

Table A.9. Characteristics and quality indicators of the datasets included in IICC-3

IICC-3, International Incidence of Childhood Cancer, volume 3. Datasets listed are those with a sufficient number of cases and selected for the printed publication (see Table A.12). The data for race or ethnic groups in individual US states are available online. The colour code of the tabulated values is explained in Chapter 4, Figure 4.1.

Column headers: ASR, Age-standardized incidence rate (World standard); CNS, central nervous system; DCO, death certificate only; M/F, sex-specific ASR ratio; MV, microscopic verification; N, number; age is given in years;

% refers to the total number of included cases, unless specified otherwise; III and Xa are the categories of the the International Classification of Childhood Cancer (IICC-3-2017).

Dataset column: API, Asian Pacific Islander; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; SEER, Surveillance, Epidemiology and End Results; ^a the indicators refer only to haematological malignancies;

^b the indicators refer only to haematological malignancies (HM) in period 1996-2014 and CNS tumours in period 2010-2014; ^a and ^b: out-of-range indicators are not highlighted.

Body of the table: + applicable; — not applicable; † covered period varied between the constituent registries; ‡ access to death certificates varied between the constituent registries.

Non-malignant in CNS, registration of non-malignant CNS tumours: No, not collected; Non-systematic, reporting likely incomplete; Not provided, collected but not submitted to IICC-3; Selective, collecting selected categories or time periods; Yes, collected and reported.

Dataset (IICC-3 period)																			
Years covered	Age 0-14 only	Total number of cases		ASR per million		Age 0-14 in 0-14		Age 19 in 15-19		M/F by age		Basis of diagnosis				Unspecified morphology		Non-malignant in CNS (categories III and Xa)	
		age 0-14	age 0-19	age 0-14	age 0-19	%	%	0-14	15-19	%	%	MV	Clinical	DCO	Unknown	%	%	MV	%
N																			
AFRICA																			
+		1 658	2 640	96.3	107.1	3.3	62.8	23.9	1.4	1.1	91.5	6.5	1.7	0.3	20.1	13.3	4.7	Selective	
5		575	824	171.8	172.9	4.0	69.8	27.3	1.4	1.1	90.0	7.4	2.5	0.0	17.1	9.3	6.6	Non-systematic	
11		185	271	112.4	117.0	2.7	68.3	15.1	1.7	1.4	90.8	8.1	0.0	1.1	10.7	5.5	0.0	No	
5		127	211	76.5	87.0	7.9	60.2	20.2	1.6	1.0	85.3	14.7	0.0	0.0	15.2	3.8	0.0	Yes	
19		552	992	66.3	81.8	0.2	55.6	25.9	1.3	1.1	96.9	2.0	0.6	0.5	18.8	16.3	0.0	No	
9		219	342	94.4	107.7	6.8	64.0	18.7	1.4	1.0	83.9	10.8	5.3	0.0	41.5	26.0	11.3	Yes	
9		312	450	54.5	59.7	1.9	69.3	16.7	1.1	0.9	88.4	5.6	6.0	0.0	7.8	5.1	0.0	No	
3		298	373	125.0	124.5	1.7	79.9	25.3	1.5	1.0	70.5	29.0	0.5	0.0	10.5	3.8	0.0	Yes	
12		1812	2597	122.5	127.2	5.8	69.8	18.7	1.4	1.3	89.6	3.9	6.4	0.1	10.9	3.1	3.9	Yes	
22		459	657	106.2	113.3	6.8	69.9	19.2	1.1	1.5	92.8	4.7	2.4	0.0	4.9	1.8	0.0	No	
+		1 165	1 620	108.5	118.7	2.1	71.9	18.9	1.5	1.6	84.6	8.3	6.5	0.6	18.7	8.0	1.1	Selective	
12		514	721	124.9	140.7	0.8	71.3	16.9	1.5	1.2	85.3	5.8	7.5	1.4	19.1	10.7	4.3	Yes	
7		651	899	99.0	106.2	3.2	72.4	20.6	1.5	1.9	84.0	10.2	5.8	0.0	18.4	5.9	0.0	No	
6		318	420	110.1	108.2	4.1	75.7	22.5	1.3	1.1	87.6	9.0	2.1	1.2	27.6	20.0	8.9	Non-systematic	
10		1 158	1 470	159.3	150.9	1.4	78.8	18.3	1.5	1.7	70.4	28.3	1.0	0.3	33.6	11.1	3.7	Non-systematic	
13		369	551	101.1	109.4	1.1	67.0	18.7	1.3	1.4	85.5	14.5	0.0	0.0	38.7	24.1	0.0	No	
8		1 146	1 688	129.3	137.8	4.7	67.9	18.8	1.4	1.1	98.2	0.6	+	0.0	8.5	8.1	15.6	Selective	
8		996	1 496	126.4	137.2	4.1	66.6	19.4	1.3	1.1	100.0	0.0	—	0.0	9.0	9.0	14.6	Yes	
8		150	192	152.6	143.0	8.7	78.1	11.9	1.7	1.1	84.4	5.2	10.4	0.0	5.2	1.6	21.2	Selective	
15	+	9 694	—	45.6	—	8.3	—	—	—	1.3	—	91.5	8.4	—	0.0	3.5	1.1	6.5	Yes
15	+	285	—	78.3	—	6.3	—	—	—	1.3	—	96.5	3.5	—	0.0	1.1	0.0	8.3	Yes
15	+	6 984	—	39.0	—	8.0	—	—	—	1.3	—	90.2	9.8	—	0.0	4.0	1.3	7.4	Yes
15	+	1 302	—	71.5	—	9.8	—	—	—	1.2	—	93.6	6.4	—	0.0	3.3	0.8	4.9	Yes
15	+	1 122	—	100.6	—	9.2	—	—	—	1.2	—	96.3	3.7	—	0.0	1.7	0.5	4.5	Yes
+		1 830	2 712	97.8	104.3	2.9	67.5	21.3	1.3	1.1	97.3	2.7	—	0.0	5.7	3.2	9.4	Selective	
13		1 591	2 362	96.0	102.4	2.5	67.4	21.8	1.4	1.1	97.3	2.7	—	0.0	6.1	3.5	9.4	Selective	
15		239	350	111.1	118.2	5.9	68.3	18.0	1.2	1.0	97.1	2.9	—	0.0	2.6	1.1	10.0	Selective	
18		1 877	2 494	139.4	138.9	2.6	75.3	20.1	1.5	1.3	67.4	30.9	1.7	0.0	22.7	4.7	0.0	No	

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Dataset (IICC-3 period)																			
Years covered	Age 0-14 only	Total number of cases		ASR per million		Age 0-14		Age 15-19		M/F by age		Basis of diagnosis			Unspecified morphology		Non-malignant in CNS (categories III and Xa)		
		age 0-14	age 0-19	age 0-14	age 0-19	in 0-14	in 15-19	0-14	15-19	MV	Clinical	DCO	Unknown	%	%	%	%		
N						%	%	%	%										
19		1 082	1 454	126.3	126.2	5.6	74.4	20.7	1.3	1.6	77.6	17.0	5.4	0.0	16.9	5.2	6.0	Non-systematic	
AMERICA, LATIN AND THE CARIBBEAN																			
14	+	18 067	—	128.1	—	9.4	—	—	1.2	—	95.6	2.2	2.2	0.0	6.4	2.1	14.4	Yes	
+		2 951	4 071	137.5	140.4	9.0	72.5	23.4	1.2	1.3	94.0	3.4	2.1	0.4	11.3	7.2	11.7	Selective	
17		194	273	166.8	171.8	12.4	71.1	21.5	0.8	1.5	82.8	8.8	3.7	4.8	19.8	12.5	10.8	Selective	
11		473	618	133.5	130.5	7.0	76.5	23.4	1.2	1.3	94.8	4.4	0.8	0.0	12.6	9.7	1.0	Selective	
9		1 010	1 402	139.8	142.8	9.2	72.0	24.5	1.1	1.5	95.6	2.0	2.4	0.0	10.3	6.1	10.5	Yes	
11		409	555	121.5	123.4	7.3	73.7	20.5	1.3	1.1	94.2	2.5	3.2	0.0	14.8	9.2	1.3	Selective	
10		597	893	134.7	147.2	9.5	66.9	24.3	1.2	1.0	96.2	2.4	0.9	0.6	8.5	5.7	22.8	Yes	
11		268	330	153.8	143.4	10.8	81.2	21.0	1.3	1.4	88.8	7.3	3.9	0.0	7.9	3.6	18.2	Yes	
+		2 603	3 858	145.2	151.0	7.3	67.5	24.0	1.1	1.2	91.7	2.1	6.2	0.0	10.2	5.5	5.8	Selective	
17		269	414	122.1	131.4	5.2	65.0	29.7	1.3	1.0	91.3	4.1	4.6	0.0	8.7	1.4	7.2	Selective	
7		516	771	132.1	138.2	7.0	66.9	25.1	1.2	1.3	86.5	0.8	12.6	0.1	13.1	4.4	15.4	Selective	
13		816	1 192	160.4	165.5	8.3	68.5	23.1	1.1	1.3	91.8	1.7	6.5	0.0	6.4	3.3	6.2	Non-systematic	
17		754	1 114	157.6	163.0	7.6	67.7	23.3	1.2	1.1	94.2	2.2	3.7	0.0	7.5	4.8	0.0	No	
12		248	367	127.0	131.6	5.6	67.6	19.3	1.1	1.4	95.1	3.5	1.4	0.0	26.2	21.3	0.0	No	
5	+	2 380	—	131.5	—	9.5	—	—	1.2	—	93.4	4.0	2.6	0.0	5.4	1.6	16.4	Yes	
+		630	909	146.3	150.3	9.7	69.3	22.9	1.4	1.7	93.8	4.7	1.4	0.0	9.4	4.1	17.7	Yes	
8		140	186	130.0	127.8	12.1	75.3	26.1	1.5	1.6	94.1	2.2	3.8	0.0	14.0	8.6	0.0	Not provided	
10		125	174	141.7	142.5	12.8	71.8	28.6	1.5	1.8	93.1	6.9	0.0	0.0	9.2	2.9	24.1	Yes	
5		171	255	163.4	166.8	6.4	67.1	21.4	1.3	1.2	93.3	5.1	1.6	0.0	9.4	2.7	23.9	Yes	
15		194	294	149.5	160.1	8.8	66.0	20.0	1.3	2.4	94.6	4.8	0.7	0.0	6.5	3.1	13.9	Yes	
+		2 537	3 537	149.6	152.3	6.2	71.7	21.8	1.1	1.4	94.1	4.7	1.2	0.0	9.9	5.1	18.5	Selective	
13		520	725	151.0	153.1	4.2	71.7	22.9	1.2	1.7	92.4	5.5	2.1	0.0	20.7	14.3	12.0	Yes	
22		1 737	2 398	155.6	157.8	6.4	72.4	20.4	1.1	1.3	94.9	4.5	0.6	0.0	7.4	3.1	21.3	Selective	
15		188	271	126.7	131.7	9.0	69.4	26.5	1.3	1.2	90.8	5.9	3.3	0.0	5.9	0.0	15.0	Yes	
20		3 112	4 555	133.9	144.6	6.5	68.3	20.7	1.1	1.2	91.2	7.4	1.4	0.0	11.2	2.4	0.0	No	
13		3 411	4 741	130.2	129.7	7.2	71.9	17.7	1.2	1.0	89.4	3.5	6.6	0.5	13.1	4.4	2.8	Non-systematic	
+		3 018	4 145	141.7	144.2	6.8	72.8	20.9	1.2	1.3	91.8	5.8	2.4	0.0	10.4	3.5	1.0	Selective	
18		328	460	132.2	136.1	8.8	71.3	22.7	1.1	1.3	91.5	6.7	1.7	0.0	11.3	2.8	1.7	Selective	
5		566	758	171.9	173.3	6.9	74.7	17.7	1.2	1.3	89.8	8.7	1.5	0.0	12.5	2.5	0.0	No	
17		168	226	165.3	164.4	9.5	74.3	15.5	1.3	0.9	91.2	8.4	0.4	0.0	6.6	2.2	0.0	Selective	
17		656	850	101.7	98.2	4.6	77.2	22.7	1.3	1.3	88.9	5.6	5.4	0.0	12.9	2.8	0.0	No	
20		1 300	1 851	161.7	169.6	7.1	70.2	21.4	1.1	1.3	94.0	4.1	1.9	0.0	8.6	4.6	1.9	Selective	
+		343	493	111.0	117.9	7.9	69.6	28.7	1.3	1.1	91.3	5.5	+	3.0	7.7	3.7	35.2	Yes	
10		101	149	135.8	160.4	15.8	67.8	29.2	1.5	1.1	84.6	10.1	0.7	4.7	18.1	6.7	40.0	Yes	
23		187	275	97.3	103.4	5.3	68.0	28.4	1.3	1.2	93.5	3.6	—	2.9	4.0	2.9	34.2	Yes	
11		488	676	95.1	102.1	4.9	72.2	18.1	1.3	1.1	94.8	4.6	0.3	0.3	7.7	4.0	19.8	Yes	

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Dataset (IICC-3 period)																											
Years covered	Age 0-14 only	Total number of cases				ASR per million				Age 0-14				M/F by age				Basis of diagnosis				Unspecified morphology				Non-malignant in CNS (categories III and Xa)	
		age 0-14	age 0-19	age 0-14	age 0-19	age 0-14	age 0-19	in 0-14	in 0-19	Age 19	Age 15-19	0-14	15-19	MV	Clinical	DCO	Unknown	%	%	%	%	%	%	%	%		
N																											
31		433	616		76.1	79.3	7.9	70.3	19.1	1.0	1.1	94.3	5.2	0.5	0.0	6.8	4.9	6.1							Selective		
17	+	1 560	—		134.7	—	6.0	—	—	1.2	—	98.9	1.1	—	0.0	0.8	0.6	6.1							Yes		
3		1 052	1 498		153.1	156.7	7.1	70.2	21.5	1.1	1.2	84.1	11.1	4.8	0.0	16.2	5.6	39.9							Yes		
13		252	348		107.1	107.6	3.6	72.4	19.8	1.4	1.2	92.8	4.9	2.3	0.0	15.5	8.9	0.0							No		
21		2 188	3 218		125.7	133.8	8.5	68.0	22.4	1.2	1.0	95.5	2.0	1.9	0.6	8.5	6.5	12.6							Selective		
20		2 114	2 930		142.4	145.7	8.2	72.2	19.2	1.3	1.1	89.8	2.7	7.5	0.0	10.0	4.8	0.0							No		
AMERICA, NORTH																											
+		18 309	27 396		164.9	176.4	10.4	66.8	23.5	1.1	1.1	88.0	9.3	0.2	2.5	5.0	2.3	13.9							Selective		
22		2 203	3 329		159.6	174.7	10.7	66.2	23.5	1.1	1.1	94.4	5.6	0.0	0.0	1.5	1.3	28.8							Yes		
22		2 398	3 503		160.5	166.6	9.0	68.5	23.7	1.1	1.1	92.3	6.9	0.2	0.5	1.9	1.4	10.0							Yes		
22		778	1 199		151.3	168.7	7.5	64.9	28.0	1.0	0.9	93.7	6.2	0.1	0.0	2.2	1.3	27.6							Yes		
22		566	831		170.2	175.5	9.9	68.1	24.5	1.1	1.1	92.1	6.6	0.1	1.2	3.4	2.9	32.0							Yes		
21		7 441	11 374		164.3	179.6	10.5	65.4	23.3	1.1	1.1	83.2	10.7	0.2	5.9	7.3	2.4	11.8							Selective		
19		4 160	6 039		175.3	181.8	12.2	68.9	23.3	1.1	1.1	87.7	11.8	0.5	0.0	5.7	3.5	0.0							No		
22		722	1 066		161.3	170.7	7.9	67.7	21.5	1.1	1.1	95.3	4.5	0.2	0.0	2.3	1.6	26.1							Yes		
15		146 015	216 741		166.9	179.6	10.5	67.4	23.1	1.1	1.0	93.4	5.7	0.5	0.5	2.8	1.9	21.4							Selective		
15		5 596	7 965		127.1	133.1	10.7	70.3	21.9	1.2	1.0	94.1	5.1	0.5	0.3	2.5	1.8	19.5							Selective		
15		18 286	26 339		126.4	133.3	9.8	69.4	21.5	1.1	1.0	92.6	6.3	0.5	0.5	3.5	2.5	23.2							Selective		
15		27 854	38 677		167.3	176.7	10.7	72.0	22.0	1.1	1.1	93.3	5.6	0.5	0.6	3.1	2.1	23.5							Selective		
15		1 233	1 849		87.8	95.3	10.7	66.7	21.4	1.2	0.9	93.3	5.4	0.8	0.4	3.2	2.4	26.1							Selective		
15		88 962	135 752		176.0	190.9	10.5	65.5	23.6	1.1	1.0	93.6	5.6	0.4	0.4	2.6	1.8	20.2							Selective		
+		139 841	207 568		167.1	179.8	10.5	67.4	23.1	1.1	1.0	93.3	5.7	0.5	0.5	2.8	1.9	22.2							Selective		
+		5 097	7 247		126.9	132.7	10.8	70.3	21.7	1.1	1.0	94.0	5.2	0.5	0.3	2.5	1.8	21.3							Selective		
+		18 013	25 946		126.6	133.5	9.8	69.4	21.4	1.1	1.0	92.6	6.3	0.5	0.5	3.5	2.5	23.5							Selective		
+		26 803	37 198		167.5	177.0	10.7	72.1	22.0	1.1	1.1	93.3	5.6	0.5	0.6	3.1	2.1	24.2							Selective		
+		1 105	1 669		85.9	93.7	10.4	66.2	21.6	1.2	0.9	93.3	5.5	0.8	0.4	3.3	2.5	27.3							Selective		
+		84 812	129 458		176.1	191.1	10.5	65.5	23.5	1.1	1.0	93.5	5.6	0.4	0.4	2.6	1.8	21.0							Selective		
20		44 741	65 217		161.3	172.9	10.3	68.6	23.0	1.1	1.1	95.5	4.0	0.1	0.4	2.1	1.7	0.0							Not provided		
20		3 428	4 889		133.0	139.7	10.9	70.1	21.6	1.2	1.0	95.8	3.7	0.1	0.4	2.0	1.7	0.0							Not provided		
20		5 070	7 104		124.5	129.0	10.4	71.4	20.7	1.1	1.0	95.0	4.5	0.2	0.3	3.0	2.5	0.0							Not provided		
20		12 166	16 750		168.7	176.5	10.3	72.6	22.0	1.1	1.2	96.2	3.3	0.1	0.4	2.0	1.7	0.0							Not provided		
20		471	667		90.4	93.3	12.3	70.6	26.5	1.3	0.8	94.6	4.5	0.1	0.7	3.1	2.2	0.0							Not provided		
20		23 020	34 916		172.5	188.5	9.9	65.9	23.9	1.1	1.1	95.4	4.1	0.1	0.4	1.8	1.5	0.0							Not provided		
15		1 960	2 881		145.2	154.2	10.6	68.0	23.8	1.1	1.0	93.9	4.3	0.9	0.8	3.9	2.6	16.6							Selective		
15		364	553		165.3	182.0	14.0	65.8	25.4	1.5	0.7	92.4	7.2	0.2	0.2	4.0	3.1	33.3							Selective		
20		115	159		176.5	182.7	14.8	72.3	25.0	1.5	0.6	95.0	4.4	0.0	0.6	6.3	5.0	0.0							Not provided		
15		2 994	4 341		163.1	175.2	11.2	69.0	22.7	1.0	1.0	91.7	6.8	0.5	1.0	3.4	2.0	20.6							Selective		
15		1 341	1 914		160.7	167.7	11.1	70.1	20.9	1.1	1.0	89.7	9.4	0.4	0.6	3.7	2.4	23.7							Selective		

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Table A.9. Characteristics and quality indicators of the datasets included in IICC-3

Dataset (IICC-3 period)	Years covered	Age 0-14 only	Total number of cases			ASR per million			Age 0-14			Age 15-19			M/F by age			Basis of diagnosis			Unspecified morphology			Non-malignant in CNS (categories III and Xa)		
			N	age 0-14	age 15-19	age 0-14	age 15-19	age 0-14	in 0-14	in 15-19	%	in 0-14	in 15-19	%	0-14	15-19	%	MV	Clinical	DCO	Unknown	%	%	%	%	%
USA, California (1998-2012)	15		18 742	27 570	167.2	179.9	9.6	68.0	22.6	1.2	1.1	95.4	4.3	0.4	0.0	1.7	1.3	22.9	Selective							
USA, California, Greater California (2000-2012)	13		9 048	13 237	166.1	176.2	9.2	68.4	23.0	1.2	1.1	96.0	3.5	0.1	0.4	1.6	1.3	0.0	Not provided							
USA, California, Los Angeles (1993-2012)	20		6 545	9 333	156.6	166.7	10.0	70.1	23.0	1.1	1.2	97.6	2.2	0.1	0.2	1.6	1.4	0.0	Not provided							
USA, California, San Francisco (1993-2012)	20		2 357	3 358	157.2	168.4	12.2	70.2	22.3	1.2	1.1	96.8	3.2	0.1	0.3	1.8	1.7	0.0	Not provided							
USA, California, San José-Monterey (1993-2012)	20		1 633	2 363	165.5	179.2	10.5	69.1	21.5	1.1	1.1	96.8	2.9	0.1	0.1	1.8	1.6	0.0	Not provided							
USA, Colorado (1998-2012)	15		2 201	3 356	156.0	173.8	10.2	65.6	25.9	1.1	1.1	92.6	6.5	0.6	0.3	1.9	1.0	22.3	Selective							
USA, Connecticut (1993-2012)	20		2 231	3 297	169.0	183.1	10.0	67.7	22.5	1.1	1.1	94.7	4.5	0.3	0.5	2.6	2.2	0.0	Not provided							
USA, Delaware (1998-2012)	15		465	663	193.3	199.1	10.1	70.1	27.3	1.0	1.2	90.8	8.0	0.5	0.8	2.9	2.1	20.2	Selective							
USA, District of Columbia (1998-2012)	15		246	338	181.2	176.3	15.4	72.8	31.5	1.2	1.3	86.1	5.0	3.0	5.9	7.4	2.4	16.9	Selective							
USA, Florida (1998-2012)	15		7 861	11 510	170.4	180.3	10.5	68.3	21.8	1.1	1.0	94.2	5.3	0.4	0.1	2.9	2.3	22.0	Selective							
USA, Georgia (1998-2012)	15		4 513	6 541	158.8	169.6	10.1	69.0	21.9	1.1	1.0	93.0	6.6	0.3	0.0	2.9	2.2	23.3	Selective							
USA, Georgia, Atlanta (1993-2012)	20		1 890	2 681	148.8	158.8	11.5	70.5	23.0	1.2	1.1	95.4	4.3	0.1	0.2	2.2	1.9	0.0	Not provided							
USA, Hawaii (1993-2012)	20		731	1 059	148.7	160.0	10.7	69.0	23.2	1.2	1.2	96.7	2.5	0.1	0.8	2.1	2.0	0.0	Not provided							
USA, Hawaii, Hawaiian (1993-2012)	20		226	317	141.2	150.4	10.6	71.3	25.3	1.4	1.2	96.5	2.5	0.6	0.3	1.6	1.6	0.0	Not provided							
USA, Idaho (1998-2012)	15		795	1 201	166.0	182.5	9.7	66.2	24.6	1.1	1.2	93.9	5.4	0.3	0.3	2.6	2.2	16.4	Selective							
USA, Illinois (1998-2012)	15		6 236	9 369	162.6	177.8	9.5	66.6	22.7	1.1	1.0	94.4	5.1	0.5	0.0	2.5	2.0	26.1	Selective							
USA, Indiana (1998-2012)	15		3 215	4 757	169.5	181.3	10.8	67.6	22.4	1.1	1.0	93.0	6.6	0.2	0.2	1.9	1.4	20.1	Selective							
USA, Iowa (1993-2012)	20		1 937	2 869	169.3	178.9	9.3	67.5	25.4	1.1	1.1	95.7	3.9	0.2	0.2	1.6	1.3	0.0	Not provided							
USA, Kentucky (1998-2012)	15		2 140	3 160	176.0	189.1	10.1	67.7	21.6	1.1	1.0	89.5	9.4	1.1	0.0	2.7	2.1	25.3	Selective							
USA, Louisiana (1998-2012)	15		2 145	3 162	154.8	164.6	10.6	67.8	20.9	1.0	1.1	92.1	6.7	1.2	0.0	3.7	2.5	22.6	Selective							
USA, Maine (1998-2012)	15		634	962	188.6	200.3	11.4	65.9	20.4	1.2	0.9	96.4	2.9	0.2	0.5	1.2	1.0	14.1	Selective							
USA, Massachusetts (1998-2012)	15		3 056	4 643	176.6	190.1	10.7	65.8	23.7	1.1	1.1	94.8	5.0	0.1	0.1	1.9	1.3	19.2	Selective							
USA, Michigan (1998-2012)	15		5 167	7 752	177.2	190.0	12.3	66.7	25.1	1.1	1.0	94.4	4.7	0.2	0.7	2.9	2.4	19.7	Selective							
USA, Michigan, Detroit (1993-2012)	20		2 553	3 772	157.2	172.5	10.8	67.7	24.4	1.1	1.0	97.3	2.2	0.1	0.3	3.0	2.8	0.0	Not provided							
USA, Minnesota (1998-2012)	15		2 532	3 872	165.7	181.9	9.8	65.4	24.3	1.2	1.1	93.3	0.5	0.2	0.0	2.1	1.9	18.5	Selective							
USA, Mississippi (2002-2012)	11		976	1 435	146.1	155.4	10.8	68.0	20.3	1.1	1.0	92.3	7.0	0.5	0.3	2.2	1.7	29.3	Selective							
USA, Missouri (1998-2012)	15		2 721	3 951	161.2	168.9	11.8	68.9	24.6	1.2	1.0	94.6	4.6	0.9	0.0	2.0	1.1	17.5	Selective							
USA, Montana (1998-2012)	15		415	678	156.8	177.8	11.1	61.2	24.3	1.1	1.1	93.1	5.0	0.9	1.0	2.2	1.0	17.4	Selective							
USA, Nebraska (1998-2012)	15		949	1 447	173.9	190.9	9.7	65.6	24.3	1.3	1.0	89.6	9.3	1.0	0.0	2.1	1.4	27.0	Selective							
USA, Nevada (1998-2012)	15		1 076	1 571	147.6	162.3	12.2	68.5	21.6	1.3	1.0	95.4	2.5	0.9	1.1	4.3	2.9	16.8	Selective							
USA, New Hampshire (1998-2012)	15		636	999	181.6	199.6	10.1	63.7	20.1	1.0	1.3	95.2	3.8	0.8	0.2	2.3	2.0	19.8	Selective							
USA, New Jersey (1998-2012)	15		4 520	6 735	179.9	197.7	10.6	67.1	22.8	1.2	1.0	93.5	5.6	1.0	0.0	3.0	2.0	19.1	Selective							
USA, New Mexico (1993-2012)	20		1 149	1 712	140.9	152.9	11.3	67.1	22.7	1.2	1.0	94.0	4.6	0.5	0.9	2.7	2.0	0.0	Not provided							
USA, New York State (1998-2012)	15		9 548	14 435	177.2	192.3	10.2	66.1	23.0	1.1	1.0	92.9	6.4	0.1	0.5	2.8	2.0	24.6	Selective							
USA, North Carolina (1998-2012)	15		4 146	5 982	160.7	170.1	10.5	69.3	21.8	1.1	1.0	94.3	5.0	0.3	0.4	2.5	1.9	20.2	Selective							
USA, North Dakota (1998-2012)	15		270	425	147.1	159.4	10.4	63.5	22.6	1.4	0.9	93.4	5.2	0.5	0.9	3.8	3.1	14.7	Selective							
USA, Ohio (1998-2012)	15		5 363	7 931	161.0	171.6	10.3	67.6	24.5	1.2	1.1	93.3	6.1	0.3	0.3	2.2	1.6	20.7	Selective							
USA, Oklahoma (1998-2012)	15		1 722	2 552	158.9	170.3	10.0	67.5	23.5	1.1	1.1	94.3	4.8	0.5	0.4	4.7	3.6	20.8	Selective							

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Table A.9. Characteristics and quality indicators of the datasets included in IICC-3

Dataset (IICC-3 period)	Years covered	Age 0-14 only	Total number of cases		ASR per million		Age 0-14			Age 15-19			M/F by age		Basis of diagnosis			Unspecified morphology		Non-malignant in CNS (categories III and Xa)	
			N	age 0-14	age 0-19	age 0-14	age 0-19	in 0-14	in 0-14	in 15-19	Age 19	0-14	15-19	MV	Clinical	DCO	Unknown	MV	%	%	
																					%
ASIA																					
USA, Oregon (1998-2012)	15		1 817	2 758	177.8	194.2	9.5	65.9	23.9	1.1	1.1	92.9	6.8	0.2	0.2	1.9	1.2	24.6			Selective
USA, Pennsylvania (1998-2012)	15		5 886	9 053	176.6	190.5	11.3	65.0	23.3	1.1	1.0	92.9	6.3	0.4	0.4	2.0	1.5	19.8			Selective
USA, Rhode Island (1998-2012)	15		513	736	181.9	183.6	11.7	69.7	20.2	1.0	1.0	97.4	2.0	0.1	0.4	3.0	2.4	20.4			Selective
USA, South Carolina (1998-2012)	15		1 834	2 698	145.8	154.5	10.4	68.0	25.1	1.1	1.0	92.2	5.9	0.5	1.4	3.4	2.2	22.5			Selective
USA, South Dakota (2001-2012)	12		257	404	133.2	149.2	12.1	63.6	28.6	1.4	1.3	88.9	6.2	1.7	3.2	2.2	0.7	20.2			Selective
USA, Tennessee (1999-2012)	14		2 664	3 901	164.0	175.0	11.0	68.3	24.5	1.1	1.0	93.2	6.3	0.2	0.3	3.5	2.7	27.1			Selective
USA, Texas (1998-2012)	15		13 808	19 914	177.9	190.1	11.4	69.3	23.1	1.1	1.0	89.8	7.6	0.7	1.9	5.1	2.8	24.8			Selective
USA, Utah (1993-2012)	20		1 965	2 917	157.6	172.5	12.5	67.4	25.1	1.1	1.2	96.2	3.8	0.0	0.0	1.9	1.8	0.0			Not provided
USA, Vermont (1998-2012)	15		268	448	164.7	184.9	8.6	59.8	18.9	1.2	1.0	92.6	6.9	0.2	0.2	2.9	2.2	35.2			Selective
USA, Virginia (1998-2012)	15		3 248	4 727	149.8	158.5	10.3	68.7	24.5	1.2	1.0	94.0	4.9	0.7	0.5	3.1	2.2	18.6			Selective
USA, Washington State (1998-2012)	15		3 222	4 910	174.8	192.5	10.2	65.6	23.9	1.0	0.9	91.0	8.3	0.2	0.5	1.9	1.1	25.2			Selective
USA, Washington, Seattle (1993-2012)	20		2 681	3 956	168.2	181.9	9.6	67.8	23.6	1.1	0.9	93.9	6.0	0.0	0.1	1.5	1.3	0.0			Not provided
USA, West Virginia (1998-2012)	15		754	1 157	162.0	175.3	11.7	65.2	18.6	1.3	0.9	93.9	5.3	0.5	0.3	2.0	1.4	21.8			Selective
USA, Wisconsin (1998-2012)	15		2 705	4 197	170.6	187.0	10.3	64.5	20.7	1.1	1.0	94.5	4.6	0.6	0.3	3.2	1.9	21.4			Selective
USA, Wyoming (1998-2012)	15		225	341	147.1	157.8	9.8	66.0	24.1	1.2	1.2	91.5	7.9	0.0	0.6	3.8	2.9	16.9			Selective
ASIA																					
BAHRAIN (1998-2012)	15		366	481	118.8	120.2	9.0	76.1	21.7	1.4	0.9	92.9	6.2	0.6	0.2	13.1	9.4	22.1			Yes
CHINA, 6 registries (1990-2013)	†		7 064	11 188	131.9	135.0	9.6	63.1	23.9	1.2	1.0	92.4	6.9	0.7	0.0	21.2	14.1	16.5			Selective
CHINA, Beijing (2000-2013)	14		1 982	3 161	124.3	121.9	10.3	62.7	22.8	1.2	1.1	92.0	7.6	0.4	0.1	15.4	7.4	11.4			Yes
CHINA, Dalian (2003-2012)	10		280	453	142.5	145.6	8.6	61.8	20.2	1.0	1.2	80.8	12.1	7.1	0.0	26.9	7.9	15.1			Yes
CHINA, Guangzhou (2010-2012)	3		484	768	149.4	154.5	7.9	63.0	23.9	1.4	1.0	91.8	7.8	0.4	0.0	12.9	6.1	20.9			Yes
CHINA, Hong Kong (1990-2013)	24		3 397	5 105	145.7	149.8	10.1	66.5	23.2	1.2	1.0	94.2	5.5	0.3	0.0	9.8	4.0	0.0			No
CHINA, Shanghai (2002-2012)	11		635	1 278	114.4	128.1	7.9	49.7	29.1	1.2	0.9	90.5	8.1	1.4	0.0	17.7	10.2	27.7			Yes
CHINA, Zhongshan (2003-2012)	10		314	495	88.2	105.1	5.4	63.4	24.9	1.2	1.2	93.5	6.5	0.0	0.0	15.4	9.1	28.3			Yes
INDIA, 7 registries (1990-2013)	†		16 240	22 670	96.9	97.9	2.9	71.6	18.7	1.5	1.3	93.8	4.9	1.2	0.2	15.5	9.7	0.0			No
INDIA, Bangalore (1993-2011)	19		2 164	2 954	72.7	72.4	0.3	73.3	22.9	1.3	1.3	95.5	2.3	1.9	0.3	12.9	9.4	0.0			No
INDIA, Chennai (1993-2013)	21		2 531	3 464	119.9	118.2	3.7	73.1	20.9	1.4	1.3	92.5	5.5	2.0	0.0	12.8	6.3	0.0			No
INDIA, Kollam (2006-2012)	7		393	586	97.4	106.5	1.8	67.1	25.9	1.4	1.2	92.7	4.8	2.6	0.0	16.0	8.7	0.0			No
INDIA, Mumbai (1993-2012)	20		5 219	7 300	86.5	86.2	3.1	71.5	18.9	1.5	1.2	95.6	3.4	1.0	0.0	14.6	10.2	0.0			No
INDIA, Nagpur (1990-2012)	23		1 403	2 071	104.2	112.3	3.3	67.7	16.2	1.6	1.1	88.7	9.6	1.8	0.0	23.9	12.6	0.0			No
INDIA, New Delhi (2003-2010)	8		4 320	5 981	117.6	120.2	3.5	72.2	15.3	1.9	1.5	93.6	5.8	0.1	0.5	16.8	10.4	0.0			No
INDIA, Trivandrum (2005-2012)	8		210	314	100.6	110.3	0.0	66.9	21.2	1.1	0.9	92.4	7.0	0.6	0.0	11.8	4.1	0.0			No
ISLAMIC REPUBLIC OF IRAN, Golestan (2004-2011)	8		360	618	99.8	111.7	2.8	58.3	20.5	1.5	1.2	87.4	9.1	3.6	0.0	26.7	14.1	0.0			No
ISRAEL (1990-2012)	23		6 229	9 022	152.0	169.3	11.0	69.0	22.4	1.2	1.0	92.1	4.4	0.5	3.0	7.8	3.6	16.2			Yes
ISRAEL, Jews (1990-2012)	23		4 636	6 886	155.6	175.2	10.5	67.3	22.6	1.2	1.0	92.1	4.4	0.4	3.2	7.3	3.3	15.2			Yes
ISRAEL, Non-Jews (1990-2012)	23		1 593	2 136	142.4	151.8	12.2	74.6	21.5	1.2	1.0	92.1	4.6	0.9	2.4	9.3	4.5	19.4			Yes
JAPAN, 8 registries (1990-2013)	†		7 755	10 565	134.3	130.2	14.7	73.4	23.8	1.1	1.1	89.8	8.9	0.8	0.4	8.5	3.1	28.5			Selective
JAPAN, Aichi (2008-2012)	5		627	844	122.0	121.2	11.0	74.3	19.8	1.2	0.9	91.2	8.6	0.1	0.0	7.3	2.6	35.9			Yes

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Table A.9. Characteristics and quality indicators of the datasets included in IICC-3

Dataset (IICC-3 period)																			
Years covered	Age 0-14 only	Total number of cases		ASR per million		Age 0 in 0-14		Age 19 in 15-19		M/F by age		Basis of diagnosis			Unspecified morphology		Non-malignant in CNS (categories III and Xa)		
		age 0-14	age 0-19	age 0-14	age 0-19	%	%	%	%	%	%	MV	Clinal	DCO	%	%	%	%	
N																			
23		565	824	144.5	147.7	16.3	68.6	24.7	1.1	1.1	91.5	7.6	0.7	0.1	4.0	2.2	38.8	Yes	
21		950	1 334	131.6	128.4	13.3	71.2	27.9	1.3	1.2	94.5	4.8	0.7	0.0	7.3	3.2	27.5	Selective	
20		567	823	129.6	132.1	14.3	68.9	21.5	1.0	1.0	91.7	7.9	0.4	0.0	4.9	2.3	41.4	Yes	
10		399	563	132.5	134.2	14.0	70.9	21.3	1.3	0.9	96.1	3.6	0.4	0.0	2.5	1.2	22.9	Yes	
23		3 971	5 193	142.5	133.1	16.3	76.5	23.8	1.1	1.2	86.9	11.5	0.8	0.8	10.5	3.2	24.8	Yes	
8		271	378	128.8	130.8	11.8	71.7	28.0	1.2	1.3	88.9	9.3	1.6	0.3	9.5	3.7	34.7	Selective	
24		405	606	95.6	102.1	8.9	66.8	21.9	1.1	1.3	92.6	4.1	3.1	0.2	12.5	6.6	16.7	Selective	
13		2 698	3 757	101.0	108.1	1.6	71.8	21.7	1.3	1.0	97.0	2.8	0.1	0.1	4.7	4.2	0.5	Non-systematic	
14		16 312	24 079	135.9	141.6	11.7	67.7	24.4	1.2	0.9	91.8	6.9	1.3	0.0	8.6	3.0	0.0	Not provided	
14		1 004	1 586	129.7	135.6	11.0	63.3	26.3	1.2	0.9	90.2	8.4	1.3	0.0	9.6	2.6	0.0	Not provided	
14		850	1 304	138.1	145.6	11.4	65.2	24.0	1.1	0.8	91.7	7.4	0.8	0.0	9.7	4.1	0.0	Not provided	
14		511	755	133.1	138.8	10.8	67.7	26.6	1.0	1.0	91.1	7.8	1.1	0.0	8.5	3.3	0.0	Not provided	
16		714	1 027	158.7	161.8	11.8	69.5	23.6	1.1	0.9	90.4	8.0	1.7	0.0	7.6	2.5	42.9	Yes	
15		1 061	1 558	140.9	147.7	10.4	68.1	25.2	1.1	1.0	89.8	9.6	0.6	0.0	8.0	2.4	42.9	Yes	
13		204	292	140.5	148.4	7.8	69.9	22.7	1.0	0.7	90.8	8.6	0.7	0.0	8.9	2.4	0.0	Not provided	
18		4 182	6 274	135.7	140.4	13.3	66.7	23.4	1.2	1.0	90.9	7.1	2.0	0.0	10.0	2.9	0.0	Not provided	
12		340	491	134.0	137.8	10.6	69.2	20.5	1.0	0.9	94.1	5.1	0.8	0.0	6.1	3.1	0.0	Not provided	
19		1 360	1 798	112.8	117.8	9.2	75.6	22.1	1.3	1.0	91.8	2.6	5.6	0.1	7.1	1.1	24.2	Selective	
19		797	1 070	112.3	119.7	9.4	74.5	23.1	1.4	0.8	92.1	2.4	5.4	0.1	7.0	1.3	25.8	Selective	
19		563	728	113.6	115.3	8.9	77.3	20.6	1.2	1.3	91.3	2.7	5.9	0.0	7.1	0.8	21.2	Selective	
3		505	765	141.2	156.5	2.0	66.0	23.5	1.3	1.3	100.0	0.0	—	0.0	5.6	5.6	0.0	No	
8		545	840	94.3	119.1	1.5	64.9	19.3	1.6	1.2	96.2	3.0	0.7	0.1	11.5	8.8	0.0	No	
5		1 406	1 891	75.6	78.8	2.3	74.4	14.2	1.6	1.5	97.9	2.1	—	0.0	10.9	10.6	29.6	Yes	
20		8 826	12 052	118.3	121.9	6.5	73.2	23.4	1.3	1.1	85.1	7.7	7.2	0.0	20.1	9.2	0.4	Non-systematic	
20		4 393	6 039	127.0	130.6	6.5	72.7	23.5	1.2	1.1	86.3	7.0	6.7	0.0	16.3	7.6	0.0	No	
20		4 433	6 013	110.8	114.3	6.6	73.7	23.2	1.3	1.1	83.9	8.4	7.6	0.1	23.9	10.8	0.8	Non-systematic	
13		301	430	102.4	115.7	9.0	70.0	17.8	1.0	0.8	96.5	2.1	1.2	0.2	6.5	4.4	16.0	Non-systematic	
19		3 921	5 317	118.2	127.7	8.2	73.7	19.3	1.2	1.0	97.0	2.3	0.4	0.3	3.0	2.5	0.0	No	
19		3 167	4 347	115.1	124.8	8.5	72.9	19.2	1.3	1.0	97.3	2.2	0.3	0.2	2.9	2.4	0.0	No	
19		754	970	133.3	143.2	6.8	77.7	19.9	1.1	1.2	95.9	2.8	0.6	0.7	3.5	2.9	0.0	No	
+		4 260	6 155	111.4	112.7	5.9	69.2	21.3	1.2	1.0	89.2	8.4	2.3	0.0	20.9	10.2	4.8	Selective	
12		1 444	2 125	112.1	112.1	2.4	68.0	21.7	1.2	1.1	90.1	8.1	1.8	0.0	24.6	14.7	4.4	Non-systematic	
20		666	958	118.3	119.8	6.6	69.5	15.4	1.3	1.0	88.1	9.0	2.9	0.0	15.8	4.3	14.4	Selective	
15		491	694	133.7	138.8	6.3	70.7	24.6	1.2	0.9	90.8	6.6	2.6	0.0	25.2	16.0	1.3	Non-systematic	
20		732	994	103.1	100.2	8.7	73.6	21.8	1.2	0.9	87.8	10.0	2.2	0.0	17.9	5.7	0.0	Not provided	
21		318	492	113.9	121.7	7.5	64.6	20.1	1.3	0.9	87.4	9.6	3.0	0.0	23.4	10.8	0.0	No	
20		609	892	99.1	103.7	9.2	68.3	24.4	1.0	1.0	89.9	7.6	2.5	0.0	16.0	6.1	4.1	Non-systematic	
3	+	5 251	—	96.5	—	9.0	—	—	1.3	—	94.2	5.8	—	0.0	1.2	1.0	21.8	Non-systematic	

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Table A.9. Characteristics and quality indicators of the datasets included in IICC-3

Dataset (IICC-3 period)																				
Years covered	Age 0-14 only	Total number of cases		ASR per million		Age 0 in 0-14		Age 0-14 in 0-19		Age 19 in 15-19		M/F by age		Basis of diagnosis			Unspecified morphology		Non-malignant in CNS (categories III and Xa)	
		age 0-14	age 0-19	age 0-14	age 0-19	%	%	%	%	%	%	0-14	15-19	MV	Clinical	DCO	Unknown	%	%	%
†		6 000	8 663	157.2	163.8	8.6	69.3	21.8	1.2	1.1	94.9	4.5	0.4	0.2	5.0	2.9	34.7			Yes
5		910	1 362	175.6	192.1	10.8	66.8	24.8	1.2	1.0	99.6	0.4	0.0	0.0	2.9	2.5	23.1			Yes
15		946	1 293	160.1	162.1	8.2	73.2	17.0	1.1	0.9	94.4	5.3	0.3	0.1	4.9	2.9	36.5			Yes
9		679	958	137.6	142.1	8.0	70.9	21.5	1.3	1.1	93.0	7.0	0.0	0.0	7.3	3.3	37.6			Yes
7		248	370	154.1	170.6	6.5	67.0	22.1	1.0	0.9	86.8	12.2	0.0	1.1	12.7	5.4	37.9			Yes
21		2 414	3 534	156.2	162.7	8.2	68.3	22.5	1.2	1.2	94.5	4.3	0.9	0.3	4.7	2.9	34.7			Yes
10		468	624	161.1	155.8	10.0	75.0	18.6	1.1	1.0	96.2	3.8	0.0	0.0	3.8	1.9	39.1			Yes
10		247	389	156.2	168.5	6.1	63.5	19.7	1.3	1.0	93.3	6.4	0.3	0.0	5.1	2.8	48.6			Yes
19		2 718	3 552	116.0	106.5	6.7	76.5	25.4	1.2	1.0	84.5	15.4	—	0.1	25.3	11.9	5.3			Yes
EUROPE																				
23		4 578	6 848	154.0	165.2	10.3	66.9	22.7	1.1	1.3	97.3	0.7	1.6	0.4	5.4	3.7	25.2			Yes
25		6 863	10 294	157.0	164.5	7.0	66.7	21.6	1.1	0.9	96.7	3.1	0.2	0.0	4.2	1.6	26.8			Yes
10		3 426	5 201	191.6	211.1	11.6	65.9	23.8	1.1	1.1	96.6	3.4	—	0.0	1.9	0.9	51.4			Yes
24		3 533	5 274	120.8	124.6	6.5	67.0	24.1	1.3	1.2	90.7	3.9	5.5	0.0	11.6	3.5	7.0			Selective
14		1 738	2 572	193.9	202.9	7.6	67.6	21.3	1.3	1.1	90.8	9.0	0.2	0.0	13.6	5.1	34.4			Selective
15		360	615	166.6	193.8	9.7	58.5	24.3	1.2	0.9	93.7	3.4	2.1	0.8	4.1	1.5	0.0			No
23		6 301	9 642	165.7	173.5	10.1	65.3	22.7	1.2	1.1	93.1	5.3	1.4	0.2	7.6	3.5	24.3			Yes
23		819	1 239	146.6	156.1	8.7	66.1	21.9	1.1	1.1	95.0	4.5	0.5	0.0	5.9	1.5	34.0			Selective
13	+	22 584	—	157.6	—	10.8	—	—	—	1.1	—	94.6	5.4	—	0.0	1.5	1.2	44.1		Yes
10	+	6 283	—	57.1	—	4.4	—	—	—	1.3	—	95.1	4.9	—	0.0	1.1	1.0	—		—
†		4 822	7 204	158.4	171.2	10.1	66.9	25.1	1.2	1.0	96.6	3.3	—	0.1	2.3	1.4	39.2			Selective
19		589	872	162.8	174.5	10.2	67.5	25.4	1.4	1.2	95.5	4.5	—	0.0	2.9	1.4	40.0			Selective
23		404	625	140.9	154.7	7.9	64.6	20.8	1.0	1.1	97.8	2.2	—	0.0	4.2	4.0	34.1			Selective
20		298	462	155.2	171.4	10.1	64.5	26.8	1.2	1.1	97.0	3.0	—	0.0	3.7	2.8	41.2			Selective
5		208	317	167.4	182.9	12.5	65.6	32.1	1.3	1.1	95.6	4.4	—	0.0	1.3	0.3	47.1			Yes
20		386	594	141.0	161.1	7.5	65.0	26.9	1.2	0.9	98.1	1.7	—	0.2	2.0	1.2	37.3			Yes
20		568	821	177.9	183.1	11.6	69.2	24.1	1.3	1.2	97.0	3.0	—	0.0	1.1	0.5	31.9			Yes
20		767	1 100	173.6	182.7	10.4	69.7	22.8	1.0	0.9	96.7	2.8	—	0.5	1.6	1.3	43.6			Yes
5		124	192	170.4	187.4	15.3	64.6	33.8	1.3	1.2	96.9	3.1	—	0.0	0.5	0.5	37.5			Selective
15		767	1 181	152.2	170.6	12.1	64.9	23.4	1.1	0.9	97.0	3.0	—	0.0	2.5	1.0	50.0			Selective
19		255	370	152.0	162.3	8.6	68.9	27.0	1.4	1.2	96.8	3.2	—	0.0	2.4	2.2	40.3			Yes
20		281	425	136.0	146.4	8.9	66.1	27.1	1.4	1.3	95.1	4.9	—	0.0	1.6	1.6	0.0			Not provided
20		185	263	157.0	163.6	4.3	70.3	26.9	1.3	1.3	94.7	5.3	—	0.0	4.2	1.5	51.6			Yes
17	+	30 770	—	158.5	—	10.3	—	—	—	1.2	—	95.5	4.5	—	0.0	1.1	0.8	40.2		Yes
7		1 839	3 230	141.2	150.9	12.3	56.9	22.0	1.1	1.2	94.9	2.0	2.6	0.6	4.8	2.0	0.0			Not provided
†		7 471	11 480	157.5	170.4	9.3	65.1	23.6	1.2	1.2	91.3	5.1	1.8	1.7	3.2	1.5	28.6			Selective
11		3 038	4 695	156.0	169.6	10.0	64.7	24.1	1.2	1.1	92.9	4.5	2.1	0.5	4.3	1.4	32.0			Selective
10		1 720	2 726	152.4	167.7	8.6	63.1	25.0	1.2	1.3	92.9	4.3	1.1	1.7	2.7	2.0	0.0			No

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Table A.9. Characteristics and quality indicators of the datasets included in IICC-3

Dataset (IICC-3 period)																						
Years covered	Age 0-14 only	Total number of cases		ASR per million		Age 0-14			Age 15-19			M/F by age		Basis of diagnosis			Unspecified morphology		Non-malignant in CNS (categories III and Xa)			
		age 0-14	age 0-19	age 0-14	age 0-19	in 0-14	in 0-19	in 15-19	Age 19	0-14	15-19	MV	Clinical	DCO	Unknown	%	%	%	%			
N						%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
15		1 454	2 079	166.9	170.4	9.2	69.9	20.8	1.1	1.1	86.3	6.7	2.3	4.7	2.7	1.2	43.0	Yes				
19		428	659	160.8	173.7	8.4	64.9	23.8	1.4	1.3	95.6	3.2	1.1	0.2	3.0	1.7	25.8	Non-systematic				
13		831	1 321	157.1	177.2	8.9	62.9	22.7	1.0	1.1	88.2	7.8	1.8	2.2	1.7	1.4	33.2	Selective				
19	+	2 411	—	79.0	—	3.4	—	—	—	1.4	—	98.5	1.5	—	0.0	0.8	0.7	29.1	Yes			
24	+	5 705	—	149.6	—	10.8	—	—	—	1.2	—	97.3	2.7	—	0.0	0.5	0.5	31.7	Yes			
25		228	376	141.3	170.3	8.8	60.6	30.4	1.3	1.3	96.0	4.0	0.0	0.0	4.8	1.3	40.7	Yes				
19		2 473	3 781	152.8	168.0	9.6	65.4	23.1	1.1	1.1	94.4	5.2	0.2	0.2	3.8	2.3	38.3	Yes				
+		1 610	2 414	195.4	214.3	10.2	66.7	23.8	1.2	1.2	96.3	3.6	+	0.2	1.4	0.6	44.7	Selective				
10		362	559	195.3	214.4	13.5	64.8	24.9	1.1	1.2	96.8	2.5	—	0.7	1.1	1.1	19.5	Selective				
22	+	2 178	—	190.0	—	9.5	—	—	—	1.2	—	96.0	3.9	0.0	0.0	2.6	0.8	47.4	Selective			
12		1 248	1 855	195.6	214.4	9.3	67.3	23.4	1.2	1.2	96.1	3.9	0.0	0.0	1.6	0.4	51.9	Selective				
+		7 517	11 663	186.1	206.2	9.3	64.5	22.7	1.2	1.1	91.9	7.8	0.2	0.0	8.4	2.6	36.7	Selective				
14		367	559	166.7	190.4	10.6	65.7	16.7	1.3	1.0	80.3	18.6	1.1	0.0	17.5	3.6	0.0	Not provided				
11		657	1 044	204.7	226.4	6.7	62.9	14.2	1.0	0.9	85.1	14.8	0.1	0.0	18.0	5.7	71.9	Yes				
9		137	229	195.8	240.4	10.9	59.8	25.0	1.0	0.8	92.6	7.4	0.0	0.0	4.8	0.0	54.9	Yes				
21		146	240	204.6	228.7	11.6	60.8	20.2	1.5	1.1	85.4	13.8	0.8	0.0	11.7	2.1	41.9	Yes				
16		397	620	179.9	203.2	11.1	64.0	26.9	1.3	1.1	93.5	6.5	0.0	0.0	6.0	1.6	0.0	Not provided				
7		120	187	185.3	213.7	9.2	64.2	19.4	1.5	1.2	87.7	12.3	0.0	0.0	12.8	1.1	11.1	Selective				
9		246	356	192.4	210.6	9.8	69.1	24.5	1.7	1.2	94.9	5.1	0.0	0.0	4.5	1.7	23.1	Non-systematic				
23		335	503	179.1	193.3	11.9	66.6	29.2	1.1	1.1	95.4	4.0	0.6	0.0	4.0	0.8	37.2	Yes				
17		469	727	204.2	225.2	9.2	64.5	24.8	1.1	0.9	94.2	5.6	0.1	0.0	5.9	1.1	45.7	Yes				
22		220	325	207.1	222.7	12.7	67.7	28.6	1.0	0.9	95.7	4.3	0.0	0.0	6.2	3.7	37.1	Yes				
21		239	364	182.7	196.5	6.7	65.7	21.6	1.1	1.0	90.1	9.9	0.0	0.0	10.4	3.3	48.3	Yes				
17		207	313	181.0	206.8	9.2	66.1	24.5	1.3	1.2	96.8	2.9	0.3	0.0	2.9	1.3	44.1	Yes				
23		541	832	191.5	208.3	9.4	65.0	25.8	1.1	1.0	88.9	10.8	0.2	0.0	10.8	2.3	50.3	Yes				
13		428	698	184.3	209.0	9.6	61.3	19.6	1.1	1.2	86.0	13.9	0.1	0.0	16.8	3.4	9.9	Selective				
20		223	381	174.7	198.1	6.7	58.5	17.7	1.2	1.0	89.5	8.1	2.4	0.0	15.7	5.5	30.6	Yes				
14		129	213	153.5	174.3	7.0	60.6	31.0	0.9	1.1	94.8	5.2	0.0	0.0	8.5	5.2	0.0	No				
10		118	172	157.8	173.4	7.6	68.6	29.6	1.2	1.1	88.4	11.6	0.0	0.0	13.4	5.2	16.1	Selective				
21		357	540	166.5	180.8	8.7	66.1	23.0	1.1	1.5	96.7	3.0	0.0	0.4	4.3	1.9	0.0	Not provided				
18		402	610	217.9	234.2	10.7	65.9	23.1	1.0	1.1	96.2	3.3	0.0	0.5	6.4	3.3	25.9	Yes				
21		456	672	197.5	208.0	9.0	67.9	25.5	1.0	1.2	96.3	3.6	0.1	0.0	2.1	1.5	29.8	Selective				
18		1 035	1 629	175.7	196.6	9.1	63.5	24.1	1.2	1.2	95.6	4.2	0.2	0.0	3.4	1.7	33.9	Yes				
13		880	1 400	133.5	140.3	9.2	62.9	23.5	1.0	1.1	94.1	4.4	1.3	0.2	6.9	1.4	6.6	Yes				
20		247	352	177.7	179.8	6.5	70.2	22.9	1.2	1.3	97.4	2.6	0.0	0.0	1.4	0.6	13.0	Yes				
21		9 227	13 816	154.5	170.7	9.3	66.8	24.8	1.2	1.1	95.9	4.1	—	0.0	1.9	0.7	42.5	Selective				
24		3 410	5 090	165.2	181.9	11.0	67.0	24.1	1.1	1.1	94.1	5.8	0.1	0.0	7.5	4.3	50.1	Selective				
13		10 205	16 155	132.8	140.3	9.6	63.2	24.3	1.2	1.2	92.3	6.6	0.4	0.7	10.3	3.1	7.3	Selective				

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Table A.9. Characteristics and quality indicators of the datasets included in IICC-3

Dataset (IICC-3 period)	Years covered	Age 0-14 only	N	Total number of cases	ASR per million			Age 0-14			Age 19			M/F by age			Basis of diagnosis			Unspecified morphology			Non-malignant in CNS (categories III and Xa)		
					age 0-14	age 0-19	age 0-19	in 0-14	in 0-14	in 15-19	Age 19	by age		MV Clinical	DCO	Unknown	MV	%	%	%	%	%	%		
												%	%											%	%
POLAND, Greater Poland (1999-2013)	15		1 311	2 057	155.4	163.8	10.6	63.7	23.7	1.2	1.3	94.4	5.5	0.1	0.0	8.2	2.5	1.9	Non-systematic						
POLAND, Kielce (1990-2013)	24		710	1 106	138.8	146.8	7.6	64.2	22.5	1.1	1.1	91.8	7.6	—	0.6	12.5	4.4	3.8	Selective						
POLAND, Lower Silesia (2000-2013)	14		655	1 096	111.7	122.4	9.9	59.8	24.9	1.1	1.2	96.8	3.2	0.0	0.0	5.0	1.8	0.0	No						
POLAND, Lublin (1999-2013)	15		799	1 252	152.9	158.9	10.6	63.8	25.8	1.3	1.2	87.6	11.4	1.0	0.0	13.9	1.8	4.5	Selective						
PORTUGAL (1991-2012)	†		4 339	6 448	164.6	173.8	8.8	67.3	22.5	1.2	1.1	96.3	3.5	†	0.2	4.2	2.7	33.4	Yes						
PORTUGAL, Azores (1997-2011)	15		117	198	160.4	188.5	6.8	59.1	22.2	1.0	0.9	96.0	4.0	0.0	0.0	2.5	1.0	10.5	Yes						
PORTUGAL, Centre (2000-2010)	11		658	969	174.2	181.7	9.0	67.9	26.0	1.2	1.0	91.8	7.7	—	0.4	5.7	3.9	32.2	Yes						
PORTUGAL, North (1991-2010)	20		1 708	2 575	154.7	162.7	8.8	66.3	21.8	1.3	1.0	97.2	2.3	—	0.5	4.8	2.6	33.6	Yes						
PORTUGAL, South (1998-2012)	15		1 856	2 706	171.9	182.1	8.9	68.6	21.9	1.1	1.2	97.0	3.0	—	0.0	3.1	2.5	35.0	Yes						
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	10	+	1 176	—	139.8	—	7.3	—	—	—	—	—	—	—	0.0	2.7	0.5	35.8	Yes						
RUSSIAN FEDERATION, 2 registries (1998-2015)	†		1 545	2 285	141.1	142.1	12.4	67.6	24.7	1.0	1.0	98.8	0.2	1.0	0.0	5.0	4.8	2.5	Non-systematic						
RUSSIAN FEDERATION, Chelyabinsk (2008-2012)	5		394	539	148.3	144.6	9.4	73.1	30.3	1.1	1.0	98.5	0.0	1.5	0.0	7.6	6.7	5.3	Non-systematic						
RUSSIAN FEDERATION, Samara (1998-2015)	18		1 151	1 746	139.7	141.9	13.4	65.9	23.4	0.9	1.0	98.9	0.3	0.8	0.0	4.2	4.2	1.5	Non-systematic						
SLOVAKIA (1990-2009)	20		2 955	4 574	145.8	154.7	9.7	64.6	21.5	1.2	1.3	96.4	2.2	1.4	0.0	5.2	1.7	32.9	Yes						
SLOVAKIA, paediatric (2000-2012)	13	+	1 626	—	144.6	—	10.5	—	—	—	—	—	—	—	0.2	3.4	1.5	33.9	Yes						
SLOVENIA (1991-2012)	22		971	1 535	144.2	155.9	8.4	63.3	23.9	1.1	1.2	98.6	1.4	0.0	0.0	2.4	1.0	21.6	Yes						
SPAIN, 2 paediatric registries (1991-2013)	†	+	7 497	—	159.2	—	11.2	—	—	—	—	—	—	—	0.0	1.9	1.1	30.5	Yes						
SPAIN, selected regions, paediatric (2000-2013)	14	+	5 293	—	155.1	—	11.4	—	—	—	—	—	—	—	0.1	1.8	1.1	31.3	Yes						
SPAIN, Valencia, paediatric (1991-2010)	20	+	2 204	—	171.3	—	10.8	—	—	—	—	—	—	—	0.0	2.4	1.2	28.6	Yes						
SPAIN, 11 registries (1990-2013)	†		5 081	7 839	164.3	174.6	9.8	64.8	22.1	1.2	1.2	95.4	4.0	0.4	0.2	4.4	1.9	31.4	Selective						
SPAIN, Albacete (1991-2010)	20		190	286	159.8	166.9	13.7	66.4	14.6	1.4	1.3	95.8	3.8	0.3	0.0	3.5	1.7	32.1	Selective						
SPAIN, Asturias (1992-2010)	19		350	561	155.3	161.9	8.3	62.4	18.5	1.2	1.4	96.8	2.9	0.4	0.0	4.3	3.6	29.6	Yes						
SPAIN, Basque Country (1990-2012)	23		1 131	1 728	178.6	185.9	10.5	65.5	25.8	1.3	1.2	94.1	5.3	0.6	0.0	7.3	3.1	39.9	Selective						
SPAIN, Canary Islands (1993-2011)	19		677	1 064	147.3	157.8	8.0	63.6	23.0	1.3	1.1	94.9	4.0	0.6	0.5	4.3	1.3	36.4	Selective						
SPAIN, Cuenca (1993-2012)	20		96	155	174.1	191.5	8.3	61.9	25.4	0.9	0.9	89.7	9.7	0.0	0.6	11.0	5.2	40.5	Yes						
SPAIN, Girona (1990-2013)	24		403	594	178.1	187.9	10.2	67.8	23.0	1.3	1.3	96.6	2.5	0.3	0.5	2.2	1.5	39.6	Yes						
SPAIN, Granada (1992-2013)	22		472	753	146.1	162.0	7.4	62.7	22.1	1.0	1.1	94.6	5.2	0.3	0.0	5.0	0.4	39.3	Selective						
SPAIN, Mallorca (1990-2012)	23		407	621	157.1	169.9	11.1	65.5	20.1	1.2	1.3	96.1	3.2	0.0	0.6	2.6	1.3	24.5	Selective						
SPAIN, Murcia (1991-2009)	19		686	1 033	166.9	175.9	9.2	66.4	20.2	1.1	1.3	96.6	2.8	0.2	0.4	2.7	1.5	0.0	No						
SPAIN, Navarra (1990-2010)	21		295	475	176.2	193.6	11.5	62.1	19.4	1.1	1.1	95.8	3.4	0.8	0.0	2.7	2.3	29.1	Selective						
SPAIN, Tarragona (1990-2011)	22		374	569	172.1	183.8	11.2	65.7	23.1	1.2	1.0	96.7	3.0	0.4	0.0	2.6	1.1	23.7	Non-systematic						
SWEDEN (1990-2011)	22		5 284	7 557	155.3	162.2	10.2	69.9	22.8	1.1	1.1	96.6	3.4	—	0.0	7.1	4.4	37.6	Yes						
SWITZERLAND, paediatric (1990-2013)	24	+	4 481	—	159.2	—	9.8	—	—	—	—	—	—	—	1.0	1.6	1.1	40.3	Yes						
SWITZERLAND, 7 registries (1990-2013)	†		1 798	2 665	173.1	187.7	9.7	67.5	21.0	1.2	1.1	96.8	2.9	0.3	0.0	2.9	1.8	45.0	Selective						
SWITZERLAND, Geneva (1993-2013)	21		223	345	154.2	175.4	8.1	64.6	18.0	1.0	1.1	94.8	5.2	0.0	0.0	1.7	1.2	57.4	Selective						
SWITZERLAND, Neuchâtel (1993-2013)	21		106	163	185.3	205.0	9.4	65.0	33.3	1.1	1.1	98.2	1.2	0.6	0.0	1.8	0.0	42.9	Yes						
SWITZERLAND, Ticino (1996-2012)	17		129	201	171.8	192.8	10.1	64.2	25.0	1.2	1.0	99.5	0.5	0.0	0.0	1.0	1.0	27.5	Non-systematic						
SWITZERLAND, Valais (1990-2012)	23		185	270	167.0	176.4	7.6	68.5	16.5	1.2	0.8	96.3	3.3	0.4	0.0	4.1	1.1	29.1	Yes						

More datasets available online

Table A.9. Characteristics and quality indicators of the datasets included in IICC-3

Dataset (IICC-3 period)															Total number of cases						ASR per million						Age 0-14 only						Years covered		Age 0-14 only		M/F by age						Basis of diagnosis						Unspecified morphology			Non-malignant in CNS (categories III and Xa)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
															age 0-14			age 0-19			age 0-14			age 0-19			age 0-14			age 0-19			Age 19 in 15-19			Age 19 in 15-19			0-14			15-19			MV			DCO			Unknown			MV			%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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