health. When the National Programme began in 1966, the main objective was to provide good and easily accessible clinical services where all couples desirous of practising

family planning could obtain professional advice and contraceptive supplies.

In 1972, all existing programme activities of the Board were intensified and many new measures were initiated. Both the Abortion Act (1969) and the Voluntary Sterilization Act (1969) legalising abortion and sterilization were repealed at the end of 1974 and replaced by the Abortion Act, 1974 and Sterilization Act, 1974 which further liberaised abortion and sterilization in the Republic.

The collection of statistics on contraceptive methods used started in 1966/67 while statistics on sterilizations and legalised abortions were collected as from 1970.

2. Purpose

The purpose of collecting the data is to monitor the progress of the family planning programme activities and to provide the necessary information for policy formulation and programme planning.

3. Coverage

All persons who seek advice on family planning at the government clinics and those who have undergone sterilization or abortion.

4. Contents

The statistical data collected include:

- (i) Attendances by government clinic and contraceptive methods according to new cases/revisit.
- (ii) Profile of family planning new acceptors.
- (iii) Number of sterilizations and profile of persons who have undergone sterilization.
- (iv) Number of legalised abortions performed and profile of persons who have had their pregnancies terminated.

5. Data Collection Procedure

Monthly returns on family planning acceptors from government clinics and sterilization and abortion returns from all clinics/institutions are submitted to the Research and Evaluation Unit of the Singapore Family Planning and Population Board for data processing.

6. Tabulation and Publication

The Research and Evaluation Unit of the Board is responsible for statistical tabulation and data analyses. The information is published annually.

Health Statistics in Thailand

I. OUTLINE

It is well accepted that in the development of any country, the quality of life of the population is one of the most important factors which has to be arrived at . Among those acquired conditions, health status is considered the main element to come prior. The Ministry of Publice Health has fully been involved in taking care of such responsibility by rendering health care to the population as a whole.

In Thailand, the administrative area has been classified into various levels: central, provincial, district, sub-district (*tambon*), and village. The health care delivery systems are provided along with such organizational structure.

In order to know the relevant status on health of the population, the system for collecting vital and health statistics has been established. Started with vital statistics, it was about 70 years ago that the registration of vital events became compulsory by laws in terms of births, deaths, and marriage. The responsible organization was the Ministry of Interior to which at that time the Health Department was attached. After that the Health Department was promoted and became the Ministry of Public Health, but the vital registration has been still under the responsibility of the Ministry of Interior. When it came to the time for health development, the requirement for information concerning the health situation of population was not only confined to the vital statistics but also to other fields of health.

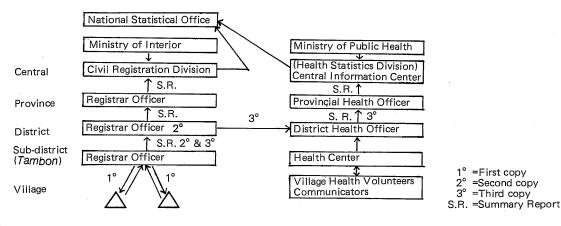
Within the context of health situation of the population, a variety of health information other that health and vital statistics are required so as to identify health problems. Health policies have been planned in accordance with the health problems of the people and subjected to the improvement of the unsatisfied health situations. Health development plans are formulated to serve such policies and are included in the 5-year national economic

and social development plans. Particularly in the 4th 5-Year Plan, Country Health Programming became the strategy for the health planning formulation in Thailand. With the concept of problem-oriented planning, the health problems are duly identified to prop up the health policy in planning to solve them. Then the requirement of health information including vital and health statistics have become greater and greater, and the effective approaches to obtain more reliable and timely information have been implemented in the essence of high technology. The validity and accuracy of the statistics and information have gradually come up to the satisfactory circumstances, but the timeliness is still the major problem. So it is expected that with the modern technology of computerized data processing system, it will bring in more satisfaction to the users.

II. VITAL STATISTICS

1. Current System

The Vital Registration System of Thailand is at present under the jurisdiction of the Ministry of Interior. The function of this system is compulsory nationwide which is very essential as a source of vital statistics. The raw data are collected through the channel of local registrar office from the most peripheral level and are accumulated at the above level until the data reach the central level. This system can be illustrated as follows:



2. Channel of Data Collection

If there happens a vital event, birth or death, the owner of the household in the village must report to the registrar officer at the sub-district leven for registration. The registrar officer will produce 3 copies of allied certificate. The first copy will be handed to the informant and the second and the third copies will be transferred to the district registrar officer with a summary report on a monthly basis.

The district registrar officer will collect reports and certificates from all sub-districts within its district and prepare the summary report to be presented to the provincial level. The 2° copy of the certificate will be kept as the legal document at the district office while the 3° copy will be passed to the district health officer. At this junction, the vital registration system and the health system is coordinated.

The provincial registrar officer will collect the monthly report on vital events presented by all district registrar offices and prepare the summary report to be submitted to the central level which is under the responsibility of the Civil Registration Division, Department of Local Administration, Ministry of Interior. The reports are made on a monthly basis and at the end of each year the Civil Registration Division will publish the total number of population, birth, death and other movements.

When the 3° copies of vital certificate are passed from the District Registrar Officer to the District Health Officer, a summary report on vital events will be prepared and submitted to the Provincial Health Officer together with the actual 3° copies. In this connection, at provincial level, the summation of total number of births and deaths is computed and sent to the central level of the Ministry of Health in terms of the summary report.

The Central Information Center or the Health Statistics Division of the Ministry of Public Health collect and compile the toatl number of vital events from the summary reports and prepare the annual report for the Ministry after having analysed and performed various types of statistical presentation.

The National Statistical Office will perform function of publishing all national statistical figures for the whole country. The vital statistics from the Ministry of Public Health is also sent to this office on an annual basis.

III. HEALTH STATISTICS

Other health statistics can be obtained within the system of the Ministry of Public Health. In the above diagramme, the flow of information can be illustrated from the grass-root of the health delivery system. The information can be classified into Health Status, Health Activities, and Health Resources.

1. Health Status

1.1 Morbidity from the outpatient and inpatient in hospitals and health institutions. The disease categoriezation

is based on the A-list and the 9th edition of the International Classification of Diseases provided by WHO.

- 1.2. Epidemiological data obtained from the prompt reports on surveillance scheme which provide the prompt information at the occurrence of disease or unfavorable condition of the population concerning with ill-health.
- 1.3. Natality, mortality and cause of death statistics from vital registration system.
- 1.4. Data Collection Procedure

Morbidity statistics for in-patients and out-patients are submitted on monthly basis from public hospitals and health service centres compiled for the whole province and separately for municipal areas in each province. Epidemiological data are summitted in prescribed forms on daily basis for some specified communicable diseases and on a weekly basis for other communicable diseases from public and private health service centres.

1.5. Tabulation and Publication

Natality, morbidity and mortality data are published in *Public Health Statistics*. Epidemiological data are published yearly in *Epidemiological Surveillance Report* and in other special publications weekly, monthly and guarterly.

2. Health Activities

2.1. This kind of health information can be obtained from each level of health delivery system in accordance with the progress of the activities performed by the health personnel. The health indicators have been established for each programme or project and the recording and reporting systems are required to facilitate the monitoring and evaluation of the health projects.

A variety of record and report formats were designed and put into practice according to the requirements of the responsible health units. The publication of information is undertaken on an annual basis.

For the time being, there is still no responsible persons to do this job in specific, so the health service personnel have to perform this task consuming much of their time until the complaints are made due to insufficient time for rendering services.

2.2. Coverage

Activities on health projects or programs undertaken by public health personnel at all levels.

2.3. Contents of report

- 1. Health care delivery
- 2. Mental health
- 3. Referral system
- 4. Immunization
- 5. Venereal disease control
- 6. Leprosy control
- 7. Tuberculosis control
- 8. Worm and parasite control
- 9. Malaria control
- 10. Veterinary public health
- 11. Diarrhoea control
- 12. Maternal and child health
- 13. School health
- 14. Nutrition
- 15. Dental health
- 16. Environmental health
- 17. Health education
- 18. Health supervision
- 19. Epidemiological surveillance
- 20. Primary health care
- 21. Food sanitation
- 22. Planning management information

2.4. Data Collection Procedure

The statistical data are filled in the prescribed health activities report forms on a monthly basis by the various public service centres and are sent to the Provincial Health Information Centre. The data are then compiled for the whole province and separately for municipal areas and are sent to the Central Health Information Centre on a quarterly and 6-month basis.

2.5. Tabulation and Publication

The data are classified according to provinces, regions and the whole country and are published annually in *Public Health Statistics* and other special reports.

3. Health Resources

3.1. This kind of information is also essential for the administration in the health field. Without knowing the health resources, health activities could not run smoothly and efficiently. Health resources comprised health manpower, health institutions, hospitals and health centres, finance, budget supplies, and equipment. These kinds of information are collected on an annual basis and the Central Information Centre of the Ministry of Public Health has been assigned to perform this job.

3.2. Coverage

The data collected cover health resources of all government, state enterprise and private hospitals and health service units.

- 3.3. Contents
 - 1. Number of health service units classified by number of beds, specialities and type of organization
 - 2. Number of health personnel
 - 3. Buildings and construction
 - 4. Equipment
 - 5. Budget and finance
- 3.4. Data Collection Procedures

The data are collected in the prescribed health resources report from on a yearly basis by the various health service centres to the Central Health Information Centre except for Bangkok. The questionnaire is used for health institutions in Bangkok.

3.5. Tabulation and Publication

The data are collected and published annually in summary in *Public Health Statistics* and in more details in *Report on Health Resources*.

(Health Statistics Division, Minsistry of Public Health)

Health Resources Statistics in Japan

I. SURVEY ON MEDICAL CARE INSTITUTIONS

1. History

Before the formal establishment of the Survey on Medical Care Institutions, the reporting on the number of facilities, their geographical location and type of services provided had been included in the Statistical Report on Home Affairs.

After the first survey on medical care institutions in 1948, some improvements in survey method and data collection procedure were made and they resulted in the establishment of the Survey on Medical Care Institutions, which has been conducted on regular basis since 1953.

In 1973, a major modification for structural arrangement and procedure was made. It divided the survey into two portions, the Main Detailed Survey and the Brief Monthly Survey.

2. Purpose

The purpose of the survey is to provide the data on the geographical distribution, characteristics, manpower and equipments of mdeical care institutions.

3. Coverage

The Main Detailed Survey is conducted as of December 31 every three years and the Brief Monthly Survey is done as of the end of every month.

4. Contents of Questionnaire

A. Main Detailed Survey

- a. Name of medical care institution
- b. Address
- c. Type of ownership
- d. Number of beds, by kind
- e. Equipments installed
- f. Speciality
- g. Number of personnel, by kind

B.Brief Monthly Survey

- a. Name of medical care institution
- b. Address
- c. Type of ownership
- d. Type of reporting (establishment, abolished or suspended)
- e. Number of beds, by kind
- f. Speciality

5. Data Collection Procedure

The questionnaire prepared by a responsible person in the institution is submitted to the Health Center that administers the area where the medical care institution is located. The collected questionnaires are sent to the Statistics and Information Department through the prefectural and designated city governments.

6. Tabulation and Publication

The Statistics and Information Department takes charge of the tabulation and the results are released through publications and other media.

II. HOSPITAL REPORT

1. History

The original of the Report was started as the Weekly Hospital Report in 1945 and in 1948 it was modified to the monthly report, togather with the extention of the coverage of the tuberculosis and leprosy hospitals.

The Hospital Report was initiated in November 1948 with the enactment of Medical Service Law.

The number of newborns and the number of employees have been added to the items of the report since 1968 and 1973 subsequently.

2. Purpose

The purpose of the Report is to provide the data on the geographical distribution, present situation and utilization of the hospitals.

3. Coverage

All hospitals in japan.

4. Contents of Reporting Forms

A. Patient schedule (monthly)

Number of inpatients, outpatients, newborns, etc.

B. Employee schedule (annual)

Number of physicians, pharmacists, nursed, etc.

5. Data Collection Procedure

The reporting forms are filled out by the superintendent of the hospitals and sent to the Ministry of Health and Welfare through the Health Centers and prefectural governments.

6. Tabulation and Publication

The Statistics and Information Department takes charge of the tabulation and releases through publications and other media.

III. SURVEY ON PHYSICIANS, DENTISTS, AND PHARAMACISTS

1. History

Originally, the Survey on Physicians, Dentists, and Pharmacists had been included in the Statistical Report on Public Health Services.

In 1948 with the enactment of the Medical Practitioners Law and Dentists Law and in 1954 with the amendment

of the Pharmaceutical Affairs Law, the reporting forms on physicians, dentists, and pharmacists were separated from the Stantistical Report and composed the new statistics, the Survey on Physicians, Dentists and Pharmacists in 1954.

2. Purpose

The survey has the purpose to collect the information on the number and geographical distribution of these health personnel.

3. Coverage

The survey covers all physicians, dentists, and pharmacists registered in Japan.

4. Date

As of December 31, annually. (Since 1982 every two yeares)

5. Contents of Reporting Forms

- A. Name
- B. Sex
- C. Date of birth
- D. Date of registration
- E. Registration number
- F. Type of license
- G. Speciality
- H. Employment status

6. Data Collection Procedure

The reporting form filled out by each medical profession is submitted to a Health Center. At the Health Center, editing work is done and the reporting form is sent to the Statistics and Information Department via the prefectural government where the reporting form is duplicated for local use.

7. Tabulation and Publication

The Statistics and Information Department takes charge of the tabulation and the results are released through publications.

IV. STATISTICAL REPORT ON PUBLIC HEALTH SERVICES

1. History

The Statistical Report on Home Affairs, the original of the Statistical Report on Public Health Services, was initiated in 1886.

As the Ministry of Health and Welfare was established in 1938, it was newly enacted as the Statistical Report on Public Health Services.

The jurisdiction of the Report was transferred from the General Affairs Division of the Minister's Secretariat to the Statistics and Information Department in 1949 and thereafter there have been many changes on reporting forms to meet the administrative demands.

2. Purpose

The purpose of the Report is to collect the data on the present situation of the health administrative activities in the prefectural and designated city governments.

3. Coverage (for Reporting Forms Relating to Health Resources)

The Report covers all public health nurses, midwives, nurses, dental hygienists and dental technicians working in japan.

4. Data

As of December 31 (reporting forms on health manpower)

5. Contents of Reporting Form

- A. Type of health occupations
- B. Age and sex
- C. Place of work

6. Data Collection Procedure

The five active health personnel are required to report their characteristics annually to the prefectural and designated city governments, where the reporting forms are filled out and sent to the Statistics and Information Department.

7. Tabulation and Publication

The Statistics and Information Department takes charge of the whole tabulation and the results are released through publications.

V. SURVEY ON SOCIAL WELFARE INSTITUTIONS

1. History

The Statistical Report on Social Welfare Services, the original of the Survey on Social Welfare Institutions, had been carried out until 1955.

In 1956 the Survey on Social Welfare Institutions was initiated in order to collect the data on the manpower and functions of the institution directly from each institution.

2. Purpose

The purpose of the Survey is to provide the data on the geographical distribution and functions of the Social Welfare Institutions.

3. Coverage

The Survey covers all social welfare institutions in Japan.

4. Date

As of October 1, annually.

5. Contents of Questionnaire

- A. Type of institution
- R Name of institution
- C. Address
- D. Number of staffs
- E. Capacity

6. Data Collection Procedure

The Ministry of Health and Welfare plans the survey and the Welfare Offices conduct it under the supervision of

the prefectural and designated city governments.

The Welfare Offices deliver the questionnairs, which are filled out by the superintendent of the institution and collect them to send to the Statistics and Information Department through the prefectural and designated city governments.

7. Tabulation and Publication

The Statistics and Information Department takes charge of the tabulation and the results are released through publications and other media.

VIII. POPULATION CENSUS

1. History

The population censuses in Japan have been taken almost every five years since 1920, the 1980 Population Census being the thirteenth one.

Regular quinquennial censuses included the large-scale censuses and the simplified censuses. The censuses that were taken every ten years starting 1920 were the large-scale censuses, while the censuses that were taken in the fifth year after the large-scale decennial censuses were simplified censuses. The main difference between the largescale census and the simplified census during the prewar period was the number of questions asked in the census. In a simplified census, questions were limited to basic characteristics of population, i.e., name, sex, age, marital status, etc., while a large-scale census covered questions on the economic characteristics such as occupation and industry in addition to the basic characteristics of population.

After World War II, the scale of census-taking has generally been amplified so as to satisfy the increased demands from the variety of users of the census results. The 1955, 1965 and 1975 censuses, which were taken as the simplified census, covered almost equal number of items as the prewar large-scale census. The 1980 Population Census was taken as a large-scale one and the number of questions was increased than before.

2. Purpose

The purpose of this census is to provide the data on the present situation of population in Japan.

3. Coverage

The 1980 Population Census covered the whole population in Japan.

This census used the so-called de jure population concept in enumerating the people. It means, a person was enumerated at the place where he or she usually lived and was counted as the population of that area.

4. Date

The 1980 Population Census was taken as of 0:00 A.M. of October 1, 1980. This date is the same as past regular censuses since 1920.

5. Contents of Questionnaire

A. For household member

- a. Name
- b. Sex
- c. Year and month of birth
- d. Relationship to the head of the household
- e. Marital status
- f. Nationality
- g. Time moved into the present house
- h. Previous address
- i. Education
- i. Type of activity
- k. Name and kind of business of employer or a self-employed person's business (industry)
- I. Kind of work (occupation)
- m. Employment status
- n. Place of work or location of school

B. For household

- a. Type of household
- b. Number of household members
- c. Source of household income
- d. Type of tenure of dwelling
- e. Number of dwelling rooms
- f. Area of floor space of dwelling rooms
- g. Type of building and the number of stories

6. Data Collection Procedure

The field enumeration of the 1980 Population Census was conducted, within their respective jurisdictions, by the mayors or the heads of city, ward and village, under the supervision of the governments of prefectures. The whole procedure was planned and administered by the Statistics Bureau, the Prime Minister's Office.

7. Tabulation and Publication

The Statistics Bureau, the Prime Minister's Office takes charge of the whole tabulation of the census results and the results are released through publications and other media.

IX. VITAL STATISTICS

1. History

The modern Meiji Government was established in Japan after the Meiji Restoration of 1868, and the administrative organization was rearranged and modernized throughout the country. Following this, by 1872, the family registration system was established and came to function as a permanent source of vital statistics in Japan since then. The jurisdiction of vital statistics system has been transferred since 1947 to the Ministry of Health and Welfare, in view of making full use of the collected data mainly for public health activities.

2. Method of Collecting Data

The characteristics of the present vital statistics system of Japan can be represented mostly by the fact that it is based on the Family Registration System under which the legal status of an individual and its changes are recorded. Because of its legal nature, the Family Registration System is at present under the jurisdiction of the Ministry of Justice.

According to provisions of the Family Registration Law, vital events of birth, death, marriage and divorce have to be declared to the head of local administrative office. The event of stillbirth (foetal death) also has to be declared under the provisions of Regulations regarding Reporting of Stillbirth.

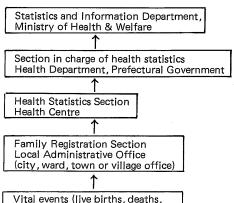
The declaration of birth has to be made with the birth certificate of the physician or the midwife who attended the birth. It should be declared by either father, mother, the person who lives with them or anyone who attended the birth, within 14 days after the birth.

The death has to be declared with the doctor's death certificate or autopsy on the body. The death declaration should be made by the relative or anyone of others who lived with the deceased, the landowner, or the caretaker of the land, within 7 days after the death or the time when the death was known.

The declaration of stillbirth has to be made as a rule with the doctor's or midwife's certificate of stillbirth or dead foetus, and is to be declared by father, mother, the person who lives with them or anyone who attended the stillbirth within 7 days after the stillbirth.

These channels of collecting vital statistics data can be illustrated in the chart as follows:





Supervises and guides the handling of vital statistics.
Computes, tabulates and publishes vital statistics reports monthly and annually.

Transmits the schedules to the Ministry of Health and Welfare to reach before the 5th of the following month.

Examines the entries of schedules.

Transmits the schedules to the Prefectural Government monthly to reach before the 25th of every month.

Examines the entries of schedules.

Forwards the schedules to the Health Centres as soon as possible. Prepares vital statistics schedules. Accepts declarations after scrutiny.

Declarations

3. Publications of Vital Statistics

stillbirths, marriages and divorces)

The results of vital statistics are published by the Statistics and Information Department, Ministry of Health and Welfare on a periodical basis in the following three kinds of publications:

(1) Monthly Prompt Report of Vital Statistics

This Monthly Prompt Report covers total figures of live births, deaths, stillbirths, marriages and divorces by prefecture. It should be noted that the figures included in this report represent merely the number of schedules for each type of vital events forwarded from Prefectural Government and received by the Ministry of Health and Welfare.

(2) Monthly Report of Vital Statistics

This Monthly Report contains the figures derived from the processed data. Naturally this report covers a wider variety of more detailed tables of results.

(3) Annual Report of Vital Statistics

The Annual Report is the most fundamental one among periodical publications of vital statistics. The Annual Report includes a wide variety of detailed tables and represents final tabulations of vital statistics in Japan. The Annual Report is normally published in about one year after the year of occurrence.

(Statistics and Information Department, Ministry of Health and Welfare)