

Indicators of data quality

Introduction

All the datasets published in the Results section of the IICC website at <http://iicc.iarc.fr/results> have met eligibility criteria and were of high quality based on peer review by the IICC-3 Editorial Board. Because of variations in the context in which each registry operates, cancer registration techniques, available data sources, and interpretation of international standards, there are remaining differences in data completeness and quality, which may influence the observed incidence rates.

To help readers understand the data reported in the released tables, selected quality indicators are tabulated for each registry. The notes below should aid in understanding the meaning of the indicators.

Target period

In the follow-up to *International Incidence of Childhood Cancer Volume II* (IICC-2), the target period started with 1990 and extended until the last available complete year for which each registry was able to supply data within a provided time window. For the registries whose datasets were included in IICC-2, the first year of incidence data in IICC-3 follows immediately after the last year of incidence data in IICC-2. However, for some IICC-2 datasets, it was not possible to supply all the required time series, or the data for part of the provided period were not of sufficient quality; for such registries, the continuity between the two volumes could not be ensured.

There was one exception to this definition of the target period, for the Jamaica Cancer Registry (Kingston and St Andrew), which had contributed to the first volume of IICC (1968-1981) and was able to provide data for all subsequent years (1982-2012) for IICC-3.

Any period length was allowed within the target period, as long as at least 3 years were covered. The length of the period ranged from 3 years to 31 years. All the registry-specific tables show the data for the entire period that is indicated next to the registry name.

In the tables showing national pools of registries, the first year of the period was defined as the earliest of the starting years and the last year as the latest of the ending years among all the constituent registries.

Total numbers of cases

A small number of registered cases does not provide a stable estimate of the incidence rate, because of large annual variations. Therefore, a minimum number of cases was required for a registry to be presented in a full incidence table. The arbitrary limit was at least 200 cases in the age range 0-14 years (N(0-14)) or at least 300 cases in the age range 0-19 years (N(0-19)).

The small datasets that were of good quality contributed to the national pools. If they included at least 150 cases in the age range 0-14 years or at least 200 cases in the age range 0-19 years, they were presented in tables showing a smaller amount of detail for each registry (see [Guide to Tables](#)).

Age range

Among the included cancer registries, 24 were paediatric, and of those, 21 provided data for the age range 0-14 years only. The quality indicators listed below relate to the entire dataset for each registry. All the general cancer registries were required to submit data for the age range 0-19 years.

Basis of diagnosis

Basis of diagnosis is a mandatory variable recorded in population-based cancer registries, and it indicates the level of evidence with which a certain neoplasm was diagnosed. Currently, diagnoses based on microscopic verification (MV) of the tumour tissues, which also includes cytological examination of blood cells, are considered to have the highest degree of validity. Diagnoses based on death-certificate-only (DCO) information do not have a sufficient degree of certainty and precision. Therefore, the proportion of MV and DCO cases in the dataset also indicates the level of validity of the resulting incidence rates.

Proportion of microscopically verified cases (MV%)

Although a large proportion of cases with MV (MV%) attests to a good validity of diagnosis, values close to 100% may indicate that the registry may be missing cases whose diagnosis might have been based on clinical examination or other laboratory tests. Some types of neoplasms can be diagnosed with certainty in the absence of MV (e.g. retinoblastoma or some central nervous system tumours), and the overall MV% would be influenced by the proportion of such cases in the dataset. As a result of the above considerations, in the table, the MV% values are highlighted as follows:

MV% **lower than 85%** or **higher than 98%**

%MV% was not provided (NP) for datasets containing less than 50 cases.

Proportion of cases ascertained from death certificate only (DCO%)

Although a registry should strive for as low a proportion of cases with DCO information (DCO%) as possible, a lack of DCO cases in a dataset may indicate that the registry is missing the cases that had died before the cancer was registered. Cases can only be registered from death certificates if the registry has access to the death certificates of all residents. For various reasons, this is not possible in many registries, and therefore the resulting rates may be underestimated because of the lack of this source of case ascertainment. In the table, the DCO% values are highlighted as follows:

DCO% **higher than 5%**

For registries with no access to death certificates, this is indicated with a hyphen: -

DCO% was not provided (NP) for the datasets containing less than 50 cases or for the pooled datasets.

Proportion of unspecified cases (NOS%)

“Unspecified” neoplasms are all those that are classified into the “unspecified” diagnostic subgroups of the International Classification of Childhood Cancer (ICCC-3) [1] and those with unspecified morphology codes (8000, 8800, 9800, etc.). The unspecified morphology codes were assigned by the registries for different reasons: the specific diagnosis was not established, the registry was not able to retrieve the pathology reports, non-MV cases were routinely coded as unspecified, or the standard coding rules were not applied. A high

proportion of unspecified neoplasms (NOS%) distorts the incidence rates in the specified diagnostic groups or subgroups. In the table, the NOS% values are highlighted as follows:

NOS% **higher than 10% and lower than 20%**

NOS% **equal to or higher than 20%**

NOS% was not provided (*NP*) for the datasets containing less than 50 cases.

Proportion of cases aged 0 years

Neoplasms occurring in the first year of life have a specific spectrum, consisting of a large proportion of embryonal or genetically conditioned tumours, and therefore all registries would be expected to have a similar proportion of cases aged 0 years within the age range 0-14 years (Age 0 in 0-14 %). However, there are large variations in this proportion among the registries, and multiple factors affect this indicator. First, age definition might not be the same in all societies, and children younger than age 1 year may be counted as 1-year-old children. Second, the dates may be imprecise or age may be rounded up. Third, diagnosis of the relevant neoplasms may be postponed to a later age, especially if appropriate diagnostics are not available. Fourth, more cases can be diagnosed at an early age (rather than at later ages) in case of intensive medical care. Although the age-standardized rates (ASR) were calculated from the age-specific rates of the 5-year age groups, the proportion of infants (children aged 0 years) in the dataset can still modify the resulting rates, especially if the population estimates for this age are imprecise. In the table, the proportion of infants in the age range 0-14 years is highlighted as follows:

Age 0 in 0-14 % **lower than 5%**

Age 0 in 0-14 % **higher than 15%**

Age 0 in 0-14 % was not provided (*NP*) for the datasets containing less than 50 cases.

Proportion of non-malignant neoplasms

Non-malignant tumours occurring in the central nervous system are included in the International Classification of Childhood Cancer (ICCC-3) and also in IICC-3. Registration of these tumours depends on the eligibility criteria, which differ between registries. In addition, diagnostic intensity would also influence the proportion of non-malignant tumours. In the table below, the percentage of non-malignant tumours (Non-malignant %) is related to the total number of cases classified in group III (CNS and miscellaneous intracranial and intraspinal neoplasms) and subgroup Xa (Intracranial and intraspinal germ cell tumours). Registration of non-malignant tumours results in higher rates of the above-mentioned diagnostic groups and higher overall incidence rates.

Pilocytic astrocytoma (M-9421) has traditionally been reported as malignant (/3) until the implementation of ICD-O-3 when its behavior code was changed to uncertain or borderline (/1). Pilocytic astrocytoma could be analyzed as borderline for compatibility with ICD-O-3, invasive for comparability with earlier published data such as the International Incidence of Childhood Cancer Vol II (IICC-2), or as reported by each registry. Most registries submitted all pilocytic astrocytomas as /1, some registries reported it as /3 until implementation of ICD-O-3 and then as /1, and some registries such as the U.S. continued to report it as /3 for comparability with older data. The registry-specific tables provide the number of non-malignant CNS cases based on how the

registry reported it to IARC. Therefore, the number of non-malignant cases may not be comparable across registries or with earlier published data such as IICC-2.

In the table, the proportion of non-malignant cases is highlighted as follows:

Non-malignant % **higher than 0% and lower than 20%**

Non-malignant % **higher than 40%**

Non-malignant % was not provided (*NP*) for the datasets containing less than 50 cases.

A value of 0.0 for Non-malignant% indicates that non-malignant tumours were effectively not collected by the registry.

Age-standardized rates

Across the registries and ethnicities, the age-standardized rates (ASR) varied from 40 per million to 225 per million in the age range 0-14 years (ASR(0-14)) and from 60 per million to 234 per million in the age range 0-19 years (ASR(0-19)). Some of this variation could have resulted from small numbers of cases, but differences in diagnostic intensity, registration procedures, or true risks of cancer might have influenced the observed ASR. In the table below the rates below or above certain thresholds are highlighted, as follows:

ASR(0-14) **lower than 60** per million or **higher than 180** per million

ASR(0-19) **lower than 80** per million or **higher than 200** per million

For paediatric datasets that only cover the age range 0-14 years, ASR(0-19) is indicated with a hyphen: -

ASR was not provided (*NP*) for the datasets containing less than 50 cases.

References

1 Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, third edition. *Cancer*. 2005;**103**(7):1457-67.

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Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
AFRICA												
ALGERIA, 5 registries	1996-2014	19		1658	2640	91.5	NP	20.1	3.3	4.8	96.3	107.1
ALGERIA, Algiers	2008-2012	5		575	824	90.0	2.5	17.1	4.0	6.8	171.8	172.9
ALGERIA, Annaba	2000-2010	11		185	271	90.8	0.0	10.7	2.7	0.0	112.4	117.0
ALGERIA, Batna	2008-2012	5		127	211	85.3	0.0	15.2	7.9	0.0	76.5	87.0
ALGERIA, Sétif	1996-2014	19		552	992	96.9	0.6	18.8	0.2	0.0	66.3	81.8
ALGERIA, Tlemcen	2006-2014	9		219	342	83.9	5.3	41.5	6.8	11.4	94.4	107.7
BOTSWANA	1999-2007	9		312	450	88.4	6.0	7.8	1.9	0.0	54.5	59.7
CAMEROON, Yaoundé	2004-2006	3		298	373	70.5	0.5	10.5	1.7	0.0	125.0	124.5
EGYPT, Gharbiah	1999-2010	12		1812	2597	89.6	6.4	10.9	5.8	4.0	122.5	127.2
FRANCE, Réunion	1990-2011	22		459	657	92.8	2.4	4.9	6.8	0.0	106.2	113.3
KENYA, 2 registries	2000-2012	13		1165	1620	84.6	NP	18.7	2.1	1.1	108.5	118.7
KENYA, Eldoret	2000-2011	12		514	721	85.3	7.5	19.1	0.8	4.5	124.9	140.7
KENYA, Nairobi	2006-2012	7		651	899	84.0	5.8	18.4	3.2	0.0	99.0	106.2
LIBYA, Benghazi	2003-2008	6		318	420	87.6	2.1	27.6	4.1	8.9	110.1	108.2
MALI, Bamako	2005-2014	10		1158	1470	70.4	1.0	33.6	1.4	3.7	159.3	150.9
MAURITIUS	2001-2013	13		369	551	85.5	0.0	38.7	1.1	0.0	101.1	109.4
MOROCCO, 2 registries	2005-2012	8		1146	1688	98.2	NP	8.5	4.7	15.0	129.3	137.8
MOROCCO, Casablanca	2005-2012	8		996	1496	100.0	-	9.0	4.1	13.8	126.4	137.2
MOROCCO, Rabat	2005-2012	8		150	192	84.4	10.4	5.2	8.7	21.2	152.6	143.0
SOUTH AFRICA, paediatric	1998-2012	15	+	9700	-	NP	-	3.5	8.0	6.6	45.6	-
SOUTH AFRICA, paediatric, Asian	1998-2012	15	+	285	-	96.5	0.0	1.1	6.0	8.8	78.2	-
SOUTH AFRICA, paediatric, Black	1998-2012	15	+	6988	-	NP	0.0	4.0	7.7	7.4	39.0	-
SOUTH AFRICA, paediatric, Coloured	1998-2012	15	+	1302	-	93.6	0.0	3.3	9.5	4.9	71.5	-
SOUTH AFRICA, paediatric, White	1998-2012	15	+	1124	-	96.3	0.0	1.7	8.8	4.7	100.5	-
TUNISIA, 2 registries	1993-2007	15		1830	2712	97.3	NP	5.7	2.9	9.5	97.8	104.3
TUNISIA, Central	1993-2007	15		239	350	97.1	-	2.6	5.9	10.0	111.1	118.2
TUNISIA, North	1994-2006	13		1591	2362	97.3	-	6.1	2.5	9.5	96.0	102.4
UGANDA, Kampala	1996-2013	18		1877	2494	67.4	1.7	22.7	2.6	0.0	139.4	138.9
ZIMBABWE, Harare	1995-2013	19		1082	1454	77.6	5.4	16.9	5.6	6.0	126.3	126.2

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Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
AMERICA, LATIN AND THE CARIBBEAN												
ARGENTINA, paediatric	2000-2013	14	+	18067	-	95.6	2.2	6.4	9.4	14.9	128.1	-
ARGENTINA, 6 registries	1991-2013	23		2951	4071	94.0	NP	11.3	9.0	12.1	137.5	140.4
ARGENTINA, Bahía Blanca	1991-2007	17		194	273	82.8	3.7	19.8	12.4	11.4	166.8	171.8
ARGENTINA, Chaco	2002-2012	11		473	618	94.8	0.8	12.6	7.0	1.1	133.5	130.5
ARGENTINA, Córdoba	2004-2012	9		1010	1402	95.6	2.4	10.3	9.2	11.1	139.8	142.8
ARGENTINA, Entre Ríos	2001-2011	11		409	555	94.2	3.2	14.8	7.3	1.4	121.5	123.4
ARGENTINA, Mendoza	2003-2012	10		597	893	96.2	0.9	8.5	9.5	23.1	134.7	147.2
ARGENTINA, Neuquén	2003-2013	11		268	330	88.8	3.9	7.9	10.8	18.2	153.8	143.4
BRAZIL, 5 registries	1995-2012	18		2603	3858	91.7	NP	10.2	7.3	6.1	145.2	151.0
BRAZIL, Aracaju	1996-2012	17		269	414	91.3	4.6	8.7	5.2	7.5	122.1	131.4
BRAZIL, Belo Horizonte	2000-2006	7		516	771	86.5	12.6	13.1	7.0	16.0	132.1	138.2
BRAZIL, Curitiba	1998-2010	13		816	1192	91.8	6.5	6.4	8.3	6.5	160.4	165.5
BRAZIL, Goiânia	1995-2011	17		754	1114	94.2	3.7	7.5	7.6	0.0	157.6	163.0
BRAZIL, João Pessoa	1999-2010	12		248	367	95.1	1.4	26.2	5.6	0.0	127.0	131.6
CHILE, paediatric	2007-2011	5	+	2380	-	93.4	2.6	5.4	9.5	17.4	131.5	-
CHILE, 4 registries	1998-2012	15		630	909	93.8	NP	9.4	9.7	18.1	146.3	150.3
CHILE, Antofagasta	2003-2010	8		140	186	94.1	3.8	14.0	12.1	0.0	130.0	127.8
CHILE, Bío Bío	2003-2012	10		125	174	93.1	0.0	9.2	12.8	24.1	141.7	142.5
CHILE, Concepción	2006-2010	5		171	255	93.3	1.6	9.4	6.4	25.0	163.4	166.8
CHILE, Valdivia	1998-2012	15		194	294	94.6	0.7	6.5	8.8	14.3	149.5	160.1
COLOMBIA, 4 registries	1992-2013	22		2537	3537	94.1	NP	9.9	6.2	19.0	149.6	152.3
COLOMBIA, Bucaramanga	2000-2012	13		520	725	92.4	2.1	20.7	4.2	12.5	151.0	153.1
COLOMBIA, Cali	1992-2013	22		1737	2398	94.9	0.6	7.4	6.4	21.9	155.6	157.8
COLOMBIA, Manizales	2003-2012	10		92	143	97.2	1.4	4.9	7.6	0.0	105.5	113.5
COLOMBIA, Pasto	1998-2012	15		188	271	90.8	3.3	5.9	9.0	15.0	126.7	131.7
COSTA RICA	1993-2012	20		3112	4555	91.2	1.4	11.2	6.5	0.0	133.9	144.6
CUBA	2000-2012	13		3411	4741	89.4	6.6	13.1	7.2	2.8	130.2	129.7
ECUADOR, 5 registries	1993-2013	21		3018	4145	91.8	NP	10.4	6.8	1.0	141.7	144.2
ECUADOR, Cuenca	1996-2013	18		328	460	91.5	1.7	11.3	8.8	1.7	132.2	136.1
ECUADOR, Guayaquil	2008-2012	5		566	758	89.8	1.5	12.5	6.9	0.0	171.9	173.3
ECUADOR, Loja	1997-2013	17		168	226	91.2	0.4	6.6	9.5	0.0	165.3	164.4

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				0-14	0-19						0-14	0-19
ECUADOR, Manabí	1995-2011	17		656	850	88.9	5.4	12.9	4.6	0.0	101.7	98.2
ECUADOR, Quito	1993-2012	20		1300	1851	94.0	1.9	8.6	7.1	1.9	161.7	169.6
FRANCE, 3 registries	1990-2012	23		343	493	91.3	NP	7.7	7.9	36.9	111.0	117.9
FRANCE, French Guiana	2003-2012	10		101	149	84.6	0.7	18.1	15.8	42.4	135.8	160.4
FRANCE, Guadeloupe	2008-2012	5		55	69	97.1	0.0	0.0	1.8	28.6	124.5	116.5
FRANCE, Martinique	1990-2012	23		187	275	93.5	0.0	4.0	5.3	35.1	97.3	103.4
HONDURAS, Francisco Morazán	2002-2012	11		684	924	95.1	0.2	8.3	4.5	18.6	90.1	94.8
JAMAICA, Kingston and St Andrew	1982-2012	31		433	616	94.3	0.5	6.8	7.9	6.3	76.1	79.3
MEXICO, Mexico City, paediatric	1997-2013	17	+	1560	-	98.9	-	0.8	6.0	6.8	134.7	-
PERU, Lima	2010-2012	3		1052	1498	84.1	4.8	16.2	7.1	40.1	153.1	156.7
PERU, Trujillo	1990-2002	13		252	348	92.8	2.3	15.5	3.6	0.0	107.1	107.6
USA, Puerto Rico	1992-2012	21		2188	3218	95.5	1.9	8.5	8.5	12.9	125.7	133.8
URUGUAY	1993-2012	20		2114	2930	89.8	7.5	10.0	8.2	0.0	142.4	145.7
AMERICA, NORTH												
CANADA, 9 registries	1992-2013	22		18309	27396	88.0	NP	5.0	10.4	14.5	164.9	176.4
CANADA, Alberta	1992-2013	22		2203	3329	94.4	0.0	1.5	10.7	30.1	159.6	174.7
CANADA, British Columbia	1992-2013	22		2398	3503	92.3	0.2	1.9	9.0	10.8	160.5	166.6
CANADA, Manitoba	1992-2013	22		778	1199	93.7	0.1	2.2	7.5	28.6	151.3	168.7
CANADA, Northwest Territories	1992-2012	21		25	33	NP	NP	NP	NP	NP	NP	NP
CANADA, Nova Scotia	1992-2013	22		566	831	92.1	0.1	3.4	9.9	33.1	170.2	175.5
CANADA, Ontario	1992-2012	21		7441	11374	83.2	0.2	7.3	10.5	12.1	164.3	179.6
CANADA, Quebec	1992-2010	19		4160	6039	87.7	0.5	5.7	12.2	0.0	175.3	181.8
CANADA, Saskatchewan	1992-2013	22		722	1066	95.3	0.2	2.3	7.9	27.2	161.3	170.7
CANADA, Yukon	1992-2013	22		16	22	NP	NP	NP	NP	NP	NP	NP
USA	1998-2012	15		146015	216741	93.4	0.5	2.8	10.5	21.8	166.9	179.6
USA, API	1998-2012	15		5397	7699	94.1	0.5	2.4	10.9	21.1	122.6	128.7
USA, Black	1998-2012	15		18246	26280	92.6	0.5	3.5	9.8	23.4	126.1	133.0
USA, Hispanic White	1998-2012	15		27814	38618	93.3	0.5	3.1	10.7	24.2	167.0	176.5
USA, Native American	1998-2012	15		1233	1848	93.3	0.8	3.2	10.7	27.1	87.8	95.2
USA, NH White	1998-2012	15		88930	135703	93.6	0.4	2.6	10.5	20.5	175.9	190.9
USA, NPCR	1998-2012	15		139841	207568	93.3	0.5	2.8	10.5	22.6	167.1	179.8
USA, NPCR, API	1998-2012	15		4898	6981	93.9	0.5	2.5	11.0	23.0	122.0	127.9

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				0-14	0-19						0-14	0-19
USA, NPCR, Black	1998-2012	15		17973	25887	92.6	0.5	3.5	9.8	23.8	126.4	133.2
USA, NPCR, Hispanic White	1998-2012	15		26763	37139	93.3	0.5	3.1	10.7	25.0	167.3	176.7
USA, NPCR, Native American	1998-2012	15		1105	1668	93.3	0.8	3.3	10.4	28.4	85.9	93.6
USA, NPCR, NH White	1998-2012	15		84780	129409	93.5	0.4	2.6	10.5	21.3	176.1	191.0
USA, SEER 18	1993-2012	20		44741	65217	95.5	0.1	2.1	10.3	0.0	161.3	172.9
USA, SEER 18, API	1993-2012	20		3428	4889	95.8	0.1	2.0	10.9	0.0	133.0	139.7
USA, SEER 18, Black	1993-2012	20		5070	7104	95.0	0.2	3.0	10.4	0.0	124.5	129.0
USA, SEER 18, Hispanic White	1993-2012	20		12166	16750	96.2	0.1	2.0	10.3	0.0	168.7	176.5
USA, SEER 18, Native American	1993-2012	20		471	667	94.6	0.1	3.1	12.3	0.0	90.4	93.3
USA, SEER 18, NH White	1993-2012	20		23020	34916	95.4	0.1	1.8	9.9	0.0	172.5	188.5
USA, SEER 9, Black	1993-2012	20		2146	2956	95.6	0.2	3.0	11.7	0.0	127.9	132.1
USA, SEER 9, White	1993-2012	20		13332	19796	95.6	0.1	2.0	10.7	0.0	167.2	182.3
USA, Alabama	1998-2012	15		1960	2881	93.9	0.9	3.9	10.6	16.4	145.2	154.2
USA, Alabama, API	1998-2012	15		19	23	NP	NP	NP	NP	NP	NP	NP
USA, Alabama, Black	1998-2012	15		536	772	94.4	1.2	3.9	10.1	21.5	121.9	126.8
USA, Alabama, Hispanic White	1998-2012	15		78	90	87.8	1.1	1.1	14.1	17.4	149.4	136.6
USA, Alabama, Native American	1998-2012	15		3	5	NP	NP	NP	NP	NP	NP	NP
USA, Alabama, NH White	1998-2012	15		1303	1949	94.0	0.9	4.2	10.5	14.1	156.2	167.9
USA, Alaska	1998-2012	15		364	553	92.4	0.2	4.0	14.0	33.9	165.3	182.0
USA, Alaska, API	1998-2012	15		34	43	NP	NP	NP	NP	NP	NP	NP
USA, Alaska, Black	1998-2012	15		10	15	NP	NP	NP	NP	NP	NP	NP
USA, Alaska, Hispanic White	1998-2012	15		17	19	NP	NP	NP	NP	NP	NP	NP
USA, Alaska, Native American	1998-2012	15		96	154	90.3	0.0	5.2	13.5	51.4	194.2	225.5
USA, Alaska, NH White	1998-2012	15		196	306	93.8	0.3	3.9	13.8	26.8	150.1	166.8
USA, Alaska Natives, Native American	1993-2012	20		115	159	95.0	0.0	6.3	14.8	0.0	176.5	182.7
USA, Arizona	1998-2012	15		2994	4341	91.7	0.5	3.4	11.2	20.9	163.1	175.2
USA, Arizona, API	1998-2012	15		53	72	95.8	0.0	1.4	1.9	11.8	96.9	99.2
USA, Arizona, Black	1998-2012	15		97	145	88.3	0.0	4.1	8.2	27.3	92.8	104.1
USA, Arizona, Hispanic White	1998-2012	15		1038	1427	91.0	1.1	3.2	10.8	20.7	149.6	157.5
USA, Arizona, Native American	1998-2012	15		168	249	92.0	0.4	3.2	9.5	24.1	117.5	128.0
USA, Arizona, NH White	1998-2012	15		1449	2220	92.3	0.3	3.3	12.3	19.1	172.5	189.8
USA, Arkansas	1998-2012	15		1341	1914	89.7	0.4	3.7	11.1	23.4	160.7	167.7

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, Arkansas, API	1998-2012	15		15	22	NP	NP	NP	NP	NP	NP	NP
USA, Arkansas, Black	1998-2012	15		215	336	91.7	0.6	3.6	10.2	17.7	123.3	139.7
USA, Arkansas, Hispanic White	1998-2012	15		70	91	92.3	1.1	5.5	11.4	28.6	109.0	112.8
USA, Arkansas, Native American	1998-2012	15		6	8	NP	NP	NP	NP	NP	NP	NP
USA, Arkansas, NH White	1998-2012	15		1019	1437	89.1	0.3	3.5	11.3	24.5	177.4	181.6
USA, California	1998-2012	15		18742	27570	95.4	0.4	1.7	9.6	23.8	167.2	179.9
USA, California, API	1998-2012	15		1825	2708	95.2	0.4	1.6	10.5	23.7	134.5	143.1
USA, California, Black	1998-2012	15		1140	1638	95.4	0.2	2.5	8.8	22.7	120.4	126.6
USA, California, Hispanic White	1998-2012	15		8847	12306	95.5	0.3	1.7	10.0	24.4	175.7	184.6
USA, California, Native American	1998-2012	15		69	103	95.1	0.0	2.9	7.2	40.0	31.0	33.0
USA, California, NH White	1998-2012	15		6731	10556	95.2	0.5	1.5	9.0	23.1	184.5	203.9
USA, California, Greater California	2000-2012	13		9048	13237	96.0	0.1	1.6	9.2	0.0	166.1	176.2
USA, California, Greater California, API	2000-2012	13		660	973	95.9	0.0	1.4	10.9	0.0	128.6	134.4
USA, California, Greater California, Black	2000-2012	13		455	631	96.7	0.0	2.2	9.0	0.0	116.5	118.4
USA, California, Greater California, Hispanic White	2000-2012	13		4224	5785	96.2	0.1	1.7	9.3	0.0	176.0	181.9
USA, California, Greater California, Native American	2000-2012	13		90	142	94.4	0.0	2.1	12.2	0.0	71.8	79.2
USA, California, Greater California, NH White	2000-2012	13		3510	5520	95.9	0.1	1.4	8.5	0.0	174.5	190.2
USA, California, Los Angeles	1993-2012	20		6545	9333	97.6	0.1	1.6	10.0	0.0	156.6	166.7
USA, California, Los Angeles, API	1993-2012	20		569	830	96.6	0.1	2.2	10.9	0.0	126.6	131.4
USA, California, Los Angeles, Black	1993-2012	20		539	770	97.7	0.0	3.0	8.3	0.0	114.5	121.7
USA, California, Los Angeles, Hispanic White	1993-2012	20		3863	5281	97.6	0.1	1.5	10.4	0.0	166.4	173.2
USA, California, Los Angeles, Native American	1993-2012	20		6	10	NP	NP	NP	NP	NP	NP	NP
USA, California, Los Angeles, NH White	1993-2012	20		1500	2336	97.8	0.2	1.1	9.5	0.0	170.4	193.3
USA, California, San Francisco	1993-2012	20		2357	3358	96.4	0.1	1.8	12.2	0.0	157.2	168.4
USA, California, San Francisco, API	1993-2012	20		467	670	96.3	0.1	1.2	10.7	0.0	137.1	145.9
USA, California, San Francisco, Black	1993-2012	20		233	325	94.5	0.0	2.5	11.2	0.0	124.2	128.6
USA, California, San Francisco, Hispanic White	1993-2012	20		600	832	97.7	0.0	2.0	13.3	0.0	164.7	174.9
USA, California, San Francisco, Native American	1993-2012	20		6	10	NP	NP	NP	NP	NP	NP	NP
USA, California, San Francisco, NH White	1993-2012	20		973	1411	96.3	0.1	1.6	12.0	0.0	165.2	180.6
USA, California, San Francisco, White	1993-2012	20		1573	2243	96.8	0.0	1.8	12.5	0.0	164.8	178.3
USA, California, San José	1993-2012	20		1633	2363	96.8	0.1	1.8	10.5	0.0	165.5	179.2
USA, California, San José, API	1993-2012	20		305	434	95.9	0.0	3.2	11.5	0.0	135.6	149.0

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, California, San José, Black	1993-2012	20		35	54	96.3	0.0	3.7	5.7	0.0	NP	105.5
USA, California, San José, Hispanic White	1993-2012	20		676	952	96.5	0.2	1.6	11.7	0.0	180.0	192.8
USA, California, San José, Native American	1993-2012	20		2	3	NP	NP	NP	NP	NP	NP	NP
USA, California, San José, NH White	1993-2012	20		600	889	97.9	0.1	1.1	9.0	0.0	180.2	193.8
USA, Colorado	1998-2012	15		2201	3356	92.6	0.6	1.9	10.2	23.4	156.0	173.8
USA, Colorado, API	1998-2012	15		58	86	95.3	1.2	3.5	10.3	30.8	122.7	136.2
USA, Colorado, Black	1998-2012	15		89	127	91.3	0.0	0.8	6.7	20.0	101.9	109.9
USA, Colorado, Hispanic White	1998-2012	15		593	823	93.3	1.1	2.4	8.4	23.4	161.8	173.4
USA, Colorado, Native American	1998-2012	15		18	23	NP	NP	NP	NP	NP	NP	NP
USA, Colorado, NH White	1998-2012	15		1398	2217	92.6	0.5	1.8	10.7	21.8	158.3	178.6
USA, Connecticut	1993-2012	20		2231	3297	94.7	0.3	2.6	10.0	0.0	169.0	183.1
USA, Connecticut, API	1993-2012	20		50	77	93.5	1.3	3.9	12.0	0.0	100.3	118.5
USA, Connecticut, Black	1993-2012	20		234	333	94.3	0.6	3.3	9.4	0.0	123.5	130.4
USA, Connecticut, Hispanic White	1993-2012	20		345	472	92.6	0.6	3.4	9.3	0.0	195.8	201.4
USA, Connecticut, Native American	1993-2012	20		2	4	NP	NP	NP	NP	NP	NP	NP
USA, Connecticut, NH White	1993-2012	20		1563	2353	95.5	0.2	2.3	10.3	0.0	174.3	190.5
USA, Connecticut, White	1993-2012	20		1908	2825	95.0	0.2	2.5	10.1	0.0	177.7	192.2
USA, Delaware	1998-2012	15		465	663	90.8	0.5	2.9	10.1	20.3	193.3	199.1
USA, Delaware, API	1998-2012	15		8	10	NP	NP	NP	NP	NP	NP	NP
USA, Delaware, Black	1998-2012	15		116	164	92.1	1.2	6.7	7.8	31.7	170.6	176.3
USA, Delaware, Hispanic White	1998-2012	15		46	58	82.8	0.0	3.4	10.9	0.0	NP	212.9
USA, Delaware, NH White	1998-2012	15		282	415	91.8	0.2	1.4	10.3	19.4	199.3	206.9
USA, District of Columbia	1998-2012	15		246	338	86.1	3.0	7.4	15.4	17.5	181.2	176.3
USA, District of Columbia, API	1998-2012	15		5	7	NP	NP	NP	NP	NP	NP	NP
USA, District of Columbia, Black	1998-2012	15		136	188	86.7	3.2	6.9	13.2	16.7	139.8	140.5
USA, District of Columbia, Hispanic White	1998-2012	15		21	24	NP	NP	NP	NP	NP	NP	NP
USA, District of Columbia, Native American	1998-2012	15		1	2	NP	NP	NP	NP	NP	NP	NP
USA, District of Columbia, NH White	1998-2012	15		55	80	88.8	3.8	6.3	21.8	14.3	235.3	219.3
USA, Florida	1998-2012	15		7861	11510	94.2	0.4	2.9	10.5	22.3	170.4	180.3
USA, Florida, API	1998-2012	15		107	143	93.7	0.0	2.1	8.4	38.1	84.6	83.7
USA, Florida, Black	1998-2012	15		1436	2033	93.5	0.3	3.3	10.5	20.4	134.1	138.4
USA, Florida, Hispanic White	1998-2012	15		2073	2876	94.4	0.4	3.2	11.0	25.1	202.6	206.6

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, Florida, Native American	1998-2012	15		12	18	NP	NP	NP	NP	NP	NP	NP
USA, Florida, NH White	1998-2012	15		4072	6198	94.5	0.3	2.7	10.1	21.2	172.3	187.2
USA, Georgia	1998-2012	15		4513	6541	93.0	0.3	2.9	10.1	23.7	158.8	169.6
USA, Georgia, API	1998-2012	15		123	163	92.6	0.0	3.1	11.4	20.6	136.3	136.6
USA, Georgia, Black	1998-2012	15		1387	1944	92.1	0.2	3.6	10.7	22.6	136.9	141.0
USA, Georgia, Hispanic White	1998-2012	15		378	505	93.7	0.0	3.4	11.1	21.3	143.6	153.5
USA, Georgia, Native American	1998-2012	15		6	9	NP	NP	NP	NP	NP	NP	NP
USA, Georgia, NH White	1998-2012	15		2567	3844	93.7	0.4	2.3	9.4	23.9	175.4	191.2
USA, Georgia, Atlanta	1993-2012	20		1890	2681	95.4	0.1	2.2	11.5	0.0	148.8	158.8
USA, Georgia, Atlanta, API	1993-2012	20		97	129	96.1	0.0	2.3	11.3	0.0	138.7	140.3
USA, Georgia, Atlanta, Black	1993-2012	20		739	1002	94.7	0.2	2.4	11.9	0.0	134.0	136.1
USA, Georgia, Atlanta, Hispanic White	1993-2012	20		216	287	94.8	0.0	2.8	13.0	0.0	156.3	166.1
USA, Georgia, Atlanta, Native American	1993-2012	20		5	7	NP	NP	NP	NP	NP	NP	NP
USA, Georgia, Atlanta, NH White	1993-2012	20		817	1233	96.0	0.0	1.5	10.6	0.0	162.7	182.4
USA, Georgia, Atlanta, White	1993-2012	20		1033	1520	95.8	0.0	1.8	11.1	0.0	160.5	178.6
USA, Georgia, Greater Georgia	2000-2012	13		2440	3533	94.0	0.2	2.5	9.7	0.0	154.1	162.9
USA, Georgia, Greater Georgia, API	2000-2012	13		35	43	NP	NP	NP	NP	NP	NP	NP
USA, Georgia, Greater Georgia, Black	2000-2012	13		619	879	92.7	0.1	3.4	9.9	0.0	126.9	131.0
USA, Georgia, Greater Georgia, Hispanic White	2000-2012	13		189	251	93.6	0.0	3.6	10.1	0.0	149.1	157.7
USA, Georgia, Greater Georgia, Native American	2000-2012	13		1	3	NP	NP	NP	NP	NP	NP	NP
USA, Georgia, Greater Georgia, NH White	2000-2012	13		1565	2316	94.9	0.3	2.0	9.2	0.0	167.0	179.0
USA, Georgia, Rural	1993-2012	20		63	91	92.3	1.1	2.2	11.1	0.0	127.9	136.8
USA, Georgia, Rural, API	1993-2012	20		0	-	NP	NP	NP	NP	NP	NP	-
USA, Georgia, Rural, Black	1993-2012	20		29	39	NP	NP	NP	NP	NP	NP	NP
USA, Georgia, Rural, Hispanic White	1993-2012	20		0	-	NP	NP	NP	NP	NP	NP	-
USA, Georgia, Rural, Native American	1993-2012	20		0	-	NP	NP	NP	NP	NP	NP	-
USA, Georgia, Rural, NH White	1993-2012	20		33	51	92.2	2.0	2.0	15.2	0.0	NP	173.9
USA, Hawaii	1993-2012	20		731	1059	96.7	0.1	2.1	10.7	0.0	148.7	160.0
USA, Hawaii, API	1993-2012	20		531	775	96.9	0.1	1.9	10.7	0.0	137.9	149.3
USA, Hawaii, Black	1993-2012	20		21	24	NP	NP	NP	NP	NP	NP	NP
USA, Hawaii, Hawaiian	1993-2012	20		226	317	96.5	0.6	1.6	10.6	0.0	141.2	150.4
USA, Hawaii, Hispanic White	1993-2012	20		17	24	NP	NP	NP	NP	NP	NP	NP

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, Hawaii, Native American	1993-2012	20		4	5	NP	NP	NP	NP	NP	NP	NP
USA, Hawaii, NH White	1993-2012	20		142	211	95.3	0.0	1.4	10.6	0.0	201.3	218.1
USA, Hawaii, White	1993-2012	20		159	235	95.3	0.0	1.7	10.1	0.0	185.2	200.9
USA, Idaho	1998-2012	15		795	1201	93.9	0.3	2.6	9.7	16.8	166.0	182.5
USA, Idaho, API	1998-2012	15		5	11	NP	NP	NP	NP	NP	NP	NP
USA, Idaho, Black	1998-2012	15		5	5	NP	NP	NP	NP	NP	NP	NP
USA, Idaho, Hispanic White	1998-2012	15		90	119	89.1	0.8	3.4	8.9	6.7	133.9	137.7
USA, Idaho, Native American	1998-2012	15		9	15	NP	NP	NP	NP	NP	NP	NP
USA, Idaho, NH White	1998-2012	15		674	1037	94.6	0.3	2.4	9.6	16.7	173.8	192.0
USA, Illinois	1998-2012	15		6236	9369	94.4	0.5	2.5	9.5	26.8	162.6	177.8
USA, Illinois, API	1998-2012	15		212	304	94.1	0.0	1.6	10.4	29.4	126.8	135.8
USA, Illinois, Black	1998-2012	15		896	1322	94.4	0.5	3.0	7.7	27.1	121.9	131.4
USA, Illinois, Hispanic White	1998-2012	15		1149	1623	96.0	0.3	2.0	11.0	26.0	152.7	166.6
USA, Illinois, Native American	1998-2012	15		7	11	NP	NP	NP	NP	NP	NP	NP
USA, Illinois, NH White	1998-2012	15		3859	5934	94.1	0.6	2.7	9.5	26.4	179.4	196.2
USA, Indiana	1998-2012	15		3215	4757	93.0	0.2	1.9	10.8	20.6	169.5	181.3
USA, Indiana, API	1998-2012	15		45	55	90.9	0.0	5.5	26.7	14.3	NP	134.1
USA, Indiana, Black	1998-2012	15		291	417	91.1	0.2	2.9	11.3	24.3	120.0	129.4
USA, Indiana, Hispanic White	1998-2012	15		193	267	94.0	0.4	1.9	12.4	24.0	142.3	156.4
USA, Indiana, Native American	1998-2012	15		0	1	NP	NP	NP	NP	NP	NP	NP
USA, Indiana, NH White	1998-2012	15		2629	3938	93.2	0.2	1.8	10.2	19.7	177.6	189.7
USA, Iowa	1993-2012	20		1937	2869	95.7	0.2	1.6	9.3	0.0	169.3	178.9
USA, Iowa, API	1993-2012	20		33	40	NP	NP	NP	NP	NP	NP	NP
USA, Iowa, Black	1993-2012	20		67	96	96.9	1.0	3.1	9.0	0.0	123.8	136.4
USA, Iowa, Hispanic White	1993-2012	20		118	144	94.4	0.0	2.1	10.2	0.0	183.6	175.4
USA, Iowa, Native American	1993-2012	20		9	10	NP	NP	NP	NP	NP	NP	NP
USA, Iowa, NH White	1993-2012	20		1689	2549	95.8	0.2	1.5	9.4	0.0	169.5	180.2
USA, Iowa, White	1993-2012	20		1807	2693	95.8	0.1	1.6	9.5	0.0	170.3	180.2
USA, Kentucky	1998-2012	15		2140	3160	89.5	1.1	2.7	10.1	25.0	176.0	189.1
USA, Kentucky, API	1998-2012	15		23	28	NP	NP	NP	NP	NP	NP	NP
USA, Kentucky, Black	1998-2012	15		166	245	89.0	0.0	1.2	10.2	34.4	130.9	141.4
USA, Kentucky, Hispanic White	1998-2012	15		57	78	87.2	3.8	1.3	12.3	22.7	139.8	155.9

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, Kentucky, Native American	1998-2012	15		2	2	NP	NP	NP	NP	NP	NP	NP
USA, Kentucky, NH White	1998-2012	15		1817	2695	90.0	0.9	2.7	10.0	24.0	176.7	189.6
USA, Louisiana	1998-2012	15		2145	3162	92.1	1.2	3.7	10.6	22.8	154.8	164.6
USA, Louisiana, API	1998-2012	15		34	54	90.7	1.9	3.7	11.8	28.6	NP	182.1
USA, Louisiana, Black	1998-2012	15		688	999	91.8	1.1	3.7	10.9	20.4	122.8	129.5
USA, Louisiana, Hispanic White	1998-2012	15		74	95	92.6	1.1	1.1	14.9	5.9	163.4	160.5
USA, Louisiana, Native American	1998-2012	15		1	3	NP	NP	NP	NP	NP	NP	NP
USA, Louisiana, NH White	1998-2012	15		1302	1950	92.6	0.9	3.6	10.0	24.8	173.6	186.2
USA, Maine	1998-2012	15		634	962	96.4	0.2	1.2	11.4	15.1	188.6	200.3
USA, Maine, API	1998-2012	15		7	11	NP	NP	NP	NP	NP	NP	NP
USA, Maine, Black	1998-2012	15		10	13	NP	NP	NP	NP	NP	NP	NP
USA, Maine, Hispanic White	1998-2012	15		2	3	NP	NP	NP	NP	NP	NP	NP
USA, Maine, Native American	1998-2012	15		2	5	NP	NP	NP	NP	NP	NP	NP
USA, Maine, NH White	1998-2012	15		605	921	96.3	0.2	1.1	11.2	15.8	192.8	204.7
USA, Maryland	1998-2012	15		2287	3533	90.3	0.4	4.9	11.4	16.5	140.1	156.8
USA, Maryland, API	1998-2012	15		74	99	84.8	0.0	8.1	10.8	14.3	81.9	82.6
USA, Maryland, Black	1998-2012	15		609	906	92.3	0.4	3.9	10.5	14.7	106.1	115.6
USA, Maryland, Hispanic White	1998-2012	15		130	196	87.8	1.0	7.1	12.3	18.5	112.2	131.3
USA, Maryland, Native American	1998-2012	15		7	8	NP	NP	NP	NP	NP	NP	NP
USA, Maryland, NH White	1998-2012	15		1335	2144	90.9	0.2	4.8	11.5	17.1	157.6	180.0
USA, Massachusetts	1998-2012	15		3056	4643	94.8	0.1	1.9	10.7	19.3	176.6	190.1
USA, Massachusetts, API	1998-2012	15		109	150	96.0	0.0	2.0	13.8	10.5	110.6	110.4
USA, Massachusetts, Black	1998-2012	15		202	302	96.0	0.3	2.0	9.4	27.1	109.2	118.3
USA, Massachusetts, Hispanic White	1998-2012	15		303	452	94.5	0.0	2.4	7.9	21.2	167.9	184.0
USA, Massachusetts, Native American	1998-2012	15		7	10	NP	NP	NP	NP	NP	NP	NP
USA, Massachusetts, NH White	1998-2012	15		2363	3606	94.6	0.1	1.7	10.9	19.1	188.1	201.7
USA, Michigan	1998-2012	15		5167	7752	94.4	0.2	2.9	12.3	20.0	177.2	190.0
USA, Michigan, API	1998-2012	15		69	93	93.5	0.0	1.1	15.9	30.8	84.5	85.9
USA, Michigan, Black	1998-2012	15		773	1089	94.0	0.1	3.6	12.7	22.9	138.5	143.7
USA, Michigan, Hispanic White	1998-2012	15		232	306	93.8	0.0	3.9	9.9	9.7	141.3	144.2
USA, Michigan, Native American	1998-2012	15		21	35	NP	NP	NP	NP	NP	NP	NP
USA, Michigan, NH White	1998-2012	15		3894	5937	94.6	0.2	2.6	12.2	19.0	186.9	200.8

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, Michigan, Detroit	1993-2012	20		2553	3772	97.3	0.1	3.0	10.8	0.0	157.2	172.5
USA, Michigan, Detroit, API	1993-2012	20		66	92	96.7	0.0	4.3	10.6	0.0	110.7	123.6
USA, Michigan, Detroit, Black	1993-2012	20		633	888	97.3	0.1	3.8	13.0	0.0	125.5	131.4
USA, Michigan, Detroit, Hispanic White	1993-2012	20		123	163	96.3	0.0	4.9	8.1	0.0	178.8	185.3
USA, Michigan, Detroit, Native American	1993-2012	20		6	8	NP	NP	NP	NP	NP	NP	NP
USA, Michigan, Detroit, NH White	1993-2012	20		1703	2578	97.5	0.1	2.5	10.1	0.0	173.0	192.8
USA, Michigan, Detroit, White	1993-2012	20		1826	2741	97.4	0.1	2.6	10.0	0.0	173.4	192.4
USA, Minnesota	1998-2012	15		2532	3872	99.3	0.2	2.1	9.8	19.3	165.7	181.9
USA, Minnesota, API	1998-2012	15		144	191	98.4	1.0	3.1	11.1	15.4	175.2	173.1
USA, Minnesota, Black	1998-2012	15		143	204	98.0	0.5	1.5	12.6	34.1	112.6	125.4
USA, Minnesota, Hispanic White	1998-2012	15		68	95	100.0	0.0	1.1	7.4	13.3	75.8	84.9
USA, Minnesota, Native American	1998-2012	15		40	58	94.8	0.0	1.7	7.5	40.0	NP	134.4
USA, Minnesota, NH White	1998-2012	15		1900	2899	99.5	0.1	2.3	9.7	17.5	159.3	171.8
USA, Mississippi	2002-2012	11		976	1435	92.3	0.5	2.2	10.8	29.6	146.1	155.4
USA, Mississippi, API	2002-2012	11		4	7	NP	NP	NP	NP	NP	NP	NP
USA, Mississippi, Black	2002-2012	11		370	540	93.1	0.6	2.8	8.1	28.3	122.8	129.7
USA, Mississippi, Hispanic White	2002-2012	11		16	22	NP	NP	NP	NP	NP	NP	NP
USA, Mississippi, Native American	2002-2012	11		7	10	NP	NP	NP	NP	NP	NP	NP
USA, Mississippi, NH White	2002-2012	11		567	837	92.7	0.2	1.4	12.7	28.1	167.2	178.0
USA, Missouri	1996-2012	17		3036	4431	94.5	1.0	2.2	11.7	16.2	158.7	167.3
USA, Missouri, API	1996-2012	17		41	51	100.0	0.0	3.9	7.3	0.0	NP	114.0
USA, Missouri, Black	1996-2012	17		402	582	94.8	1.2	2.9	8.7	26.1	131.9	140.6
USA, Missouri, Hispanic White	1996-2012	17		96	120	91.7	0.8	3.3	12.5	17.9	127.0	123.6
USA, Missouri, Native American	1996-2012	17		7	9	NP	NP	NP	NP	NP	NP	NP
USA, Missouri, NH White	1996-2012	17		2177	3193	94.4	1.0	2.1	11.6	15.1	146.1	153.7
USA, Montana	1998-2012	15		415	678	93.1	0.9	2.2	11.1	18.0	156.8	177.8
USA, Montana, API	1998-2012	15		3	4	NP	NP	NP	NP	NP	NP	NP
USA, Montana, Black	1998-2012	15		2	4	NP	NP	NP	NP	NP	NP	NP
USA, Montana, Hispanic White	1998-2012	15		14	21	NP	NP	NP	NP	NP	NP	NP
USA, Montana, Native American	1998-2012	15		56	70	91.4	4.3	4.3	12.5	21.1	186.9	176.4
USA, Montana, NH White	1998-2012	15		331	564	93.4	0.5	1.8	10.9	18.4	149.9	174.3
USA, Nebraska	1998-2012	15		949	1447	89.6	1.0	2.1	9.7	27.4	173.9	190.9

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, Nebraska, API	1998-2012	15		17	26	NP	NP	NP	NP	NP	NP	NP
USA, Nebraska, Black	1998-2012	15		63	85	88.2	1.2	2.4	7.9	21.7	160.2	165.0
USA, Nebraska, Hispanic White	1998-2012	15		87	122	91.8	1.6	3.3	12.6	40.0	138.0	155.3
USA, Nebraska, Native American	1998-2012	15		8	13	NP	NP	NP	NP	NP	NP	NP
USA, Nebraska, NH White	1998-2012	15		743	1153	89.6	1.0	2.0	8.7	26.9	175.8	192.5
USA, Nevada	1998-2012	15		1076	1571	95.4	0.9	4.3	12.2	16.9	147.6	162.3
USA, Nevada, API	1998-2012	15		55	76	96.1	1.3	9.2	7.3	9.1	110.5	113.6
USA, Nevada, Black	1998-2012	15		83	112	92.9	1.8	7.1	10.8	8.0	102.4	104.8
USA, Nevada, Hispanic White	1998-2012	15		349	485	95.7	0.4	2.3	11.5	20.3	145.5	158.6
USA, Nevada, Native American	1998-2012	15		9	15	NP	NP	NP	NP	NP	NP	NP
USA, Nevada, NH White	1998-2012	15		549	835	95.4	1.0	4.7	12.9	17.2	161.1	179.5
USA, New Hampshire	1998-2012	15		636	999	95.2	0.8	2.3	10.1	20.2	181.6	199.6
USA, New Hampshire, API	1998-2012	15		5	9	NP	NP	NP	NP	NP	NP	NP
USA, New Hampshire, Black	1998-2012	15		10	14	NP	NP	NP	NP	NP	NP	NP
USA, New Hampshire, Hispanic White	1998-2012	15		24	36	NP	NP	NP	NP	NP	NP	NP
USA, New Hampshire, Native American	1998-2012	15		1	1	NP	NP	NP	NP	NP	NP	NP
USA, New Hampshire, NH White	1998-2012	15		584	922	95.4	0.8	2.4	10.1	18.9	182.3	200.0
USA, New Jersey	1998-2012	15		4520	6735	93.5	1.0	3.0	10.6	19.4	179.9	197.7
USA, New Jersey, API	1998-2012	15		317	411	93.7	1.7	3.6	12.3	22.2	150.9	152.0
USA, New Jersey, Black	1998-2012	15		658	916	93.1	1.4	4.4	8.7	21.8	144.6	148.4
USA, New Jersey, Hispanic White	1998-2012	15		663	971	92.1	1.5	4.3	13.3	23.1	155.9	170.6
USA, New Jersey, Native American	1998-2012	15		5	6	NP	NP	NP	NP	NP	NP	NP
USA, New Jersey, NH White	1998-2012	15		2755	4250	94.0	0.5	2.2	10.0	17.7	196.4	220.7
USA, New Mexico	1993-2012	20		1149	1712	94.0	0.5	2.7	11.3	0.0	140.9	152.9
USA, New Mexico, API	1993-2012	20		20	23	NP	NP	NP	NP	NP	NP	NP
USA, New Mexico, Black	1993-2012	20		30	39	NP	NP	NP	NP	NP	NP	NP
USA, New Mexico, Hispanic White	1993-2012	20		531	778	94.1	0.5	3.0	10.4	0.0	130.3	140.7
USA, New Mexico, Native American	1993-2012	20		126	182	94.5	0.5	2.7	14.3	0.0	111.7	120.1
USA, New Mexico, NH White	1993-2012	20		434	675	93.9	0.6	2.2	12.2	0.0	170.3	186.6
USA, New Mexico, White	1993-2012	20		965	1453	94.0	0.6	2.6	11.2	0.0	145.5	158.7
USA, New York State	1998-2012	15		9548	14435	92.9	0.1	2.8	10.2	24.9	177.2	192.3
USA, New York State, API	1998-2012	15		399	585	91.8	0.2	3.1	13.5	25.6	107.2	114.0

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, New York State, Black	1998-2012	15		1549	2277	92.7	0.2	3.5	9.2	27.6	131.7	139.8
USA, New York State, Hispanic White	1998-2012	15		1560	2220	92.3	0.2	3.3	9.9	30.7	177.1	186.9
USA, New York State, Native American	1998-2012	15		17	24	NP	NP	NP	NP	NP	NP	NP
USA, New York State, NH White	1998-2012	15		5494	8553	93.4	0.1	2.4	10.2	21.7	189.8	209.1
USA, New York State, White	1998-2012	15		7054	10773	93.1	0.1	2.6	10.1	23.4	186.5	204.0
USA, North Carolina	1998-2012	15		4146	5982	94.3	0.3	2.5	10.5	20.6	160.7	170.1
USA, North Carolina, API	1998-2012	15		76	96	95.8	0.0	3.1	9.2	15.8	117.0	112.7
USA, North Carolina, Black	1998-2012	15		844	1262	94.0	0.3	4.0	10.5	21.2	122.5	132.3
USA, North Carolina, Hispanic White	1998-2012	15		395	536	95.7	0.7	3.0	12.2	32.6	159.5	175.8
USA, North Carolina, Native American	1998-2012	15		36	53	92.5	1.9	1.9	11.1	23.1	NP	80.0
USA, North Carolina, NH White	1998-2012	15		2714	3932	94.2	0.2	2.0	10.3	18.8	176.7	186.2
USA, North Dakota	1998-2012	15		270	425	93.4	0.5	3.8	10.4	14.3	147.1	159.4
USA, North Dakota, API	1998-2012	15		1	1	NP	NP	NP	NP	NP	NP	NP
USA, North Dakota, Black	1998-2012	15		2	5	NP	NP	NP	NP	NP	NP	NP
USA, North Dakota, Hispanic White	1998-2012	15		1	1	NP	NP	NP	NP	NP	NP	NP
USA, North Dakota, Native American	1998-2012	15		31	42	NP	NP	NP	NP	NP	NP	NP
USA, North Dakota, NH White	1998-2012	15		231	372	93.3	0.3	4.3	10.0	14.8	147.9	161.3
USA, Ohio	1998-2012	15		5363	7931	93.3	0.3	2.2	10.3	20.6	161.0	171.6
USA, Ohio, API	1998-2012	15		64	85	87.1	2.4	2.4	9.4	17.6	106.1	107.7
USA, Ohio, Black	1998-2012	15		659	959	92.1	1.0	2.6	9.0	24.1	116.8	126.2
USA, Ohio, Hispanic White	1998-2012	15		119	160	94.4	0.0	0.6	6.7	14.3	102.9	107.3
USA, Ohio, Native American	1998-2012	15		4	7	NP	NP	NP	NP	NP	NP	NP
USA, Ohio, NH White	1998-2012	15		4345	6463	93.6	0.2	2.2	10.4	20.0	168.3	178.7
USA, Oklahoma	1998-2012	15		1722	2552	94.3	0.5	4.7	10.0	21.1	158.9	170.3
USA, Oklahoma, API	1998-2012	15		25	41	NP	NP	NP	NP	NP	NP	NP
USA, Oklahoma, Black	1998-2012	15		157	230	94.8	0.9	8.3	10.2	22.4	127.6	138.1
USA, Oklahoma, Hispanic White	1998-2012	15		164	207	95.2	0.0	3.9	7.9	17.5	150.5	148.0
USA, Oklahoma, Native American	1998-2012	15		212	345	96.8	0.0	4.3	11.8	24.4	143.9	170.0
USA, Oklahoma, NH White	1998-2012	15		1118	1661	93.6	0.5	4.2	10.0	19.5	163.6	172.9
USA, Oregon	1998-2012	15		1817	2758	92.9	0.2	1.9	9.5	24.7	177.8	194.2
USA, Oregon, API	1998-2012	15		65	93	92.5	0.0	1.1	6.2	24.0	133.2	139.2
USA, Oregon, Black	1998-2012	15		41	54	90.7	0.0	0.0	12.2	18.2	NP	114.2

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, Oregon, Hispanic White	1998-2012	15		262	352	92.9	0.0	2.6	9.2	33.8	155.3	164.8
USA, Oregon, Native American	1998-2012	15		27	41	NP	NP	NP	NP	NP	NP	NP
USA, Oregon, NH White	1998-2012	15		1366	2137	92.9	0.1	1.9	9.2	23.8	183.9	202.0
USA, Pennsylvania	1998-2012	15		5886	9053	92.9	0.4	2.0	11.3	20.4	176.6	190.5
USA, Pennsylvania, API	1998-2012	15		112	158	94.3	0.6	0.6	17.0	23.1	114.7	117.0
USA, Pennsylvania, Black	1998-2012	15		729	1053	92.8	0.2	1.8	11.1	18.7	139.9	147.0
USA, Pennsylvania, Hispanic White	1998-2012	15		205	309	93.2	1.0	2.6	11.7	24.3	102.3	115.1
USA, Pennsylvania, Native American	1998-2012	15		4	9	NP	NP	NP	NP	NP	NP	NP
USA, Pennsylvania, NH White	1998-2012	15		4606	7178	93.0	0.4	2.0	11.0	20.3	184.3	198.9
USA, Rhode Island	1998-2012	15		513	736	97.4	0.1	3.0	11.7	21.2	181.9	183.6
USA, Rhode Island, API	1998-2012	15		11	13	NP	NP	NP	NP	NP	NP	NP
USA, Rhode Island, Black	1998-2012	15		31	41	NP	NP	NP	NP	NP	NP	NP
USA, Rhode Island, Hispanic White	1998-2012	15		80	104	97.1	0.0	5.8	20.0	12.5	196.5	193.2
USA, Rhode Island, Native American	1998-2012	15		1	3	NP	NP	NP	NP	NP	NP	NP
USA, Rhode Island, NH White	1998-2012	15		380	559	97.1	0.2	2.0	10.5	21.3	194.1	196.8
USA, South Carolina	1998-2012	15		1834	2698	92.2	0.5	3.4	10.4	22.7	145.8	154.5
USA, South Carolina, API	1998-2012	15		20	27	NP	NP	NP	NP	NP	NP	NP
USA, South Carolina, Black	1998-2012	15		510	753	91.2	0.7	4.1	7.3	21.7	112.0	119.0
USA, South Carolina, Hispanic White	1998-2012	15		85	109	94.5	0.0	2.8	10.6	23.1	141.9	142.0
USA, South Carolina, Native American	1998-2012	15		1	2	NP	NP	NP	NP	NP	NP	NP
USA, South Carolina, NH White	1998-2012	15		1186	1764	92.7	0.4	3.3	11.6	23.1	164.4	175.0
USA, South Dakota	2001-2012	12		257	404	88.9	1.7	2.2	12.1	22.1	133.2	149.2
USA, South Dakota, API	2001-2012	12		2	2	NP	NP	NP	NP	NP	NP	NP
USA, South Dakota, Black	2001-2012	12		6	6	NP	NP	NP	NP	NP	NP	NP
USA, South Dakota, Hispanic White	2001-2012	12		4	6	NP	NP	NP	NP	NP	NP	NP
USA, South Dakota, Native American	2001-2012	12		36	50	86.0	6.0	4.0	13.9	33.3	NP	127.4
USA, South Dakota, NH White	2001-2012	12		207	337	89.3	0.9	2.1	11.1	19.7	137.6	156.4
USA, Tennessee	1999-2012	14		2664	3901	93.2	0.2	3.5	11.0	27.5	164.0	175.0
USA, Tennessee, API	1999-2012	14		30	42	NP	NP	NP	NP	NP	NP	NP
USA, Tennessee, Black	1999-2012	14		520	721	92.4	0.3	4.4	9.8	30.0	143.4	146.6
USA, Tennessee, Hispanic White	1999-2012	14		109	140	93.6	0.7	3.6	17.4	23.8	129.4	133.3
USA, Tennessee, Native American	1999-2012	14		5	7	NP	NP	NP	NP	NP	NP	NP

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
USA, Tennessee, NH White	1999-2012	14		1931	2897	93.4	0.2	3.2	11.0	27.3	169.2	182.7
USA, Texas	1998-2012	15		13808	19914	89.8	0.7	5.1	11.4	25.2	177.9	190.1
USA, Texas, API	1998-2012	15		265	384	90.4	0.8	4.7	9.4	25.6	93.5	103.0
USA, Texas, Black	1998-2012	15		1384	1976	88.4	0.9	4.9	9.7	29.0	131.7	138.3
USA, Texas, Hispanic White	1998-2012	15		6131	8467	90.1	0.7	5.2	11.4	27.0	180.1	189.7
USA, Texas, Native American	1998-2012	15		41	60	86.7	1.7	1.7	4.9	23.1	NP	57.0
USA, Texas, NH White	1998-2012	15		5606	8483	90.2	0.6	5.0	11.9	22.1	190.3	206.5
USA, Utah	1993-2012	20		1965	2917	96.2	0.0	1.9	12.5	0.0	157.6	172.5
USA, Utah, API	1993-2012	20		41	52	98.1	0.0	1.9	7.3	0.0	NP	106.7
USA, Utah, Black	1993-2012	20		21	31	NP	NP	NP	NP	NP	NP	NP
USA, Utah, Hispanic White	1993-2012	20		263	367	97.0	0.0	1.6	11.8	0.0	174.7	190.5
USA, Utah, Native American	1993-2012	20		26	29	NP	NP	NP	NP	NP	NP	NP
USA, Utah, NH White	1993-2012	20		1612	2435	96.0	0.0	1.9	12.3	0.0	158.5	174.7
USA, Utah, White	1993-2012	20		1875	2802	96.1	0.0	1.9	12.2	0.0	160.7	176.8
USA, Vermont	1998-2012	15		268	448	92.6	0.2	2.9	8.6	35.3	164.7	184.9
USA, Vermont, API	1998-2012	15		1	3	NP	NP	NP	NP	NP	NP	NP
USA, Vermont, Black	1998-2012	15		1	2	NP	NP	NP	NP	NP	NP	NP
USA, Vermont, Hispanic White	1998-2012	15		0	-	NP	NP	NP	NP	NP	NP	-
USA, Vermont, Native American	1998-2012	15		0	-	NP	NP	NP	NP	NP	NP	-
USA, Vermont, NH White	1998-2012	15		262	435	92.4	0.2	3.0	8.8	35.8	171.1	190.8
USA, Virginia	1998-2012	15		3248	4727	94.0	0.7	3.1	10.3	19.2	149.8	158.5
USA, Virginia, API	1998-2012	15		108	153	93.5	2.0	3.3	10.2	18.2	87.1	93.7
USA, Virginia, Black	1998-2012	15		571	851	91.1	0.6	3.8	8.4	23.0	108.9	116.6
USA, Virginia, Hispanic White	1998-2012	15		232	306	94.4	1.3	3.6	11.6	19.1	136.2	139.3
USA, Virginia, Native American	1998-2012	15		2	4	NP	NP	NP	NP	NP	NP	NP
USA, Virginia, NH White	1998-2012	15		2183	3189	94.9	0.6	2.8	10.8	18.9	163.2	171.9
USA, Washington State	1998-2012	15		3222	4910	91.0	0.2	1.9	10.2	25.3	174.8	192.5
USA, Washington State, API	1998-2012	15		192	285	92.6	0.0	1.8	9.9	25.0	128.2	137.6
USA, Washington State, Black	1998-2012	15		163	204	91.7	0.0	2.5	8.0	26.5	140.1	134.2
USA, Washington State, Hispanic White	1998-2012	15		388	537	89.8	0.6	1.9	10.3	25.6	145.5	157.4
USA, Washington State, Native American	1998-2012	15		68	106	91.5	0.0	0.9	4.4	25.8	126.0	143.6
USA, Washington State, NH White	1998-2012	15		2254	3559	91.6	0.2	1.9	10.2	24.1	179.6	200.0

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0	Non-	ASR per million	
				0-14	0-19				in 0-14 %	malignant %	0-14	0-19
USA, Washington, Seattle	1993-2012	20		2681	3956	93.9	0.0	1.5	9.6	0.0	168.2	181.9
USA, Washington, Seattle, API	1993-2012	20		237	336	94.9	0.0	1.2	8.9	0.0	146.7	152.1
USA, Washington, Seattle, Black	1993-2012	20		168	218	95.0	0.0	2.8	11.3	0.0	136.9	136.1
USA, Washington, Seattle, Hispanic White	1993-2012	20		226	303	93.7	0.0	1.3	9.7	0.0	157.7	166.5
USA, Washington, Seattle, Native American	1993-2012	20		63	84	92.9	0.0	0.0	4.8	0.0	159.7	157.9
USA, Washington, Seattle, NH White	1993-2012	20		1960	2981	93.9	0.0	1.5	9.6	0.0	174.0	191.1
USA, Washington, Seattle, White	1993-2012	20		2186	3284	93.9	0.0	1.5	9.6	0.0	172.1	188.6
USA, West Virginia	1998-2012	15		754	1157	93.9	0.5	2.0	11.7	22.5	162.0	175.3
USA, West Virginia, API	1998-2012	15		3	7	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
USA, West Virginia, Black	1998-2012	15		30	34	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
USA, West Virginia, Hispanic White	1998-2012	15		4	7	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
USA, West Virginia, NH White	1998-2012	15		711	1100	94.1	0.5	2.0	11.4	23.3	164.5	179.0
USA, Wisconsin	1998-2012	15		2705	4197	94.5	0.6	3.2	10.3	21.5	170.6	187.0
USA, Wisconsin, API	1998-2012	15		85	107	93.5	0.0	2.8	7.1	17.6	164.1	153.6
USA, Wisconsin, Black	1998-2012	15		196	272	93.8	1.8	4.4	12.8	15.8	119.2	124.6
USA, Wisconsin, Hispanic White	1998-2012	15		140	218	92.7	0.0	1.4	12.9	31.0	115.9	142.9
USA, Wisconsin, Native American	1998-2012	15		42	55	94.5	0.0	1.8	11.9	17.6	<i>NP</i>	157.5
USA, Wisconsin, NH White	1998-2012	15		2073	3344	94.9	0.7	3.3	9.8	21.0	170.3	189.3
USA, Wyoming	1998-2012	15		225	341	91.5	0.0	3.8	9.8	17.8	147.1	157.8
USA, Wyoming, API	1998-2012	15		2	4	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
USA, Wyoming, Black	1998-2012	15		4	6	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
USA, Wyoming, Hispanic White	1998-2012	15		18	23	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
USA, Wyoming, Native American	1998-2012	15		8	14	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
USA, Wyoming, NH White	1998-2012	15		193	294	90.5	0.0	3.4	10.4	17.1	152.7	162.8

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
ASIA												
BAHRAIN	1998-2012	15		366	481	92.9	0.6	13.1	9.0	23.9	118.8	120.2
CHINA, 6 registries	1990-2013	24		7064	11188	92.4	NP	21.2	9.6	17.6	131.9	135.0
CHINA, Beijing	2000-2013	14		1982	3161	92.0	0.4	15.4	10.3	10.0	124.3	121.9
CHINA, Dalian	2003-2012	10		280	453	80.8	7.1	26.9	8.6	15.7	142.5	145.6
CHINA, Guangzhou	2010-2012	3		484	768	91.8	0.4	12.9	7.9	23.0	149.4	154.5
CHINA, Hong Kong	1990-2013	24		3369	5033	94.1	0.3	27.0	10.2	16.4	144.6	148.1
CHINA, Shanghai	2002-2012	11		635	1278	90.5	1.4	17.7	7.9	29.8	114.4	128.1
CHINA, Zhongshan	2003-2012	10		314	495	93.5	0.0	15.4	5.4	29.8	88.2	105.1
INDIA, 7 registries	1990-2013	24		16240	22670	93.8	NP	15.5	2.9	0.0	96.9	97.9
INDIA, Bangalore	1993-2011	19		2164	2954	95.5	1.9	12.9	0.3	0.0	72.7	72.4
INDIA, Chennai	1993-2013	21		2531	3464	92.5	2.0	12.8	3.7	0.0	119.9	118.2
INDIA, Kollam	2006-2012	7		393	586	92.7	2.6	16.0	1.8	0.0	97.4	106.5
INDIA, Mumbai	1993-2012	20		5219	7300	95.6	1.0	14.6	3.1	0.0	86.5	86.2
INDIA, Nagpur	1990-2012	23		1403	2071	88.7	1.8	23.9	3.3	0.0	104.2	112.3
INDIA, New Delhi	2003-2010	8		4320	5981	93.6	0.1	16.8	3.5	0.0	117.6	120.2
INDIA, Trivandrum	2005-2012	8		210	314	92.4	0.6	11.8	0.0	0.0	100.6	110.3
IRAN, Golestan	2004-2011	8		360	618	87.4	3.6	26.7	2.8	0.0	99.8	111.7
ISRAEL	1990-2012	23		6229	9022	92.1	0.5	7.8	11.0	16.4	152.0	169.3
ISRAEL, Jews	1990-2012	23		4636	6886	92.1	0.4	7.3	10.5	15.4	155.6	175.2
ISRAEL, Non-Jews	1990-2012	23		1593	2136	92.1	0.9	9.3	12.2	19.7	142.4	151.8
JAPAN, 8 registries	1990-2013	24		7755	10564	89.8	NP	8.5	14.6	32.2	134.3	130.1
JAPAN, Aichi	2008-2012	5		627	844	91.2	0.1	7.3	11.0	39.7	122.0	121.2
JAPAN, Hiroshima	1990-2012	23		565	824	91.5	0.7	4.0	16.1	44.9	144.4	147.7
JAPAN, Miyagi	1990-2010	21		950	1334	94.5	0.7	7.3	13.3	32.5	131.6	128.4
JAPAN, Nagasaki	1993-2012	20		567	823	91.7	0.4	4.9	14.3	46.8	129.6	132.1
JAPAN, Niigata	2003-2012	10		399	563	96.1	0.4	2.5	14.0	28.6	132.5	134.2
JAPAN, Osaka	1990-2012	23		3971	5193	86.9	0.8	10.5	16.3	27.3	142.5	133.1
JAPAN, Tochigi	2005-2012	8		271	378	88.9	1.6	9.5	11.4	38.2	128.6	130.6
JAPAN, Yamagata	1990-2013	24		405	605	92.6	3.1	12.6	8.6	19.2	95.6	101.9
JORDAN	2000-2012	13		3881	5444	97.0	0.1	4.7	1.8	0.5	145.0	156.4
REPUBLIC OF KOREA	1999-2012	14		16312	24079	91.8	1.3	8.6	11.7	0.0	135.9	141.6

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
REPUBLIC OF KOREA, Busan	1999-2012	14		1004	1586	90.2	1.3	9.6	11.0	0.0	129.7	135.6
REPUBLIC OF KOREA, Daegu	1999-2012	14		850	1304	91.7	0.8	9.7	11.4	0.0	138.1	145.6
REPUBLIC OF KOREA, Daejeon	1999-2012	14		511	755	91.1	1.1	8.5	10.8	0.0	133.1	138.8
REPUBLIC OF KOREA, Gwangju	1997-2012	16		714	1027	90.4	1.7	7.6	11.8	50.3	158.7	161.8
REPUBLIC OF KOREA, Incheon	1998-2012	15		1061	1558	89.8	0.6	8.0	10.4	47.3	140.9	147.7
REPUBLIC OF KOREA, Jeju	2000-2012	13		204	292	90.8	0.7	8.9	7.8	0.0	140.5	148.4
REPUBLIC OF KOREA, Seoul	1995-2012	18		4182	6274	90.9	2.0	10.0	13.3	0.0	135.7	140.4
REPUBLIC OF KOREA, Ulsan	2001-2012	12		340	491	94.1	0.8	6.1	10.6	0.0	134.0	137.8
KUWAIT	1994-2012	19		1360	1798	91.8	5.6	7.1	9.2	24.9	112.8	117.8
KUWAIT, Kuwaitis	1994-2012	19		797	1070	92.1	5.4	7.0	9.4	26.2	112.3	119.7
KUWAIT, Non-Kuwaitis	1994-2012	19		563	728	91.3	5.9	7.1	8.9	22.2	113.6	115.3
LEBANON	2008-2010	3		505	765	100.0	-	5.6	2.0	0.0	141.2	156.5
PAKISTAN, Karachi	1995-2002	8		545	840	96.2	0.7	11.5	1.5	0.0	94.3	119.1
PAKISTAN, Lahore	2008-2012	5		1406	1891	97.9	-	10.9	2.3	29.9	75.6	78.8
PHILIPPINES, 2 registries	1993-2012	20		8826	12052	85.1	NP	20.1	6.5	0.5	118.3	121.9
PHILIPPINES, Manila	1993-2012	20		4393	6039	86.3	6.7	16.3	6.5	0.0	127.0	130.6
PHILIPPINES, Rizal	1993-2012	20		4433	6013	83.9	7.6	23.9	6.6	0.9	110.8	114.3
QATAR	2002-2014	13		301	430	96.5	1.2	6.5	9.0	16.0	102.4	115.7
SAUDI ARABIA, Riyadh	1994-2012	19		3921	5317	97.0	0.4	3.0	8.2	0.0	118.2	127.7
SAUDI ARABIA, Riyadh, Non-Saudis	1994-2012	19		754	970	95.9	0.6	3.5	6.8	0.0	133.3	143.2
SAUDI ARABIA, Riyadh, Saudis	1994-2012	19		3167	4347	97.3	0.3	2.9	8.5	0.0	115.1	124.8
THAILAND, 6 registries	1993-2013	21		4260	6155	89.2	NP	20.9	5.9	5.3	111.4	112.7
THAILAND, Bangkok	2001-2012	12		1444	2125	90.1	1.8	24.6	2.4	5.3	112.1	112.1
THAILAND, Chiang Mai	1993-2012	20		666	958	88.1	2.9	15.8	6.6	15.6	118.3	119.8
THAILAND, Chonburi	1998-2012	15	+	491	694	90.8	2.6	25.2	6.3	1.3	133.7	138.8
THAILAND, Khon Kaen	1993-2012	20		732	994	87.8	2.2	17.9	8.7	0.0	103.1	100.2
THAILAND, Lampang	1993-2013	21		318	492	87.4	3.0	23.4	7.5	0.0	113.9	121.7
THAILAND, Songkhla	1994-2013	20		609	892	89.9	2.5	16.0	9.2	4.6	99.1	103.7
TURKEY, paediatric	2009-2011	3		5251	-	94.2	-	1.2	8.6	22.6	96.4	-
TURKEY, 8 registries	1992-2012	21		5999	8663	94.9	NP	5.0	8.6	35.1	157.2	163.8
TURKEY, Ankara	2008-2012	5		910	1362	99.6	0.0	2.9	10.8	23.1	175.6	192.1
TURKEY, Antalya	1998-2012	15		946	1293	94.4	0.3	4.9	8.2	36.9	160.1	162.1

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
TURKEY, Bursa	2004-2012	9		679	958	93.0	0.0	7.3	8.0	37.5	137.6	142.1
TURKEY, Edirne	2004-2012	9		88	133	97.0	0.0	3.8	9.1	30.8	153.8	158.8
TURKEY, Erzurum	2006-2012	7		248	370	86.8	0.0	12.7	6.5	38.5	154.1	170.6
TURKEY, İzmir	1992-2012	21		2413	3534	94.5	0.9	4.7	8.2	35.2	156.1	162.7
TURKEY, Samsun	2003-2012	10		468	624	96.2	0.0	3.8	10.0	39.4	161.1	155.8
TURKEY, Trabzon	2003-2012	10		247	389	93.3	0.3	5.1	6.1	48.6	156.2	168.5
VIET NAM, Ho Chi Minh City	1995-2013	19		2718	3552	84.5	-	25.3	6.7	5.5	116.0	106.5
EUROPE												
AUSTRIA	1990-2012	23		4578	6848	97.3	1.6	5.4	10.3	25.9	154.0	165.2
BELARUS, paediatric	1990-2014	25		6863	10294	96.7	0.2	4.2	7.0	27.5	157.0	164.5
BELGIUM	2004-2013	10	+	3426	5201	96.6	-	1.9	11.6	52.7	191.6	211.1
BULGARIA	1990-2013	24		3533	5274	90.7	5.5	11.6	6.5	7.1	120.8	124.6
CROATIA	2001-2014	14		1738	2572	90.8	0.2	13.6	7.6	34.7	193.9	202.9
CYPRUS, South-West	1998-2012	15		360	615	93.7	2.1	4.1	9.7	0.0	166.6	193.8
CZECH REPUBLIC	1990-2012	23		6301	9642	93.1	1.4	7.6	10.1	25.0	165.7	173.5
ESTONIA	1990-2012	23	+	819	1239	95.0	0.5	5.9	8.7	34.8	146.6	156.1
FRANCE, paediatric	2000-2012	13		22584	-	94.6	-	1.5	10.8	44.5	157.6	-
FRANCE, paediatric specialized	1990-1999	10		4628	-	NP	-	1.5	5.7	0.0	43.3	-
FRANCE, 13 registries	1993-2012	20		4822	7204	96.6	NP	2.3	10.1	40.3	158.4	171.2
FRANCE, Bas-Rhin	1993-2011	19	+	589	872	95.5	-	2.9	10.2	40.9	162.8	174.5
FRANCE, Calvados	1990-2012	23		404	625	97.8	-	4.2	7.9	35.3	140.9	154.7
FRANCE, Doubs	1993-2012	20		298	462	97.0	-	3.7	10.1	41.8	155.2	171.4
FRANCE, Gironde	2008-2012	5		208	317	95.6	-	1.3	12.5	46.8	167.4	182.9
FRANCE, Haut-Rhin	1993-2012	20		386	594	98.1	-	2.0	7.5	40.0	141.0	161.1
FRANCE, Hérault	1993-2012	20		568	821	97.0	-	1.1	11.6	33.0	177.9	183.1
FRANCE, Isère	1993-2012	20		767	1100	96.7	-	1.6	10.4	44.2	173.6	182.7
FRANCE, Lille	2008-2012	5		124	192	96.9	-	0.5	15.3	36.7	170.4	187.4
FRANCE, Limousin	2009-2011	3		26	43	NP	NP	NP	NP	NP	NP	NP
FRANCE, Loire-Atlantique and Vendée	1998-2012	15		767	1181	97.0	-	2.5	12.1	51.0	152.2	170.6
FRANCE, Manche	1994-2012	19		255	370	96.8	-	2.4	8.6	41.0	152.0	162.3
FRANCE, Somme	1993-2012	20		281	425	95.1	-	1.6	8.9	0.0	136.0	146.4
FRANCE, Tarn	1993-2012	20		185	263	94.7	-	4.2	4.3	54.1	157.0	163.6

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
GERMANY, paediatric	1996-2012	17		30770	-	95.5	-	1.1	10.3	41.3	158.5	-
GERMANY, 6 Eastern registries	2001-2007	7		1839	3230	94.9	2.6	4.8	12.3	0.0	141.2	150.9
GERMANY, 5 Western registries	1994-2012	19		7471	11480	91.3	NP	3.2	9.3	29.7	157.5	170.4
GERMANY, Bavaria	2002-2012	11		3038	4695	92.9	2.1	4.3	10.0	32.9	156.0	169.6
GERMANY, Lower Saxony	2003-2012	10		1720	2726	92.9	1.1	2.7	8.6	0.0	152.4	167.7
GERMANY, Rhine-Pfalz	1998-2012	15	+	1454	2079	86.3	2.3	2.7	9.2	44.6	166.9	170.4
GERMANY, Saarland	1994-2012	19		428	659	95.6	1.1	3.0	8.4	26.5	160.8	173.7
GERMANY, Schleswig-Holstein	2000-2012	13		831	1321	88.2	1.8	1.7	8.9	35.8	157.1	177.2
GREECE, paediatric specialized	1996-2014	19	+	2411	-	98.5	-	0.8	3.4	30.2	79.0	-
HUNGARY, paediatric	1991-2014	24		5705	-	97.3	-	0.5	10.8	32.0	149.6	-
ICELAND	1990-2014	25	+	228	376	96.0	0.0	4.8	8.8	40.9	141.3	170.3
IRELAND	1994-2012	19		2473	3781	94.4	0.2	3.8	9.6	39.0	152.8	168.0
ITALY, 2 paediatric registries	1998-2011	14		1610	2414	96.3	NP	1.4	10.2	46.4	195.4	214.3
ITALY, Marche, paediatric	1998-2007	10		362	559	96.8	0.0	1.1	13.5	19.1	195.3	214.4
ITALY, Piedmont, paediatric	1990-2011	22		2178	-	96.0	0.0	2.6	9.5	49.0	190.0	-
ITALY, Piedmont, paediatric	2000-2011	12		1248	1855	96.1	0.0	1.6	9.3	53.9	195.6	214.4
ITALY, 26 registries	1992-2013	22		7517	11663	91.9	NP	8.4	9.3	37.8	186.1	206.2
ITALY, Biella	1995-2010	16		81	137	97.1	0.0	1.5	8.6	47.1	194.0	230.8
ITALY, Brescia	1999-2012	14		367	559	80.3	1.1	17.5	10.6	0.0	166.7	190.4
ITALY, Catania	2003-2013	11		657	1044	85.1	0.1	18.0	6.7	73.3	204.7	226.4
ITALY, Catanzaro	2003-2009	7		53	85	94.1	0.0	4.7	11.3	33.3	168.5	183.3
ITALY, Como	2003-2011	9		137	229	92.6	0.0	4.8	10.9	57.1	195.8	240.4
ITALY, Ferrara	1991-2011	21		146	240	85.4	0.8	11.7	11.6	40.5	204.6	228.7
ITALY, Friuli-Venezia Giulia	1995-2010	16		397	620	93.5	0.0	6.0	11.1	0.0	179.9	203.2
ITALY, Lecco	2003-2010	8		64	92	97.8	0.0	5.4	7.8	53.8	176.5	188.5
ITALY, Lodi and Pavia	2003-2009	7		120	187	87.7	0.0	12.8	9.2	11.8	185.3	213.7
ITALY, Milan	1999-2007	9		246	356	94.9	0.0	4.5	9.8	25.4	192.4	210.6
ITALY, Modena	1990-2012	23		335	503	95.4	0.6	4.0	11.9	38.7	179.1	193.3
ITALY, Naples	1996-2012	17		469	727	94.2	0.1	5.9	9.2	48.2	204.2	225.2
ITALY, Nuoro	2003-2012	10		56	99	90.9	0.0	3.0	7.1	71.4	189.2	226.9
ITALY, Parma	1992-2013	22		220	325	95.7	0.0	6.2	12.7	38.3	207.1	222.7
ITALY, Ragusa	1992-2012	21		239	364	90.1	0.0	10.4	6.7	48.2	182.7	196.5

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
ITALY, Reggio Emilia	1996-2012	17		207	313	96.8	0.3	2.9	9.2	45.6	181.0	206.8
ITALY, Romagna	1990-2012	23		541	832	88.9	0.2	10.8	9.4	50.9	191.5	208.3
ITALY, Salerno	1997-2009	13		428	698	86.0	0.1	16.8	9.6	10.1	184.3	209.0
ITALY, Sassari	1992-2011	20		223	381	89.5	2.4	15.7	6.7	31.0	174.7	198.1
ITALY, Syracuse	1999-2012	14		129	213	94.8	0.0	8.5	7.0	0.0	153.5	174.3
ITALY, Trapani	2002-2009	8		86	137	93.4	0.0	7.3	7.0	25.0	165.3	185.0
ITALY, Trento	2001-2010	10		118	172	88.4	0.0	13.4	7.6	16.1	157.8	173.4
ITALY, Turin	1992-2012	21		357	540	96.7	0.0	4.3	8.7	0.0	166.5	180.8
ITALY, Umbria	1994-2011	18		402	610	96.2	0.0	6.4	10.7	26.9	217.9	234.2
ITALY, Varese	1992-2012	21		456	672	96.3	0.1	2.1	9.0	31.5	197.5	208.0
ITALY, Veneto	1992-2009	18		1035	1629	95.6	0.2	3.4	9.1	35.4	175.7	196.6
LITHUANIA	2000-2012	13		880	1400	94.1	1.3	6.9	9.2	6.8	133.5	140.3
MALTA	1994-2013	20		247	352	97.4	0.0	1.4	6.5	13.2	177.7	179.8
THE NETHERLANDS	1993-2013	21		9227	13816	95.9	-	1.9	9.3	43.9	154.5	170.7
NORWAY	1990-2013	24		3410	5090	94.1	0.1	7.5	11.0	51.6	165.2	181.9
POLAND	2001-2013	13		10205	16155	92.3	0.4	10.3	9.6	7.6	132.8	140.3
POLAND, Greater Poland	1999-2013	15		1264	2057	94.4	0.1	8.2	6.2	1.9	149.2	161.7
POLAND, Kielce	1990-2013	24		681	1048	92.0	0.0	12.2	4.8	4.2	131.6	138.4
POLAND, Lower Silesia	2000-2013	14		655	1096	96.8	0.0	5.0	9.9	0.0	111.7	122.4
POLAND, Lublin	1999-2013	15		799	1252	87.6	1.0	13.9	10.6	4.6	152.9	158.9
PORTUGAL	1991-2012	22		4339	6448	96.3	NP	4.2	8.8	35.1	164.6	173.8
PORTUGAL, Azores	1997-2011	15		117	198	96.0	0.0	2.5	6.8	11.1	160.4	188.5
PORTUGAL, Centre	2000-2010	11		658	969	91.8	-	5.7	9.0	33.1	174.2	181.7
PORTUGAL, North	1991-2010	20		1708	2575	97.2	-	4.8	8.8	35.1	154.7	162.7
PORTUGAL, South	1998-2012	15		1856	2706	97.0	-	3.1	8.9	37.1	171.9	182.1
RUSSIAN FEDERATION, Moscow region, paediatric	2000-2009	10		1176	-	93.9	-	2.7	7.3	37.0	139.8	-
RUSSIAN FEDERATION, 2 registries	1998-2015	18		1545	2285	98.8	NP	5.0	12.4	2.6	141.1	142.1
RUSSIAN FEDERATION, Chelyabinsk	2008-2012	5		394	539	98.5	-	7.6	9.4	5.3	148.3	144.6
RUSSIAN FEDERATION, Samara	1998-2015	18		1151	1746	98.9	0.8	4.2	13.4	1.6	139.7	141.9
SLOVAKIA	1990-2009	20	+	2955	4574	96.4	1.4	5.2	9.7	33.6	145.8	154.7
SLOVAKIA, paediatric	2000-2012	13		1626	-	95.9	-	3.4	10.5	33.9	144.6	-
SLOVENIA	1991-2012	22		971	1535	98.6	0.0	2.4	8.4	22.1	144.2	155.9

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
SPAIN, 2 paediatric registries	1991-2013	23		7496	-	92.2	NP	1.9	11.2	31.2	159.2	-
SPAIN, Selected regions, paediatric	2000-2013	14		5292	-	91.5	-	1.8	11.4	32.3	155.1	-
SPAIN, Valencia, paediatric	1991-2010	20		2204	-	94.1	0.0	2.4	10.8	28.8	171.3	-
SPAIN, 11 registries	1990-2013	24		5081	7839	95.4	NP	4.4	9.8	32.1	164.3	174.6
SPAIN, Albacete	1991-2010	20		190	286	95.8	0.3	3.5	13.7	33.3	159.8	166.9
SPAIN, Asturias	1992-2010	19		350	561	96.8	0.4	4.3	8.3	30.7	155.3	161.9
SPAIN, Balearic Islands	1990-2012	23		407	621	96.1	0.0	2.6	11.1	24.8	157.1	169.9
SPAIN, Basque Country	1990-2012	23		1131	1728	94.1	0.6	7.3	10.5	40.3	178.6	185.9
SPAIN, Canary Islands	1993-2011	19		677	1064	94.9	0.6	4.3	8.0	37.8	147.3	157.8
SPAIN, Cuenca	1993-2012	20		96	155	89.7	0.0	11.0	8.3	44.1	174.1	191.5
SPAIN, Girona	1990-2013	24		403	594	96.6	0.3	2.2	10.2	40.3	178.1	187.9
SPAIN, Granada	1992-2013	22		472	753	94.6	0.3	5.0	7.4	40.0	146.1	162.0
SPAIN, Murcia	1991-2009	19		686	1033	96.6	0.2	2.7	9.2	0.0	166.9	175.9
SPAIN, Navarra	1990-2010	21	+	295	475	95.8	0.8	2.7	11.5	30.1	176.2	193.6
SPAIN, Tarragona	1990-2011	22		374	569	96.7	0.4	2.6	11.2	23.1	172.1	183.8
SWEDEN	1990-2011	22		5284	7557	96.6	-	7.1	10.2	37.8	155.3	162.2
SWITZERLAND, paediatric	1990-2013	24		4481	-	93.6	0.2	1.6	9.8	41.1	159.2	-
SWITZERLAND, 7 registries	1990-2013	24		1791	2665	96.8	NP	2.9	9.5	46.2	172.4	187.6
SWITZERLAND, Fribourg	2006-2013	8		85	120	93.3	0.0	3.3	9.4	55.6	225.0	228.3
SWITZERLAND, Geneva	1993-2013	21		223	345	94.8	0.0	1.7	8.1	59.3	154.2	175.4
SWITZERLAND, Neuchâtel	1993-2013	21		106	163	98.2	0.6	1.8	9.4	42.9	185.3	205.0
SWITZERLAND, Ticino	1996-2012	17		129	201	99.5	0.0	1.0	10.1	28.9	171.8	192.8
SWITZERLAND, Valais	1990-2012	23	+	178	270	96.3	0.4	4.1	5.1	30.2	160.4	175.1
SWITZERLAND, Vaud	1993-2012	20		382	520	98.7	0.6	2.1	9.4	40.7	177.9	179.0
SWITZERLAND, Zurich	1993-2013	21		688	1046	96.5	0.2	3.8	11.0	51.0	172.8	193.0
UKRAINE	2002-2012	11		10079	16358	94.5	0.2	10.7	9.8	0.0	139.6	146.8
UK	2000-2011	12		17942	26346	93.1	NP	3.7	9.5	31.4	140.5	149.5
UK, England	1990-2013	24		29819	42512	91.0	0.3	4.2	9.4	25.2	137.7	145.0
UK, England and Wales, paediatric	1991-2010	20		27799	-	91.3	0.4	2.5	9.2	39.3	145.8	-
UK, Northern Ireland	1993-2013	21		1132	1678	85.6	0.1	12.1	9.8	35.1	151.9	163.6
UK, Scotland	1991-2013	23		2945	4477	94.0	0.1	3.5	9.9	48.6	146.6	160.4
UK, Wales	2000-2011	12		923	1415	82.9	0.4	8.9	8.9	45.7	150.9	164.1

Indicators of data quality



Dataset	Period	Years	0-14 only	Number of cases		MV %	DCO %	NOS %	Age 0 in 0-14 %	Non-malignant %	ASR per million	
				0-14	0-19						0-14	0-19
OCEANIA												
AUSTRALIA	1992-2014	23		13190	20508	95.2	NP	2.5	10.3	8.9	154.9	175.1
AUSTRALIA, Indigenous	1992-2014	23		249	336	93.2	NP	1.8	15.3	15.4	105.4	112.4
AUSTRALIA, Australian Capital Territory	1992-2012	21		214	336	93.2	0.0	1.8	10.7	0.0	160.7	177.0
AUSTRALIA, New South Wales	1992-2012	21		4022	6230	95.0	0.0	2.2	11.4	0.0	149.2	169.0
AUSTRALIA, Northern Territory	1992-2012	21		122	182	94.5	0.0	2.2	18.9	0.0	116.9	133.4
AUSTRALIA, Northern Territory, Indigenous	1992-2012	21		44	62	95.2	0.0	3.2	18.2	0.0	NP	105.9
AUSTRALIA, Queensland	1992-2013	22		2548	4204	93.9	0.2	1.3	9.5	0.0	150.9	180.3
AUSTRALIA, Queensland, Indigenous	1992-2013	22		118	156	92.3	0.6	1.3	11.9	0.0	91.3	96.6
AUSTRALIA, South Australia	1992-2012	21		887	1388	97.1	0.0	1.0	9.8	0.0	149.8	168.5
AUSTRALIA, Tasmania	1992-2013	22		325	490	95.3	0.0	1.0	6.8	43.8	152.3	167.7
AUSTRALIA, Victoria	1992-2014	23		3450	5179	96.0	0.1	4.7	9.4	0.0	159.5	174.3
AUSTRALIA, Western Australia	1992-2014	23		1622	2499	95.6	0.2	2.0	10.9	42.4	174.9	195.7
AUSTRALIA, Western Australia, Indigenous	1992-2014	23		87	118	93.2	0.8	1.7	18.4	30.8	140.8	149.8
FRANCE, 2 registries	1990-2013	24		376	523	94.5	NP	8.2	10.4	21.3	127.0	132.0
FRANCE, French Polynesia	1990-2011	22	+	171	240	90.0	0.8	13.3	8.8	0.0	110.3	115.8
FRANCE, New Caledonia	1990-2013	24		205	283	98.2	0.0	3.9	11.7	33.3	145.2	149.6
NEW ZEALAND	1993-2012	20	+	2599	3860	96.2	0.6	3.2	10.3	0.0	152.1	166.5
NEW ZEALAND, API	1993-2012	20	+	286	394	94.9	1.0	5.1	10.5	0.0	186.8	199.5
NEW ZEALAND, Maori	1993-2012	20		567	810	96.4	0.7	3.2	11.1	0.0	132.5	147.9
NEW ZEALAND, Other	1993-2012	20		1746	2656	96.3	0.5	2.9	10.0	0.0	155.3	169.2
NEW ZEALAND, paediatric	2000-2012	13		1768	-	95.5	0.1	1.9	10.5	40.6	157.4	-
NEW ZEALAND, paediatric, Maori	2000-2012	13		360	-	95.6	0.3	1.7	9.7	35.1	127.0	-
NEW ZEALAND, paediatric, Non-Maori	2000-2012	13		1408	-	95.5	0.0	2.0	10.7	41.9	167.9	-

API, Asian and Pacific Islander

DCO, death certificate only

MV, microscopic verification

NH White, Non-Hispanic White

NOS, unspecified

NP, not provided

NPCR, National Program of Cancer Registries

SEER, Surveillance, Epidemiology and End Results Program

[International Agency for Research on Cancer](http://www.iairc.org)