

Appendices



APPENDIX 1

Site Recodes for ICD-9 and ICD-O-2 Incidence Data

Site Description	ICD-9	ICD-O-2 Site Code	ICD-O-2 Histology Code
Biliary Tract	156	C239-C249	(exc Types 9590-9989, 9140)
Breast	174	C500-C509	(exc Types 9590-9989, 9140)
Cervix Uteri	180	C530-C539	(exc Types 9590-9989, 9140)
Colon	153	C180-C209,C260	(exc Types 9590-9989, 9140)
Corpus Uteri	182	C540-C549	(exc Types 9590-9989, 9140)
Esophagus	150	C150-C159	(exc Types 9590-9989, 9140)
Liver	155	C220	(exc Types 9590-9989, 9140)
Lung and Bronchus	162	C340-C349	(exc Types 9590-9989, 9140)
Nasopharynx	147	C110-C119	(exc Types 9590-9989, 9140)
Non-Hodgkin's Lymphoma	200+202	all	(Types 9590-9595, 9670-9717)
Ovary	183.0	C569	(exc Types 9590-9989, 9140)
Pancreas	157	C250-C259	(exc Types 9590-9989, 9140)
Prostate	185	C619	(exc Types 9590-9989, 9140)
Stomach	151	C160-C169	(exc Types 9590-9989, 9140)
Rectum	154.0-154.1	C199, C209	(exc Types 9590-9989, 9140)
Thyroid	193	C739	(exc Types 9590-9989, 9140)
Urinary Bladder	188	C670-C679	(exc Types 9590-9989, 9140)

* exc = excludes

APPENDIX 2

Age Distributions of Populations covered by Asian Cancer Registries—China, Hong Kong/Singapore, Japan and Manila

Age group	China Male	China Female	HK/S Male	HK/S Female	Japan Male	Japan Female	Manila Male	Manila Female
0 - 4	335151	326618	278373	257692	401537	382686	276591	259094
5 - 9	371549	361688	296828	274672	453427	431370	243231	230591
10 - 14	237712	229450	303007	279953	514356	488962	217242	216181
15 - 19	267147	244197	315269	290228	623450	593045	214223	261757
20 - 24	377246	307129	332831	324605	544179	544062	240186	284112
25 - 29	559609	501575	411658	409171	481094	489902	219214	243363
30 - 34	707218	671500	426346	410793	454328	456785	186634	193393
35 - 39	616854	563267	363891	341239	526821	529212	146650	147942
40 - 44	395688	348407	290899	262689	623620	627751	113343	112326
45 - 49	266531	245779	190989	165434	537934	551415	77269	79116
50 - 54	266177	271132	189019	165400	489155	504036	65075	70806
55 - 59	314896	329597	177778	162833	452865	472807	45541	51054
60 - 64	265753	288433	150246	148873	373648	410004	34238	38991
65 - 69	198765	221767	111755	121491	250905	334232	20747	26315
70 - 74	130953	152744	78287	95629	172113	256213	12679	17088
75 - 79	76574	96915	49226	69481	130644	207473	7803	11559
80 +	47161	79539	31877	69682	110581	215237	5812	9511
Total	5,434,984	5,239,740	3,998,278	3,849,865	7,140,656	7,495,191	2,126,478	2,253,199

APPENDIX 3

Age Distributions of Asian Populations covered by US Cancer Registries

Age group	Chinese Male	Chinese Female	Japanese Male	Japanese Female	Filipino Male	Filipino Female
0 - 4	29140	27134	16476	15898	38173	35640
5 - 9	27730	26572	15665	15263	38904	36225
10 - 14	28029	26197	14496	14169	37812	35236
15 - 19	33082	29864	16255	16341	39207	37129
20 - 24	34846	33409	23273	21233	40191	39856
25 - 29	38876	40774	26610	26608	38769	43399
30 - 34	41070	44113	29465	29118	38825	48867
35 - 39	39915	43584	26725	27206	39095	47884
40 - 44	33863	37014	23075	24861	34220	42718
45 - 49	21167	22263	17426	19862	24658	30396
50 - 54	19010	19396	13717	18424	19443	24005
55 - 59	17263	17525	14412	24234	15074	19337
60 - 64	15529	18049	17086	25233	13924	19060
65 - 69	14362	15446	17456	20971	11911	16468
70 - 74	10085	11727	12221	13693	8783	11173
75 - 79	6811	8119	6900	7793	8476	7504
80 +	5484	8230	5735	9500	10063	5286
Total	416,262	429,416	296,993	330,407	457,528	500,183

APPENDIX 4**1970 US Standard Million Population**

Age Group	Standard Population
<5	84,416
5-9	98,204
10-14	102,304
15-19	93,845
20-24	80,561
25-29	66,320
30-34	56,249
35-39	54,656
40-44	58,958
45-49	59,622
50-54	54,643
55-59	49,077
60-64	42,403
65-69	34,406
70-74	26,789
75-79	18,871
80+	18,676
Total	1,000,000

APPENDIX 5**World Standard Million Population**

Age Group	Standard Population
<5	120,000
5-9	100,000
10-14	90,000
15-19	90,000
20-24	80,000
25-29	80,000
30-34	60,000
35-39	60,000
40-44	60,000
45-49	60,000
50-54	50,000
55-59	40,000
60-64	40,000
65-69	30,000
70-74	20,000
75-79	10,000
80+	10,000
Total	1,000,000

Rate Calculations

Mathematical definitions used in rate calculations:

Age-specific rate:

$$r_i = \left(\frac{c_i}{n_i} \right)$$

where r_i is the age-specific rate for age and/or gender group i , c_i is the count of cases for that age and/or gender group, and n_i is the count of persons at risk (i.e., the population) for that age and/or gender group; rates in all tables are presented per 100,000 population.

Confidence interval of age-specific rate:

$$\text{Lower Limit} = 100,000 \left(\frac{\left[\frac{\text{CINV}(\alpha/2, 2c_i)}{2} \right]}{n_i} \right)$$

$$\text{Upper Limit} = 100,000 \left(\frac{\left[\frac{\text{CINV}(1 - \frac{\alpha}{2}, 2c_i + 2)}{2} \right]}{n_i} \right)$$

where CINV (p,df) is the inverse chi-squared function with df degrees of freedom, and $\alpha = .05$ for a 95% confidence interval.

Age-adjusted rate:

$$A.A.R. = \sum_{i=0-4}^{85+} (w_i r_i)$$

where w_i is the proportion of that age group in the 1970 US standard population.

Confidence interval of age-adjusted rate:

$$\text{Lower Limit} = \frac{V}{2AAR} \left[\text{CINV} \left(\frac{\alpha}{2}, \frac{2(AAR)^2}{V} \right) \right]$$

$$\text{Upper Limit} = \frac{V + W_m^2}{2(AAR + W_m)} \left[\text{CINV} \left(1 - \frac{\alpha}{2}, \frac{2(AAR + W_m)^2}{V + W_m^2} \right) \right]$$

$$\text{where } V = \text{var}(AAR) = \sum \left(\frac{w_i}{n_i} \right)^2 c_i \text{ and } W_m = \text{MAX}(w_i)$$

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United States Data

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