

Chapter 10. CNS tumours by behaviour

Table 10.1. CNS and miscellaneous intracranial and intraspinal neoplasms (III): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Behaviour	0-14						0-19						0-4						5-9						10-14						15-19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		Non-malignant			Malignant			Non-malignant			Malignant			Non-malignant			Malignant			Non-malignant			Malignant			Non-malignant			Malignant			Non-malignant			Malignant																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR	

Table 10.1. CNS and miscellaneous intracranial and intraspinal neoplasms (III): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Behaviour	0-14				0-19				0-4				5-9				10-14				15-19			
		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant	
		N	ASR	N	ASR	N	ASR	N	ASR	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
ISRAEL, Jews (1990-2012)	128	4.2	863	28.7	187	4.7	1031	26.3	45	4.2	314	29.5	40	4.0	302	30.2	43	4.5	247	25.9	59	6.4	168	18.1	
ISRAEL, Non-Jews (1990-2012)	49	4.4	241	21.5	74	5.3	301	21.2	20	4.8	110	26.5	14	3.7	75	19.7	15	4.5	56	16.7	25	8.5	60	20.4	
JAPAN, 8 registries (1990-2013)	444	7.3	1130	19.1	647	7.5	1365	17.0	138	7.2	423	22.2	147	7.3	374	18.6	159	7.4	333	15.4	203	8.4	235	9.7	
JORDAN, Jordanians (2000-2012)	3	0.1	474	17.5	3	0.1	555	15.8	1	0.1	161	17.3	1	0.1	196	21.4	1	0.1	117	13.4	0	0.0	81	10.1	
REPUBLIC OF KOREA (1999-2012)	0	0.0	2260	18.3	0	0.0	2908	17.2	0	0.0	781	21.1	0	0.0	784	18.1	0	0.0	695	14.9	0	0.0	648	13.4	
KUWAIT (1994-2012)	29	2.4	104	8.6	46	3.1	139	9.1	15	3.4	39	8.7	7	1.7	32	7.9	7	1.9	33	9.1	17	5.2	35	10.8	
KUWAIT, Kuwaitis (1994-2012)	23	3.3	64	9.0	32	3.6	90	10.1	12	4.6	26	9.9	5	2.1	17	7.1	6	2.8	21	9.8	9	4.8	26	13.8	
KUWAIT, Non-Kuwaitis (1994-2012)	6	1.2	40	8.0	14	2.3	49	7.7	3	1.6	13	7.0	2	1.2	15	9.0	1	0.7	12	8.1	8	5.9	9	6.6	
LEBANON (2008-2010)	0	0.0	74	21.0	0	0.0	91	19.3	0	0.0	26	24.7	0	0.0	23	18.3	0	0.0	25	19.0	0	0.0	17	13.7	
PAKISTAN, Karachi (1995-2002)	0	0.0	77	13.0	0	0.0	108	14.9	0	0.0	9	4.5	0	0.0	35	17.8	0	0.0	33	19.2	0	0.0	31	21.5	
PAKISTAN, Lahore (2008-2012)	46	2.4	126	6.7	72	2.9	169	7.0	9	1.5	35	5.9	15	2.3	50	7.8	22	3.5	41	6.5	26	4.8	43	8.0	
PHILIPPINES, 2 registries (1993-2012)	5	0.1	891	11.8	5	0.0	1065	10.7	0	0.0	257	9.3	2	0.1	378	15.1	3	0.1	256	11.2	0	0.0	174	7.3	
QATAR (2002-2014)	7	2.4	34	11.5	8	2.1	42	11.2	4	3.6	15	13.6	1	1.0	13	13.0	2	2.3	6	7.0	1	1.3	8	10.0	
SAUDI ARABIA, Riyadh (1994-2012)	0	0.0	523	15.6	0	0.0	613	14.4	0	0.0	189	15.7	0	0.0	202	17.7	0	0.0	132	12.9	0	0.0	90	10.4	
SAUDI ARABIA, Riyadh, Saudis (1994-2012)	0	0.0	430	15.5	0	0.0	500	14.1	0	0.0	169	17.1	0	0.0	166	17.6	0	0.0	95	11.1	0	0.0	70	9.4	
SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	0	0.0	93	16.2	0	0.0	113	16.3	0	0.0	20	9.4	0	0.0	36	18.6	0	0.0	37	22.8	0	0.0	20	16.4	
THAILAND, 6 registries (1993-2013)	35	0.9	571	14.5	40	0.7	714	13.2	9	0.7	172	14.0	14	1.1	214	16.1	12	0.9	185	13.2	5	0.3	143	8.9	
TURKEY, paediatric (2009-2011)	170	3.1	583	10.6	-	-	-	-	64	3.5	224	12.1	57	3.1	232	12.6	49	2.5	127	6.5	-	-	-	-	
TURKEY, 8 registries (1992-2012)	351	8.5	817	21.2	571	10.1	1058	20.2	78	6.3	301	24.1	112	8.5	295	22.5	161	11.5	221	15.8	220	15.4	241	16.9	
VIET NAM, Ho Chi Minh City (1995-2013)	16	0.7	272	11.2	20	0.6	345	10.1	5	0.6	90	10.9	7	0.9	95	11.6	4	0.5	87	11.0	4	0.4	73	6.5	
EUROPE																									
AUSTRIA (1990-2012)	275	9.0	804	26.8	351	8.5	1005	24.8	92	9.4	311	31.9	87	8.5	263	25.6	96	9.0	230	21.5	76	6.8	201	18.0	
BELGIUM, paediatric (1990-2014)	416	9.3	1021	23.7	479	8.0	1265	21.4	117	8.6	372	27.4	142	9.8	352	24.4	157	9.5	297	18.0	63	3.5	244	13.5	
BELGIUM (2004-2013)	424	23.5	420	23.3	576	23.6	517	21.5	165	27.0	164	26.9	129	21.6	129	21.6	130	21.1	127	20.6	152	23.8	97	15.2	
BULGARIA (1990-2013)	40	1.3	524	17.5	54	1.3	706	16.8	9	1.0	173	18.8	18	1.8	176	17.7	13	1.2	175	15.6	14	1.1	182	14.4	
CROATIA (2001-2014)	124	12.8	291	32.7	199	14.7	374	30.6	30	10.2	127	43.3	37	12.0	93	30.1	57	17.2	71	21.4	75	21.0	83	23.3	
CYPRUS, South-West (1998-2012)	0	0.0	52	25.2	0	0.0	64	22.6	0	0.0	24	35.5	0	0.0	16	22.1	0	0.0	12	15.0	0	0.0	12	13.5	
CZECH REPUBLIC (1990-2012)	339	8.6	984	25.4	418	7.8	1256	23.4	113	9.2	357	29.0	110	8.6	325	25.3	116	8.0	302	20.9	79	4.7	272	16.3	
ESTONIA (1990-2012)	74	12.3	153	27.3	105	12.7	197	25.6	20	11.2	59	33.1	18	9.3	50	25.8	36	17.2	44	21.1	31	13.9	44	19.8	
FRANCE, paediatric (2000-2012)	2414	16.3	3012	21.1	-	-	-	-	795	16.2	1322	27.0	778	15.9	1009	20.7	841	17.0	681	13.8	-	-	-	-	
FRANCE, 13 registries (1993-2012)	404	12.8	667	21.8	530	12.5	786	19.3	127	12.4	258	25.1	126	12.1	238	22.8	151	14.2	171	16.1	126	11.4	119	10.8	
GERMANY, paediatric (1996-2012)	2973	14.6	4226	21.5	-	-	-	-	915	14.6	1670	26.6	1039	15.3	1439	21.1	1019	13.9	1117	15.2	-	-	-	-	
GERMANY, 6 Eastern states (2001-2007)	0	0.0	295	22.5	0	0.0	406	20.8	0	0.0	109	24.8	0	0.0	99	24.7	0	0.0	87	17.1	0	0.0	111	14.7	
GERMANY, 5 Western registries (1994-2012)	435	8.9	1118	23.5	587	8.7	1387	21.4	143	9.6	432	29.1	137	8.3	358	21.6	155	8.6	328	18.1	152	8.1	269	14.4	
GREECE, paediatric, CNS tumours (2010-2014)	77	9.7	174	22.3	-	-	-	-	30	10.9	85	31.0	31	11.5	58	21.6	16	6.0	31	11.5	-	-	-	-	
HUNGARY, paediatric (1991-2014)	467	11.9	993	25.2	-	-	-	-	168	13.5	357	28.7	158	11.9	323	24.4	141	9.7	313	21.6	-	-	-	-	
ICELAND (1990-2014)	27	16.2	43	26.0	36	16.2	52	23.8	7	12.6	15	27.0	10	18.5	9	16.6	10	18.4	19	35.0	9	16.4	9	16.4	
IRELAND (1994-2012)	238	14.2	405	24.8	341	14.9	534	24.1	76	13.7	158	28.6	69	12.6	140	25.6	93	16.4	107	18.9	103	17.4	129	21.7	
ITALY, 2 paediatric registries (1998-2011)	193	23.0	216	26.2	236	21.2	273	24.7	73	25.7	92	32.4	55	19.7	66	23.6	65	23.3	58	20.8	43	14.9	57	19.8	
ITALY, Piedmont, paediatric (1990-2011)	266	22.6	277	23.9	-	-	-	-	90	23.2	103	26.5	82	21.2	98	25.4	94	23.4	76	18.9	-	-	-	-	
ITALY, 26 registries (1992-2013)	540	13.2	1014	25.1	772	13.7	1270	23.3	186	13.6	392	28.6	169	12.5	356	26.3	185	13.3	266	19.2	232	15.4	256	17.0	
LITHUANIA (2000-2012)	13	1.8	138	20.3	15	1.5	204	20.4	3	1.5	52	25.8	4	1.8	39	17.1	6	2.1	47	16.6	2	0.6	66	20.8	
MALTA (1994-2013)	4	2.8	41	28.6	7	3.4	46	24.2	1	2.3	13	29.8	2	4.2	13	27.2	1	1.9	15	28.6	3	5.3	5	8.9	
THE NETHERLANDS (1993-2013)	827	13.4	1236	20.6	1177	14.2	1504	18.9	243	11.9	505	24.8	295	14.3	411	20.0	289	14.2	320	15.7	350	17.3	268	13.2	
NORWAY (1990-2013)	495	23.4	521	25.2	709	25.0	665	24.1	186	26.0	220	30.7	133	18.8	186	26.3	176	25.2	115	16.5	214	30.5	144	20.5	
POLAND (2001-2013)	153	2.0	1831	23.3	207	1.9	2534	22.4	63	2.5	647	26.0	49	1.9	602	23.4	41	1.4	582	19.4	54	1.5	703	19.6	
PORTUGAL (1991-2012)	324	12.1	654	24.8	433	11.8	802	22.5	118	13.5	267	30.5	109	12.2	203	22.7	97	10.3	184	19.6	109	10.6	148	14.4	
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	100	11.0	170	20.5	-	-	-	-	22	8.2	60	22.4	33	12.7	65	24.9	45	12.9							

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Behaviour	Age group (years)						0-4						5-9						10-14						15-19					
	0-14			0-19			0-4			5-9			10-14			15-19			0-14			5-9			10-14			15-19		
	Non-malignant	Malignant	ASR	Non-malignant	Malignant	ASR	Non-malignant	Malignant	ASR	Non-malignant	Malignant	Rate	Non-malignant	Malignant	Rate	Non-malignant	Malignant	Rate	Non-malignant	Malignant	Rate	Non-malignant	Malignant	Rate	Non-malignant	Malignant	Rate	Non-malignant	Malignant	Rate
SWEDEN (1990-2011)	510	14.5	858	24.8	653	13.9	1076	23.2	176	15.1	331	28.4	161	13.8	280	24.0	173	14.6	247	20.8	143	11.7	218	17.8						
SWITZERLAND, paediatric (1990-2013)	404	13.7	580	20.6	-	-	-	-	112	11.8	228	24.1	134	13.9	234	24.2	158	15.9	118	11.9	-	-	-	-						
SWITZERLAND, 7 registries (1990-2013)	179	16.6	217	20.7	232	16.1	270	19.3	50	14.1	78	22.1	57	16.1	87	24.6	72	20.3	52	14.6	53	14.5	53	14.5						
UKRAINE (2002-2012)	0	0.0	1749	23.6	0	0.0	2390	22.2	0	0.0	591	25.0	0	0.0	586	25.1	0	0.0	572	20.0	0	0.0	631	17.2						
UK (2000-2011)	1246	9.5	2742	21.3	1539	8.8	3369	19.5	412	9.6	1071	24.8	421	9.8	948	22.0	413	9.0	723	15.8	283	6.3	627	13.5						
UK, England and Wales, paediatric (1991-2010)	2767	14.0	4282	22.3	-	-	-	-	842	13.0	1720	26.5	907	13.9	1476	22.6	1018	13.4	1086	16.4	-	-	-	-						
OCEANIA	188	2.1	1983	23.2	239	2.0	2442	21.4	57	2.0	858	29.4	69	2.4	651	22.2	62	2.1	474	16.1	51	1.7	459	15.4						
AUSTRALIA (1992-2014)	7	2.9	38	16.0	8	2.6	44	14.5	1	1.2	17	19.7	4	5.0	14	17.5	2	2.8	7	9.6	1	1.6	6	9.4						
AUSTRALIA, 3 registries, Indigenous (1992-2014)	16	5.1	56	18.5	17	4.2	63	15.9	3	3.0	16	16.1	8	7.8	30	29.2	5	4.9	10	9.8	1	1.0	7	7.1						
FRANCE, 2 registries (1990-2013)	0	0.0	441	25.5	0	0.0	537	23.5	0	0.0	174	29.6	0	0.0	152	26.0	0	0.0	115	19.6	0	0.0	96	16.4						
NEW ZEALAND (1993-2012)	0	0.0	96	22.3	0	0.0	109	19.7	0	0.0	40	25.4	0	0.0	35	24.5	0	0.0	21	15.7	0	0.0	13	10.7						
NEW ZEALAND, Māori (1993-2012)	0	0.0	49	32.0	0	0.0	58	29.4	0	0.0	20	36.0	0	0.0	19	37.0	0	0.0	10	21.1	0	0.0	9	20.3						
NEW ZEALAND, Pacific peoples (1993-2012)	0	0.0	296	25.8	0	0.0	370	24.0	0	0.0	114	30.4	0	0.0	98	25.0	0	0.0	84	20.7	0	0.0	74	17.7						
NEW ZEALAND, Other (1993-2012)	153	13.2	224	19.8	-	-	-	-	49	12.8	91	23.8	56	14.7	72	18.9	48	12.1	61	15.4	-	-	-	-						
NEW ZEALAND, paediatric (2000-2012)	26	9.0	48	17.0	-	-	-	-	8	7.9	20	19.6	10	10.7	18	19.3	8	8.8	10	10.9	-	-	-	-						
NEW ZEALAND, paediatric, Māori (2000-2012)	127	14.6	176	20.7	-	-	-	-	41	14.6	71	25.3	46	16.0	54	18.8	40	13.1	51	16.7	-	-	-	-						
NEW ZEALAND, paediatric, Non-Māori (2000-2012)																														

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results

Italic when fewer than 20 cases of CNS tumour in a dataset

Dataset presented only if eligible (see Chapter 5)

Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets

Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.2. Ependymomas and choroid plexus tumour (IIla): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Ependymoma and choroid plexus tumour (IIa)						Ependymoma (IIa1)						Choroid plexus tumour (IIa2)														
	0-14			15-19			0-14			15-19			0-14			15-19											
	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant									
	N	ASR	N	ASR	N	Rate	N	Rate	N	ASR	N	Rate	N	ASR	N	Rate	N	ASR	N	Rate							
AFRICA	ALGERIA, 5 registries (1996-2014)	0	0.0	6	0.4	0	0.0	2	0.3	0	0.0	6	0.4	0	0.0	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0		
	BOTSWANA (1999-2007)	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0		
	CAMEROON, Yaoundé (2004-2006)	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
	EGYPT, Gharbani (1999-2010)	0	0.0	23	1.6	0	0.0	6	1.1	0	0.0	22	1.6	0	0.0	6	1.1	0	0.0	1	0.1	0	0.0	0	0.0		
	FRANCE, Réunion (1990-2011)	0	0.0	8	1.9	0	0.0	1	0.7	0	0.0	7	1.6	0	0.0	1	0.7	0	0.0	1	0.3	0	0.0	0	0.0		
	KENYA, 2 registries (2000-2012)	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
	LIBYA, Benghazi (2003-2008)	0	0.0	3	1.0	0	0.0	0	0.0	0	0.0	3	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
	MAI, Bamako (2005-2014)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
	MAURITIUS (2001-2013)	0	0.0	0	0.0	0	0.0	2	1.5	0	0.0	0	0.0	0	0.0	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0		
	MOROCCO, 2 registries (2005-2012)	0	0.0	29	3.4	0	0.0	5	1.5	0	0.0	28	3.3	0	0.0	5	1.5	0	0.0	1	0.1	0	0.0	0	0.0		
	SOUTH AFRICA, paediatric (1998-2012)	4	0.0	127	0.6	-	-	-	-	-	0	0.0	108	0.5	-	-	4	0.0	19	0.1	-	-	-	-	-	-	
	SOUTH AFRICA, paediatric, Asian (1998-2012)	0	0.0	1	0.2	-	-	-	-	-	0	0.0	1	0.2	-	-	0	0.0	0	0.0	-	-	-	-	-	-	
	SOUTH AFRICA, paediatric, Black (1998-2012)	2	0.0	73	0.4	-	-	-	-	-	0	0.0	61	0.3	-	-	2	0.0	12	0.1	-	-	-	-	-	-	
	SOUTH AFRICA, paediatric, Coloured (1998-2012)	1	0.1	33	1.9	-	-	-	-	-	0	0.0	27	1.5	-	-	1	0.1	6	0.4	-	-	-	-	-	-	
	SOUTH AFRICA, paediatric, White (1998-2012)	1	0.1	20	1.8	-	-	-	-	-	0	0.0	19	1.7	-	-	1	0.1	1	0.1	-	-	-	-	-	-	
	TUNISIA, 2 registries (1993-2007)	0	0.0	26	1.4	0	0.0	7	1.0	0	0.0	26	1.4	0	0.0	7	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	UGANDA, Kyadondo (1996-2013)	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	ZIMBABWE, Harare, African (1995-2013)	0	0.0	4	0.5	0	0.0	0	0.0	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
	AMERICA, LATIN AND THE CARIBBEAN																										
	ARGENTINA, paediatric (2000-2013)	1	0.0	397	2.9	-	-	-	-	-	1	0.0	325	2.4	-	-	0	0.0	72	0.5	-	-	-	-	-	-	-
	ARGENTINA, 6 registries (1991-2013)	4	0.2	61	3.0	1	0.1	8	1.1	0	0.0	54	2.7	1	0.1	8	1.1	3	0.2	7	0.3	0	0.0	0	0.0	0	0.0
	BRAZIL, 5 registries (1995-2012)	0	0.0	47	2.8	0	0.0	12	1.6	0	0.0	33	1.9	0	0.0	9	1.2	0	0.0	14	0.9	0	0.0	3	0.4	0	0.0
	CHILE, paediatric (2007-2011)	5	0.3	46	2.6	-	-	-	-	-	1	0.0	44	2.5	-	-	4	0.3	2	0.1	-	-	-	-	-	-	-
	CHILE, 4 registries (1998-2012)	4	1.1	12	3.0	2	1.2	0	0.0	0	0.0	11	2.7	2	1.2	0	0.0	4	1.1	1	0.3	0	0.0	0	0.0	0	0.0
	COLOMBIA, 4 registries (1992-2013)	3	0.2	44	2.6	1	0.2	8	1.3	1	0.1	41	2.4	1	0.2	8	1.3	2	0.1	3	0.2	0	0.0	0	0.0	0	0.0
	COSTA RICA (1993-2012)	0	0.0	57	2.6	0	0.0	4	0.5	0	0.0	56	2.5	0	0.0	4	0.5	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
CUBA (2000-2012)	0	0.0	55	2.2	0	0.0	9	0.9	0	0.0	52	2.1	0	0.0	8	0.8	0	0.0	3	0.1	0	0.0	1	0.1	0	0.0	
ECUADOR, 5 registries (1993-2013)	0	0.0	33	1.6	0	0.0	1	0.1	0	0.0	33	1.6	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
FRANCE, 3 registries (1990-2012)	1	0.4	10	3.6	1	0.9	1	0.9	0	0.0	9	3.2	1	0.9	1	0.9	1	0.4	1	0.4	0	0.0	0	0.0	0	0.0	
HONDURAS, Francisco Morazan (2002-2012)	0	0.0	10	2.0	0	0.0	2	1.3	0	0.0	10	2.0	0	0.0	2	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
JAMAICA, Kingston and St Andrew (1992-2012)	0	0.0	5	0.9	0	0.0	0	0.0	0	0.0	5	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
MEXICO, Mexico City, paediatric (1997-2013)	2	0.2	32	2.8	-	-	-	-	-	0	0.0	31	2.7	-	-	2	0.2	1	0.1	-	-	-	-	-	-	-	
PERU, Lima (2010-2012)	3	0.4	24	3.5	0	0.0	2	0.8	1	0.1	22	3.2	0	0.0	2	0.8	2	0.3	2	0.3	0	0.0	0	0.0	0	0.0	
PERU, Trujillo (1990-2002)	0	0.0	3	1.1	0	0.0	0	0.0	0	0.0	3	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
USA, Puerto Rico (1992-2012)	8	0.5	43	2.6	4	0.6	6	0.9	3	0.1	36	2.2	3	0.5	5	0.8	5	0.3	7	0.4	1	0.2	1	0.2	1	0.2	
URUGUAY (1993-2012)	0	0.0	63	4.2	0	0.0	5	1.0	0	0.0	63	4.2	0	0.0	5	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
AMERICA, NORTH																											
CANADA, 9 registries (1992-2013)	35	0.3	344	3.3	7	0.2	60	1.4	14	0.1	304	2.9	6	0.1	58	1.4	21	0.2	40	0.4	1	0.0	2	0.0	0	0.0	
USA (2004-2012)	596	1.1	1602	3.1	240	1.2	331	1.7	162	0.3	1436	2.8	161	0.8	324	1.7	434	0.9	166	0.3	79	0.4	7	0.0	0	0.0	
USA, API (2004-2012)	19	0.7	68	2.4	10	1.0	15	1.5	7	0.2	58	2.1	7	0.7	14	1.4	12	0.4	10	0.4	3	0.3	1	0.1	0	0.0	
USA, Black (2004-2012)	61	0.7	210	2.5	18	0.5	37	1.1	14	0.1	197	2.3	10	0.3	35	1.1	47	0.6	13	0.2	8	0.2	2	0.1	0	0.0	
USA, Hispanic White (2004-2012)	109	1.0	339	3.2	35	1.0	60	1.8	22	0.2	295	2.8	23	0.7	60	1.8	87	0.8	44	0.4	12	0.4	0	0.0	0	0.0	
USA, Native American (2004-2012)	4	0.4	16	1.8	5	1.5	3	0.9	1	0.1	16	1.8	3	0.9	3	0.9	3	0.3	0	0.0	2	0.6	0	0.0	0	0.0	
USA, White NH (2004-2012)	385	1.3	932	3.3	163	1.4	212	1.8	113	0.3	839	2.9	110	1.0	208	1.8	272	1.0	93	0.4	53	0.5	4	0.0	0	0.0	
USA, NPCR (2004-2012)	596	1.2	1527	3.1	240	1.3	321	1.7	162	0.3	1370	2.8	161	0.9	314	1.7	434	0.9	157	0.3	79	0.4	7	0.0	0	0.0	
USA, SEER 18 (2004-2012)	0	0.0	478	3.3	0	0.0	92	1.7	0	0.0	425	2.9	0	0.0	90	1.6	0	0.0	53	0.4	0	0.0	2	0.0	0	0.0	
USA, Hawaii, Hawaiian (2004-2012)	0	0.0	2	2.9	0	0.0	1	4.2	0	0.0	2	2.9	0	0.0	1	4.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
ASIA																											
BAHRAIN (1998-2012)	0	0.0	6	2.1	0	0.0	0	0.0	0	0.0	4	1.4	0	0.0	0	0.0	0	0.0	2	0.7	0	0.0	0	0.0	0	0.0	
CHINA, 6 registries (1990-2013)	11	0.2	99	2.0	1	0.0	32	1.1	1	0.0	91	1.8	1	0.0	31	1.1	10	0.2	8	0.2	0	0.0	1	0.0	0	0.0	
CHINA, Hong Kong (1990-2013)	0	0.0	53	2.5	0	0.0	13	1.2	0	0.0	47	2.2	0	0.0	13	1.2	0	0.0	6	0.3	0	0.0	0	0.0	0	0.0	
INDIA, 7 registries (1990-2013)	0	0.0	171	1.0	0	0.0	38	0.6	0	0.0	163	1.0	0	0.0	38	0.6	0	0.0	8	0.1	0	0.0	0	0.0	0	0.0	

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of ependymoma or choroid plexus tumour in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

Table 10.2. Ependymomas and choroid plexus tumour (IIla): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Behaviour	Ependymoma and choroid plexus tumour (IIla)						Ependymoma (IIla1)						Choroid plexus tumour (IIla2)					
		0-14			15-19			0-14			15-19			0-14			15-19		
		Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant
		N	ASR	N	Rate	N	Rate	N	ASR	N	Rate	N	Rate	N	ASR	N	Rate	N	Rate
	ISLAMIC REPUBLIC OF IRAN, Golestan (2004-2011)	0	0.0	4	1.2	0	0.0	4	1.2	0	0.0	3	1.8	0	0.0	0	0.0	0	0.0
	ISRAEL (1990-2012)	24	0.6	118	2.9	4	0.3	19	1.6	9	0.2	106	2.6	3	0.2	18	1.5	15	0.4
	ISRAEL, Jews (1990-2012)	20	0.7	88	3.0	3	0.3	14	1.5	7	0.2	81	2.8	2	0.2	14	1.5	13	0.5
	ISRAEL, Non-Jews (1990-2012)	4	0.4	30	2.7	1	0.3	5	1.7	2	0.2	25	2.3	1	0.3	4	1.4	2	0.2
	JAPAN, 8 registries (1990-2013)	27	0.5	131	2.4	0	0.0	9	0.4	0	0.0	124	2.2	0	0.0	9	0.4	27	0.5
	JORDAN, Jordanians (2000-2012)	0	0.0	48	1.8	0	0.0	9	1.1	0	0.0	43	1.6	0	0.0	9	1.1	0	0.0
	REPUBLIC OF KOREA (1999-2012)	0	0.0	241	2.2	0	0.0	48	1.0	0	0.0	213	1.9	0	0.0	46	1.0	0	0.0
	KUWAIT (1994-2012)	0	0.0	10	0.8	0	0.0	7	2.2	0	0.0	10	0.8	0	0.0	6	1.8	0	0.0
	KUWAIT, Kuwaitis (1994-2012)	0	0.0	6	0.8	0	0.0	4	2.1	0	0.0	6	0.8	0	0.0	3	1.6	0	0.0
	KUWAIT, Non-Kuwaitis (1994-2012)	0	0.0	4	0.8	0	0.0	3	2.2	0	0.0	4	0.8	0	0.0	3	2.2	0	0.0
	LEBANON (2008-2010)	0	0.0	6	2.1	0	0.0	1	0.8	0	0.0	5	1.8	0	0.0	1	0.8	0	0.0
	PAKISTAN, Karachi (1995-2002)	0	0.0	7	1.2	0	0.0	2	1.4	0	0.0	6	1.1	0	0.0	2	1.4	0	0.0
	PAKISTAN, Lahore (2008-2012)	4	0.2	23	1.3	5	0.9	4	0.7	2	0.1	22	1.2	5	0.9	4	0.7	2	0.1
	PHILIPPINES, 2 registries (1993-2012)	0	0.0	42	0.6	0	0.0	7	0.3	0	0.0	40	0.5	0	0.0	6	0.3	0	0.0
	QATAR (2002-2014)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	SAUDI ARABIA, Riyadh (1994-2012)	0	0.0	55	1.7	0	0.0	9	1.0	0	0.0	51	1.6	0	0.0	9	1.0	0	0.0
	SAUDI ARABIA, Riyadh, Saudis (1994-2012)	0	0.0	43	1.6	0	0.0	7	0.9	0	0.0	39	1.4	0	0.0	7	0.9	0	0.0
	SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	0	0.0	12	2.1	0	0.0	2	1.6	0	0.0	12	2.1	0	0.0	2	1.6	0	0.0
	THAILAND, 6 registries (1993-2013)	0	0.0	38	1.0	0	0.0	6	0.4	0	0.0	35	0.9	0	0.0	6	0.4	0	0.0
	TURKEY, paediatric (2009-2011)	13	0.2	87	1.7	-	-	-	-	5	0.1	82	1.6	-	-	8	0.2	5	0.1
	TURKEY, 8 registries (1992-2012)	15	0.4	116	3.3	7	0.5	27	1.9	3	0.1	109	3.0	5	0.3	24	1.7	12	0.3
	VIET NAM, Ho Chi Minh City (1995-2013)	0	0.0	11	0.5	0	0.0	2	0.2	0	0.0	10	0.4	0	0.0	2	0.2	0	0.0
	EUROPE	8	0.3	91	3.1	1	0.1	11	1.0	3	0.1	79	2.7	1	0.1	11	1.0	5	0.2
	AUSTRIA (1990-2012)	17	0.4	93	2.3	2	0.1	21	1.2	4	0.1	90	2.2	0	0.0	20	1.1	13	0.3
	BELARUS, paediatric (1990-2014)	23	1.4	66	3.9	8	1.3	13	2.0	1	0.0	52	3.0	8	1.3	13	2.0	22	1.3
	BELGIUM (2004-2013)	0	0.0	35	1.2	0	0.0	19	1.5	0	0.0	30	1.0	0	0.0	18	1.4	0	0.0
	BULGARIA (1990-2013)	2	0.2	38	4.7	1	0.3	4	1.1	2	0.2	38	4.7	0	0.0	4	1.1	0	0.0
	CROATIA (2001-2014)	0	0.0	5	2.9	0	0.0	0	0.0	0	0.0	4	2.3	0	0.0	0	0.0	0	0.0
	CYPRUS, South-West (1998-2012)	16	0.4	149	4.0	4	0.2	32	1.9	7	0.2	130	3.5	1	0.1	29	1.7	9	0.2
	CZECH REPUBLIC (1990-2012)	4	0.9	26	5.1	1	0.4	1	0.4	0	0.0	23	4.6	1	0.4	4	0.9	3	0.5
	ESTONIA (1990-2012)	146	1.0	384	2.8	-	-	-	-	38	0.2	341	2.4	-	-	108	0.8	43	0.3
	FRANCE, paediatric (2000-2012)	20	0.7	74	2.5	7	0.6	12	1.1	3	0.1	70	2.4	4	0.4	12	1.1	17	0.6
	FRANCE, 13 registries (1993-2012)	129	0.7	576	3.1	-	-	-	-	28	0.1	525	2.8	-	-	101	0.6	51	0.3
	GERMANY, paediatric (1996-2012)	0	0.0	37	2.9	0	0.0	14	1.9	0	0.0	36	2.8	0	0.0	14	1.9	0	0.0
	GERMANY, 6 Eastern states (2001-2007)	15	0.3	165	3.7	5	0.3	22	1.2	4	0.1	151	3.4	4	0.2	22	1.2	11	0.3
	GERMANY, 5 Western registries (1994-2012)	3	0.4	22	3.0	-	-	-	-	1	0.1	21	2.8	-	-	2	0.3	1	0.1
	GREECE, paediatric, CNS tumours (2010-2014)	28	0.8	128	3.5	-	-	-	-	10	0.2	113	3.1	-	-	18	0.5	15	0.4
	HUNGARY, paediatric (1991-2014)	7	0.6	2	1.7	0	0.0	1	1.8	1	0.6	2	1.1	0	0.0	1	1.8	0	0.0
	ICELAND (1990-2014)	9	0.6	40	2.5	6	1.0	8	1.3	2	0.1	38	2.4	4	0.7	8	1.3	7	0.5
	IRELAND (1994-2012)	12	1.5	38	4.8	1	0.3	10	3.5	2	0.2	33	4.2	0	0.0	9	3.1	10	1.3
	ITALY, 2 paediatric registries (1998-2011)	17	1.6	57	5.1	-	-	-	-	2	0.2	54	4.9	-	-	15	1.4	3	0.3
	ITALY, Piedmont, paediatric (1990-2011)	28	0.7	128	3.3	6	0.4	23	1.5	16	0.4	125	3.2	6	0.4	22	1.5	12	0.3
	ITALY, 26 registries (1992-2013)	7	0.1	13	1.8	0	0.0	5	1.6	0	0.0	13	1.8	0	0.0	5	1.6	1	0.1
	LITHUANIA (2000-2012)	0	0.0	2	1.8	0	0.0	0	0.0	0	0.0	2	1.8	0	0.0	0	0.0	0	0.0
	MALTA (1994-2013)	46	0.8	188	3.2	17	0.8	34	1.7	20	0.3	171	2.9	17	0.8	33	1.6	26	0.5
	THE NETHERLANDS (1993-2013)	33	1.6	51	2.6	14	2.0	3	0.4	9	0.4	45	2.3	12	1.7	3	0.4	24	1.2
	NORWAY (1990-2013)	0	0.0	226	3.0	0	0.0	74	2.1	0	0.0	199	2.6	0	0.0	74	2.1	0	0.0
	POLAND (2001-2013)	15	0.6	103	4.1	1	0.1	17	1.7	3	0.1	89	3.5	0	0.0	15	1.5	12	0.5
	PORTUGAL (1991-2012)	4	0.4	25	3.2	-	-	-	-	2	0.2	19	2.3	-	-	2	0.3	6	0.8
	RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	1	0.1	28	2.7	0	0.0	5	1.0	1	0.1	21	2.0	0	0.0	5	1.0	0	0.0
	RUSSIAN FEDERATION, 2 registries (1998-2015)	11	0.6	67	3.3	2	0.2	14	1.6	5	0.3	55	2.7	2	0.2	12	1.4	6	0.4
	SLOVAKIA (1990-2009)	1	0.1	32	2.8	-	-	-	-	1	0.1	30	2.6	-	-	0	0.0	2	0.1
	SLOVAKIA, paediatric (2000-2012)	3	0.5	26	4.3	0	0.0	2	0.7	0	0.0	20	3.3	0	0.0	2	0.7	3	0.5
	SLOVENIA (1991-2012)																		

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World Standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of ependymoma or choroid plexus tumour in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

Table 10.2. Ependymomas and choroid plexus tumour (IIla): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Ependymoma and choroid plexus tumour (IIla)										Choroid plexus tumour (IIla2)									
	0-14					15-19					0-14					15-19				
	Behaviour		Malignant		Rate	Malignant		Rate	N	Rate	Malignant		Rate	N	Rate	Malignant		Rate	N	Rate
	Non-malignant	ASR	Non-malignant	ASR		Non-malignant	ASR				Non-malignant	ASR				Non-malignant	ASR			
SPAIN, 2 paediatric registries (1991-2013)	34	0.7	163	3.6	-	-	-	-	15	0.3	151	3.3	-	-	-	19	0.4	12	0.3	-
SPAIN, selected regions, paediatric (2000-2013)	22	0.6	122	3.6	-	-	-	-	8	0.2	113	3.4	-	-	-	14	0.4	9	0.3	-
SPAIN, Valencia, paediatric (1991-2010)	12	0.8	41	3.4	-	-	-	-	7	0.4	38	3.1	-	-	-	5	0.4	3	0.3	-
SPAIN, 11 registries (1990-2013)	17	0.6	93	3.2	9	0.7	21	1.6	5	0.1	86	3.0	6	0.5	21	1.6	12	0.4	7	0.3
SWEDEN (1990-2011)	21	0.7	126	3.7	3	0.2	32	2.6	2	0.1	119	3.5	2	0.2	32	2.6	19	0.6	7	0.2
SWITZERLAND, paediatric (1990-2013)	22	0.8	76	2.9	-	-	-	-	3	0.1	69	2.6	-	-	-	19	0.7	7	0.3	-
SWITZERLAND, 7 registries (1990-2013)	19	1.9	28	2.8	5	1.4	7	1.9	12	1.2	28	2.8	5	1.4	7	1.9	7	0.7	0	0.0
UKRAINE (2002-2012)	0	0.0	158	2.2	0	0.0	36	1.0	0	0.0	154	2.2	0	0.0	36	1.0	0	0.0	4	0.1
UK (2000-2011)	18	0.1	361	3.0	7	0.2	46	1.0	3	0.0	315	2.6	7	0.2	46	1.0	15	0.1	46	0.4
UK, England and Wales, paediatric (1991-2010)	162	0.9	534	2.9	-	-	-	-	48	0.2	465	2.5	-	-	-	114	0.6	69	0.4	-
OCEANIA																				
AUSTRALIA (1992-2014)	17	0.2	248	3.0	1	0.0	54	1.8	6	0.1	227	2.8	1	0.0	54	1.8	11	0.1	21	0.3
AUSTRALIA, 3 registries, Indigenous (1992-2014)	0	0.0	5	2.1	0	0.0	0	0.0	0	0.0	5	2.1	0	0.0	0	0.0	0	0.0	0	0.0
FRANCE, 2 registries (1990-2013)	1	0.3	6	2.2	0	0.0	0	0.0	1	0.3	6	2.2	0	0.0	0	0.0	0	0.0	0	0.0
NEW ZEALAND (1993-2012)	0	0.0	48	2.9	0	0.0	10	1.7	0	0.0	45	2.7	0	0.0	10	1.7	0	0.0	3	0.2
NEW ZEALAND, Maori (1993-2012)	0	0.0	9	2.1	0	0.0	1	0.8	0	0.0	9	2.1	0	0.0	1	0.8	0	0.0	0	0.0
NEW ZEALAND, Pacific peoples (1993-2012)	0	0.0	4	2.6	0	0.0	0	0.0	0	0.0	4	2.6	0	0.0	0	0.0	0	0.0	0	0.0
NEW ZEALAND, Other (1993-2012)	0	0.0	35	3.2	0	0.0	9	2.1	0	0.0	32	2.9	0	0.0	9	2.1	0	0.0	3	0.3
NEW ZEALAND, paediatric (2000-2012)	6	0.5	32	2.9	-	-	-	-	2	0.1	29	2.6	-	-	-	4	0.4	3	0.3	-
NEW ZEALAND, paediatric, Maori (2000-2012)	0	0.0	6	2.1	-	-	-	-	0	0.0	5	1.8	-	-	-	0	0.0	1	0.4	-
NEW ZEALAND, paediatric, Non-Maori (2000-2012)	6	0.7	26	3.2	-	-	-	-	2	0.2	24	2.9	-	-	-	4	0.5	2	0.3	-

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results

Italic when fewer than 20 cases of ependymoma or choroid plexus tumour in a dataset

Dataset presented only if eligible (see Chapter 5)

Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets

Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.3. Astrocytomas (IIlb): numbers of cases and incidence rates per million by age and coded behaviour

Age group (years)	Astrocytoma (IIlb)						Piloytic astrocytoma (M-9421)						Other astrocytomas											
	0-14			15-19			0-14			15-19			0-14			15-19								
	Non-malignant		Behaviour	Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant						
	N	ASR		N	ASR	N	Rate	N	Rate	N	ASR	N	Rate	N	ASR	N	Rate	N	Rate					
AFRICA																								
ALGERIA, 5 registries (1996-2014)	2	0.1	52	2.9	0	0.0	25	3.7	1	0.1	0	0.0	0	0.0	1	0.1	52	2.9	0	0.0	24	3.5		
BOTSWANA (1999-2007)	0	0.0	10	1.6	0	0.0	3	1.7	0	0.0	0	0.0	0	0.0	0	0.0	10	1.6	0	0.0	3	1.7		
CAMEROON, Yaoundé (2004-2006)	0	0.0	3	1.3	0	0.0	1	1.6	0	0.0	0	0.0	0	0.0	0	0.0	3	1.3	0	0.0	1	1.6		
EGYPT, Gharian (1999-2010)	2	0.1	78	5.0	0	0.0	37	6.8	1	0.1	8	0.5	0	0.0	1	0.1	70	4.5	0	0.0	37	6.8		
FRANCE, Réunion (1990-2011)	0	0.0	12	2.7	0	0.0	6	4.2	0	0.0	0	0.0	0	0.0	0	0.0	12	2.7	0	0.0	6	4.2		
KENYA, 2 registries (2000-2012)	0	0.0	15	1.4	0	0.0	6	2.0	0	0.0	0	0.0	0	0.0	0	0.0	15	1.4	0	0.0	6	2.0		
LIBYA, Benghazi (2003-2008)	4	1.4	12	4.1	0	0.0	4	4.0	4	1.4	0	0.0	0	0.0	0	0.0	12	4.1	0	0.0	4	4.0		
MAI, Bamako (2005-2014)	0	0.0	3	0.4	0	0.0	2	0.8	0	0.0	0	0.0	0	0.0	0	0.0	3	0.4	0	0.0	2	0.8		
MAURITIUS (2001-2013)	0	0.0	12	3.2	0	0.0	4	3.0	0	0.0	0	0.0	0	0.0	0	0.0	12	3.2	0	0.0	4	3.0		
MOROCCO, 2 registries (2005-2012)	14	1.6	30	3.2	5	1.5	9	2.8	14	1.6	3	0.3	5	1.5	0	0.0	27	2.8	0	0.0	9	2.8		
SOUTH AFRICA, paediatric (1998-2012)	0	0.0	335	1.5	-	-	-	-	0	0.0	0	0.0	-	-	0	0.0	335	1.5	-	-	0	-		
SOUTH AFRICA, paediatric, Asian (1998-2012)	0	0.0	10	2.7	-	-	-	-	0	0.0	0	0.0	-	-	0	0.0	10	2.7	-	-	0	-		
SOUTH AFRICA, paediatric, Black (1998-2012)	0	0.0	194	1.1	-	-	-	-	0	0.0	0	0.0	-	-	0	0.0	194	1.1	-	-	0	-		
SOUTH AFRICA, paediatric, Coloured (1998-2012)	0	0.0	72	3.8	-	-	-	-	0	0.0	0	0.0	-	-	0	0.0	72	3.8	-	-	0	-		
SOUTH AFRICA, paediatric, White (1998-2012)	0	0.0	59	5.3	-	-	-	-	0	0.0	0	0.0	-	-	0	0.0	59	5.3	-	-	0	-		
TUNISIA, 2 registries (1993-2007)	25	1.3	89	4.6	8	1.1	39	5.6	25	1.3	0	0.0	8	1.1	0	0.0	89	4.6	0	0.0	39	5.6		
UGANDA, Kyadondo (1996-2013)	0	0.0	6	0.4	0	0.0	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	6	0.4	0	0.0	2	0.4		
ZIMBABWE, Harare, African (1995-2013)	6	0.7	17	2.0	0	0.0	6	2.0	6	0.7	1	0.1	0	0.0	0	0.0	16	1.9	0	0.0	6	2.0		
AMERICA, LATIN AND THE CARIBBEAN																								
ARGENTINA, paediatric (2000-2013)	301	2.1	651	4.5	-	-	-	-	294	2.1	21	0.1	-	-	-	-	7	0.0	630	4.4	-	-		
ARGENTINA, 6 registries (1991-2013)	24	1.1	144	6.5	4	0.5	34	4.6	24	1.1	0	0.0	4	0.5	0	0.0	144	6.5	0	0.0	34	4.6		
BRAZIL, 5 registries (1995-2012)	32	1.8	136	7.3	2	0.3	51	7.0	31	1.7	32	1.8	2	0.3	5	0.7	1	0.1	104	5.6	0	0.0	46	6.3
CHILE, paediatric (2007-2011)	22	1.2	77	4.1	-	-	-	-	22	1.2	0	0.0	-	-	-	-	0	0.0	77	4.1	-	-		
CHILE, 4 registries (1998-2012)	7	1.6	26	5.8	0	0.0	8	4.7	7	1.6	0	0.0	0	0.0	0	0.0	26	5.8	0	0.0	8	4.7		
COLOMBIA, 4 registries (1992-2013)	40	2.2	122	7.1	2	0.3	32	5.2	39	2.2	0	0.0	2	0.3	0	0.0	1	0.0	122	7.1	0	0.0	32	5.2
COSTA RICA (1993-2012)	0	0.0	122	5.1	0	0.0	38	4.8	0	0.0	12	0.5	0	0.0	6	0.8	0	0.0	110	4.6	0	0.0	32	4.0
CUBA (2000-2012)	11	0.4	189	6.8	1	0.1	40	3.9	11	0.4	0	0.0	1	0.1	0	0.0	189	6.8	0	0.0	40	3.9		
ECUADOR, 5 registries (1993-2013)	1	0.0	145	6.7	0	0.0	52	7.1	1	0.0	13	0.6	0	0.0	3	0.4	0	0.0	132	6.1	0	0.0	49	6.6
FRANCE, 3 registries (1990-2012)	8	2.6	8	2.6	1	0.9	2	1.9	8	2.6	1	0.4	1	0.9	0	0.0	7	2.3	0	0.0	2	1.9		
HONDURAS, Francisco Morazán (2002-2012)	6	1.1	22	4.1	1	0.7	6	4.0	6	1.1	1	0.2	1	0.7	0	0.0	21	3.9	0	0.0	6	4.0		
JAMAICA, Kingston and St Andrew (1992-2012)	3	0.5	14	2.4	1	0.5	8	3.9	3	0.5	0	0.0	1	0.5	0	0.0	14	2.4	0	0.0	8	3.9		
MEXICO, Mexico City, paediatric (1997-2013)	0	0.0	95	8.0	-	-	-	-	0	0.0	17	1.5	-	-	-	-	0	0.0	78	6.5	-	-		
PERU, Lima (2010-2012)	11	1.6	32	4.4	1	0.4	11	4.2	11	1.6	0	0.0	1	0.4	0	0.0	32	4.4	0	0.0	11	4.2		
PERU, Trujillo (1990-2002)	0	0.0	13	5.2	0	0.0	3	3.4	0	0.0	0	0.0	0	0.0	0	0.0	13	5.2	0	0.0	3	3.4		
USA, Puerto Rico (1992-2012)	8	0.4	194	11.1	0	0.0	51	8.0	1	0.1	120	6.9	0	0.0	20	3.1	7	0.4	74	4.2	0	0.0	31	4.9
URUGUAY (1993-2012)	0	0.0	105	7.0	0	0.0	13	2.5	0	0.0	32	2.2	0	0.0	1	0.2	0	0.0	73	4.8	0	0.0	12	2.3
AMERICA, NORTH																								
CANADA, 9 registries (1992-2013)	84	0.7	1310	11.4	13	0.3	386	9.2	62	0.5	570	5.0	10	0.2	123	2.9	22	0.2	740	6.4	3	0.1	263	6.3
USA (2004-2012)	344	0.6	8995	16.6	76	0.4	2388	12.2	0	0.0	4990	9.2	0	0.0	1145	5.8	344	0.6	4005	7.5	76	0.4	1243	6.3
USA, API (2004-2012)	18	0.6	261	9.0	3	0.3	72	7.2	0	0.0	131	4.6	0	0.0	29	2.9	18	0.6	130	4.4	3	0.3	43	4.3
USA, Black (2004-2012)	62	0.7	1112	12.5	17	0.5	296	9.0	0	0.0	620	7.0	0	0.0	138	4.2	62	0.7	492	5.5	17	0.5	188	4.8
USA, Hispanic White (2004-2012)	60	0.6	1319	12.1	9	0.3	291	8.6	0	0.0	726	6.7	0	0.0	112	3.3	60	0.6	593	5.4	9	0.3	179	5.3
USA, Native American (2004-2012)	0	0.0	72	7.6	0	0.0	17	5.1	0	0.0	40	4.2	0	0.0	6	1.8	0	0.0	32	3.4	0	0.0	11	3.3
USA, White NH (2004-2012)	197	0.6	5941	19.6	44	0.4	1655	14.3	0	0.0	3303	10.8	0	0.0	828	7.2	197	0.6	2638	8.8	44	0.4	827	7.1
USA, NPCR (2004-2012)	344	0.7	8585	16.6	76	0.4	2299	12.3	0	0.0	4756	9.1	0	0.0	1097	5.8	344	0.7	3329	7.5	76	0.4	1202	6.4
USA, SEER 18 (2004-2012)	0	0.0	2483	16.0	0	0.0	660	11.9	0	0.0	1397	9.0	0	0.0	306	5.5	0	0.0	1086	7.0	0	0.0	354	6.4
USA, Hawaii, Hawaiian (2004-2012)	0	0.0	10	12.9	0	0.0	2	8.4	0	0.0	7	9.2	0	0.0	1	4.2	0	0.0	3	3.7	0	0.0	1	4.2
ASIA																								
BAHRAIN (1998-2012)	3	0.9	14	4.3	1	1.1	4	4.4	3	0.9	0	0.0	1	1.1	0	0.0	14	4.3	0	0.0	4	4.4		
CHINA, 6 registries (1990-2013)	110	2.0	271	4.7	36	1.3	134	4.7	110	2.0	1	0.0	35	1.2	0	0.0	270	4.7	1	0.0	134	4.7		
CHINA, Hong Kong (1990-2013)	0	0.0	219	8.7	0	0.0	82	7.9	0	0.0	90	3.6	0	0.0	24	2.3	0	0.0	129	5.0	0	0.0	58	5.6
INDIA, 7 registries (1990-2013)	0	0.0	716	4.1	0	0.0	264	4.2	0	0.0	3	0.0	0	0.0	1	0.0	0	0.0	713	4.0	0	0.0	263	4.1
ISLAMIC REPUBLIC OF IRAN, Golestan (2004-2011)	0	0.0	16	3.9	0	0.0	10	5.9	0	0.0	0	0.0	0	0.0	0	0.0	16	3.9	0	0.0	10	5.9		

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of astrocytoma in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

Table 10.3. Astrocytomas (IIlb): numbers of cases and incidence rates per million by age and coded behaviour

Age group (years)	Astrocytoma (IIb)						Pilocytic astrocytoma (M-9421)						Other astrocytomas													
	0-14			15-19			0-14			15-19			0-14			15-19										
	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant								
	N	ASR		N	Rate	N	Rate	N	ASR		N	Rate	N	ASR		N	Rate	N	Rate							
Behaviour	ISRAEL (1990-2012)	10	0.2	469	11.2	4	0.3	119	9.7	0	0.0	239	5.7	0	0.0	45	3.7	10	0.2	230	5.5	4	0.3	74	6.1	
	ISRAEL, Jews (1990-2012)	8	0.3	371	12.2	2	0.2	90	9.7	0	0.0	186	6.1	0	0.0	34	3.7	8	0.3	185	6.1	2	0.2	56	6.0	
	ISRAEL, Non-Jews (1990-2012)	2	0.2	98	8.7	2	0.7	29	9.8	0	0.0	53	4.7	0	0.0	11	3.7	2	0.2	45	4.0	2	0.7	18	6.1	
	JAPAN, 8 registries (1990-2013)	116	1.9	301	4.9	26	1.1	99	4.1	104	1.7	0	0.0	19	0.8	0	0.0	12	0.2	301	4.9	7	0.3	99	4.1	
	JORDAN, Jordanians (2000-2012)	0	0.0	168	6.1	0	0.0	44	5.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	168	6.1	0	0.0	44	5.5	
	REPUBLIC OF KOREA (1999-2012)	0	0.0	453	3.5	0	0.0	200	4.1	0	0.0	11	0.1	0	0.0	0	0.0	0	0.0	442	3.4	0	0.0	200	4.1	
	KUWAIT (1994-2012)	19	1.6	33	2.7	12	3.7	10	3.1	19	1.6	0	0.0	12	3.7	0	0.0	0	0.0	33	2.7	0	0.0	10	3.1	
	KUWAIT, Kuwaitis (1994-2012)	17	2.4	18	2.6	8	4.3	7	3.7	17	2.4	0	0.0	8	4.3	0	0.0	0	0.0	18	2.6	0	0.0	7	3.7	
	KUWAIT, Non-Kuwaitis (1994-2012)	2	0.4	15	3.0	4	2.9	3	2.2	2	0.4	0	0.0	4	2.9	0	0.0	0	0.0	15	3.0	0	0.0	3	2.2	
	LEBANON (2008-2010)	0	0.0	26	7.5	0	0.0	6	4.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	26	7.5	0	0.0	6	4.8	
	PAKISTAN, Karachi (1995-2002)	0	0.0	39	6.5	0	0.0	17	11.8	0	0.0	2	0.3	0	0.0	0	0.0	0	0.0	37	6.2	0	0.0	17	11.8	
	PAKISTAN, Lahore (2008-2012)	21	1.1	31	1.7	8	1.5	22	4.1	20	1.0	0	0.0	8	1.5	0	0.0	1	0.0	31	1.7	0	0.0	22	4.1	
	PHILIPPINES, 2 registries (1993-2012)	4	0.1	187	2.5	0	0.0	67	2.8	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	187	2.5	0	0.0	67	2.8	
	QATAR (2002-2014)	7	2.4	9	3.0	0	0.0	4	5.0	7	2.4	0	0.0	0	0.0	0	0.0	0	0.0	9	3.0	0	0.0	4	5.0	
	SAUDI ARABIA, Riyadh (1994-2012)	0	0.0	105	3.1	0	0.0	34	3.9	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	104	3.1	0	0.0	34	3.9	
	SAUDI ARABIA, Riyadh, Saudis (1994-2012)	0	0.0	86	3.1	0	0.0	31	4.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	86	3.1	0	0.0	31	4.1	
	SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	0	0.0	19	3.3	0	0.0	3	2.5	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	18	3.1	0	0.0	3	2.5	
	THAILAND, 6 registries (1993-2013)	30	0.8	164	4.1	3	0.2	68	4.2	30	0.8	1	0.0	3	0.2	0	0.0	0	0.0	163	4.1	0	0.0	68	4.2	
	TURKEY, paediatric (2009-2011)	109	2.0	130	2.3	-	-	-	-	107	1.9	0	0.0	-	-	-	-	2	0.0	130	2.3	-	-	-	-	-
	TURKEY, 8 registries (1992-2012)	157	3.9	204	5.2	31	2.2	89	6.2	150	3.7	16	0.4	29	2.0	3	0.2	7	0.2	188	4.8	2	0.1	86	6.0	
	VIET NAM, Ho Chi Minh City (1995-2013)	4	0.2	97	3.9	0	0.0	33	2.9	4	0.2	4	0.2	0	0.0	0	0.0	0	0.0	93	3.8	0	0.0	33	2.9	
	EUROPE	175	5.8	278	9.1	32	2.9	81	7.3	167	5.6	0	0.0	31	2.8	0	0.0	8	0.2	278	9.1	1	0.1	81	7.3	
	AUSTRIA (1990-2012)	244	5.5	288	6.4	24	1.3	107	5.9	238	5.4	0	0.0	21	1.2	0	0.0	6	0.1	288	6.4	3	0.2	107	5.9	
	BELARUS, paediatric (1990-2014)	260	14.5	104	5.6	51	8.0	48	7.5	226	12.5	0	0.0	47	7.4	0	0.0	34	2.0	104	5.6	4	0.6	48	7.5	
	BELGIUM (2004-2013)	40	1.3	144	4.6	14	1.1	86	6.8	40	1.3	0	0.0	14	1.1	0	0.0	0	0.0	144	4.6	0	0.0	86	6.8	
BULGARIA (1990-2013)	48	5.3	63	6.6	13	3.6	19	5.3	48	5.3	0	0.0	11	3.1	0	0.0	0	0.0	63	6.6	2	0.6	19	5.3		
CROATIA (2001-2014)	0	0.0	15	7.2	0	0.0	5	5.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	7.2	0	0.0	5	5.6		
CYPRUS, South-West (1998-2012)	234	6.0	323	8.2	53	3.2	109	6.5	232	6.0	0	0.0	52	3.1	0	0.0	2	0.0	323	8.2	1	0.1	109	6.5		
CZECH REPUBLIC (1990-2012)	37	6.2	61	10.4	5	2.2	23	10.3	35	6.0	0	0.0	5	2.2	0	0.0	2	0.3	61	10.4	0	0.0	23	10.3		
ESTONIA (1990-2012)	1270	8.7	718	5.1	-	-	-	-	1204	8.3	1	0.0	-	-	-	-	66	0.4	717	5.1	-	-	-	-	-	
FRANCE, paediatric (2000-2012)	222	7.1	164	5.3	47	4.3	33	3.0	211	6.8	0	0.0	40	3.6	0	0.0	11	0.3	164	5.3	7	0.6	33	3.0		
FRANCE, 13 registries (1993-2012)	1832	9.1	1535	7.6	-	-	-	-	1757	8.7	19	0.1	-	-	-	-	75	0.4	1516	7.5	-	-	-	-	-	
GERMANY, paediatric (1996-2012)	0	0.0	89	6.7	0	0.0	47	6.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	89	6.7	0	0.0	47	6.2		
GERMANY, 6 Eastern states (2001-2007)	274	5.6	371	7.4	58	3.1	155	8.3	261	5.3	17	0.3	56	3.0	2	0.1	13	0.2	354	7.1	2	0.1	153	8.2		
GERMANY, 5 Western registries (1994-2012)	42	5.3	40	5.0	-	-	-	-	39	5.0	0	0.0	-	-	-	-	3	0.4	40	5.0	-	-	-	-	-	
GREECE, paediatric, CNS tumours (2010-2014)	305	7.9	309	7.5	-	-	-	-	298	7.7	0	0.0	-	-	-	-	7	0.2	309	7.5	-	-	-	-	-	
HUNGARY, paediatric (1991-2014)	18	11.3	16	9.9	6	11.0	6	11.0	18	11.3	0	0.0	6	11.0	0	0.0	0	0.0	16	9.9	0	0.0	6	11.0		
ICELAND (1990-2014)	162	9.7	145	8.8	46	7.8	60	10.1	158	9.5	0	0.0	40	6.7	0	0.0	4	0.2	145	8.8	6	1.0	60	10.1		
IRELAND (1994-2012)	88	10.7	74	8.7	12	4.2	23	8.0	87	10.5	21	2.5	12	4.2	2	0.7	1	0.1	53	6.2	0	0.0	21	7.3		
ITALY, 2 paediatric registries (1998-2011)	138	11.8	78	6.5	-	-	-	-	138	11.8	0	0.0	-	-	-	-	0	0.0	78	6.5	-	-	-	-	-	
ITALY, Piedmont, paediatric (1990-2011)	262	6.5	268	6.5	45	3.0	90	6.0	251	6.2	4	0.1	44	2.9	0	0.0	11	0.3	264	6.4	1	0.1	90	6.0		
ITALY, 26 registries (1992-2013)	8	1.0	44	6.5	1	0.3	28	8.8	8	1.0	0	0.0	1	0.3	0	0.0	0	0.0	44	6.5	0	0.0	28	8.8		
LITHUANIA (2000-2012)	1	0.9	22	15.0	3	5.3	1	1.8	1	0.9	7	5.1	2	3.6	0	0.0	0	0.0	15	9.9	1	1.8	1	1.8		
MALTA (1994-2013)	493	8.1	292	4.8	101	5.0	126	6.2	470	7.7	0	0.0	96	4.7	0	0.0	23	0.4	292	4.8	5	0.2	126	6.2		
THE NETHERLANDS (1993-2013)	182	8.7	172	8.3	50	7.1	53	7.6	169	8.1	16	0.8	47	6.7	3	0.4	13	0.6	156	7.5	3	0.4	50	7.1		
NORWAY (1990-2013)	153	2.0	413	5.1	54	1.5	228	6.4	153	2.0	0	0.0	54	1.5	0	0.0	0	0.0	413	5.1	0	0.0	228	6.4		
POLAND (2001-2013)	213	8.0	194	7.2	58	5.7	51	5.0	209	7.9	0	0.0	55	5.4	0	0.0	4	0.1	194	7.2	3	0.3	51	5.0		
PORTUGAL (1991-2012)	56	6.4	61	7.1	-	-	-	-	54	6.2	0	0.0	-	-	-	-	2	0.2	61	7.1	-	-	-	-	-	
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	6	0.5	101	9.2	0	0.0	26	5.1	6	0.5	0	0.0	0	0.0	0	0.0	0	0.0	101	9.2	0	0.0	26	5.1		
RUSSIAN FEDERATION, 2 registries (1998-2015)	139	6.5	142	6.7	39	4.5	73	8.4	134	6.2	0	0.0	37	4.2	0	0.0	5	0.3	142	6.7	2	0.2	73	8.4		
SLOVAKIA (1990-2009)	89	7.5	80	6.8	-	-	-	-	87	7.3	4	0.4	-	-	-	-	2	0.2	76	6.4	-	-	-	-	-	
SLOVAKIA, paediatric (2000-2012)	25	3.4	57	8.1	5	1.7	20	7.0	21	2.9	20	2.7	5	1.7	9	3.1	4	0.5	37	5.4	0	0.0	11	3.8		
SLOVENIA (1991-2012)	262	5.5	366	8.1	-	-	-	-	253	5.3	0	0.0	-	-	-	-	9	0.2	366	8.1	-	-	-	-	-	
SPAIN, 2 paediatric registries (1991-2013)																										

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of astrocytoma in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.3. Astrocytomas (IIlb): numbers of cases and incidence rates per million by age and coded behaviour

Age group (years)	Astrocytoma (IIb)						Pilocytic astrocytoma (M-9421)						Other astrocytomas							
	0-14			15-19			0-14			15-19			0-14			15-19				
	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant		
	N	ASR	Rate	N	Rate	N	Rate	N	ASR	Rate	N	Rate	N	ASR	Rate	N	ASR	Rate		
SPAIN, selected regions, paediatric (2000-2013)	197	5.8	229	6.7	-	-	-	192	5.6	0	0.0	-	-	-	5	0.1	229	6.7	-	
SPAIN, Valencia, paediatric (1991-2010)	65	4.9	157	11.9	-	-	-	61	4.6	0	0.0	-	-	-	4	0.3	157	11.9	-	
SPAIN, 11 registries (1990-2013)	181	5.7	239	7.6	57	4.3	103	7.8	5.5	0	0.0	50	3.8	0	0.0	6	0.2	239	7.6	
SWEDEN (1990-2011)	274	7.8	283	8.1	59	4.8	87	7.1	271	7.7	0	0.0	59	4.8	0	0.0	3	0.1	283	8.1
SWITZERLAND, paediatric (1990-2013)	236	8.1	153	5.3	-	-	-	229	7.8	0	0.0	-	-	-	7	0.2	153	5.3	-	
SWITZERLAND, 7 registries (1990-2013)	102	9.4	50	4.6	23	6.3	23	6.3	99	9.2	4	0.4	19	5.2	3	0.2	46	4.3	4	
UKRAINE (2002-2012)	0	0.0	596	7.8	0	0.0	281	7.7	0	0.0	0	0.0	0	0.0	0	0.0	596	7.8	0	
UK (2000-2011)	1060	8.0	920	7.1	174	3.7	262	5.6	1053	8.0	25	0.2	173	3.7	6	0.1	7	0.1	895	6.9
UK, England and Wales, paediatric (1991-2010)	1445	7.4	1567	8.1	-	-	-	1371	7.0	0	0.0	-	-	-	74	0.4	1567	8.1	-	
OCEANIA	109	1.2	614	7.1	19	0.6	221	7.4	103	1.2	1	0.0	17	0.6	0	0.0	613	7.1	2	
AUSTRALIA (1992-2014)	3	1.2	11	4.6	0	0.0	3	4.7	3	1.2	0	0.0	0	0.0	0	0.0	11	4.6	0	
AUSTRALIA, 3 registries, Indigenous (1992-2014)	9	2.9	11	3.6	1	1.0	3	3.0	8	2.5	0	0.0	1	1.0	0	0.4	11	3.6	0	
FRANCE, 2 registries (1990-2013)	0	0.0	154	8.9	0	0.0	40	6.8	0	0.0	62	3.6	0	0.0	7	1.2	0	0.0	92	
NEW ZEALAND (1993-2012)	0	0.0	32	7.4	0	0.0	7	5.8	0	0.0	14	3.3	0	0.0	1	0.8	0	0.0	18	
NEW ZEALAND, Maori (1993-2012)	0	0.0	11	7.1	0	0.0	5	11.3	0	0.0	5	3.3	0	0.0	0	0.0	6	3.9	0	
NEW ZEALAND, Pacific peoples (1993-2012)	0	0.0	111	9.7	0	0.0	28	6.7	0	0.0	43	3.8	0	0.0	6	1.4	0	0.0	68	
NEW ZEALAND, Other (1993-2012)	105	9.1	56	4.9	-	-	-	93	8.1	0	0.0	-	-	-	12	1.0	56	4.9	-	
NEW ZEALAND, paediatric (2000-2012)	19	6.6	8	2.8	-	-	-	16	5.6	0	0.0	-	-	-	3	1.0	8	2.8	-	
NEW ZEALAND, paediatric, Maori (2000-2012)	86	9.9	48	5.6	-	-	-	77	8.9	0	0.0	-	-	-	9	1.0	48	5.6	-	
NEW ZEALAND, paediatric, Non-Maori (2000-2012)																				

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of astrocytoma in a dataset
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Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

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Table 10.4. Effect of pilocytic astrocytoma (M-9421) on CNS tumours incidence (III): numbers of cases and incidence rates per million by age and behaviour

	CNS tumours (III)			CNS tumours (III) excluding pilocytic astrocytoma			Pilocytic astrocytoma (M-9421)			CNS tumours (III) malignant and pilocytic astrocytoma (M-9421) any behaviour		
	Behaviour			Malignant			Any			Any		
	Age group (years)	0-14	15-19	0-14	15-19	Rate	0-14	15-19	Rate	0-14	15-19	Rate
		N	ASR	N	ASR	N	N	ASR	N	N	ASR	N
AFRICA												
ALGERIA, 5 registries (1995-2014)		224	12.9	89	13.1	12.2	1	0.1	1	0.1	12.3	84
BOTSWANA (1999-2007)		32	5.3	6	3.4	3.4	0	0.0	0	0.0	5.3	6
CAMEROON, Yaoundé (2004-2006)		4	1.7	1	1.6	1.6	0	0.0	0	0.0	1.7	1
EGYPT, Gharbiyah (1999-2010)		276	18.3	76	13.9	13.1	9	0.6	0	0.0	26.7	72
FRANCE, Réunion (1990-2011)		65	15.1	15	10.4	10.4	0	0.0	0	0.0	15.1	15
KENYA, 2 registries (2000-2012)		71	6.6	18	6.1	6.1	0	0.0	0	0.0	6.5	18
LIBYA, Benghazi (2003-2008)		47	15.9	9	9.0	9.0	4	1.4	0	0.0	46	9
MAI, Bamako (2005-2014)		22	3.0	5	2.0	2.0	0	0.0	0	0.0	2.9	5
MAURITIUS (2001-2013)		42	11.4	19	14.4	14.4	0	0.0	0	0.0	11.4	19
MOROCCO, 2 registries (2005-2012)		173	19.3	34	10.5	8.0	17	1.9	5	1.5	18.4	31
SOUTH AFRICA, paediatric (1998-2012)		1300	6.0	-	-	-	0	0.0	-	1214	3.7	-
SOUTH AFRICA, paediatric, Asian (1998-2012)		34	8.7	-	-	-	0	0.0	-	31	8.0	-
SOUTH AFRICA, paediatric, Black (1998-2012)		850	4.7	-	-	-	0	0.0	-	787	4.3	-
SOUTH AFRICA, paediatric, Coloured (1998-2012)		245	13.2	-	-	-	0	0.0	-	233	12.6	-
SOUTH AFRICA, paediatric, White (1998-2012)		171	15.4	-	-	-	0	0.0	-	163	14.8	-
TUNISIA, 2 registries (1993-2007)		274	14.5	84	12.1	10.9	25	1.3	8	1.1	27.3	84
UGANDA, Kyedondo (1996-2013)		46	3.4	10	2.2	2.2	0	0.0	0	0.0	3.4	10
ZIMBABWE, Harare, African (1995-2013)		109	12.9	24	8.1	8.1	7	0.8	0	0.0	10.7	24
AMERICA, LATIN AND THE CARIBBEAN												
ARGENTINA, paediatric (2000-2013)		3396	23.8	-	-	-	315	2.2	-	3184	22.4	-
ARGENTINA, 6 registries (1991-2013)		520	24.0	110	14.8	12.8	63	1.1	4	0.5	22.4	99
BRAZIL, 5 registries (1995-2012)		451	24.8	126	17.2	16.1	24	1.0	7	1.0	24.7	125
CHILE, paediatric (2007-2011)		373	20.4	-	-	-	22	1.2	-	330	18.0	-
CHILE, 4 registries (1998-2012)		105	24.3	22	12.9	10.6	7	1.6	0	0.0	21.6	18
COLOMBIA, 4 registries (1992-2013)		434	25.2	103	16.6	12.9	39	2.2	2	0.3	39.4	82
COSTA RICA (1993-2012)		430	18.4	93	11.7	10.9	12	0.5	6	0.8	43.0	93
CUBA (2000-2012)		565	21.1	114	11.0	10.8	112	1.0	1	0.1	55.9	20.9
ECUADOR, 3 registries (1993-2013)		385	17.9	93	12.6	11.8	14	0.6	3	0.4	38.4	17.9
FRANCE, 3 registries (1990-2012)		66	21.7	18	17.0	16.6	9	3.0	1	0.9	54	17.8
HONDURAS, Francisco Morazan (2002-2012)		80	15.3	19	12.7	10.1	7	1.3	1	0.7	13.4	16
JAMAICA, Kingston and St Andrew (1982-2012)		61	10.5	19	9.4	8.9	3	0.5	1	0.5	10.3	19
MEXICO, Mexico City, paediatric (1997-2013)		221	18.9	-	-	-	17	1.5	-	206	17.6	-
PERU, Lima (2010-2012)		212	30.2	72	27.3	13.6	11	1.6	1	0.4	14.5	37
PERU, Trujillo (1990-2002)		39	16.2	12	13.7	13.7	0	0.0	0	0.0	16.2	12
USA, Puerto Rico (1992-2012)		466	26.5	133	20.9	13.4	121	6.9	20	3.1	41.8	105
URUGUAY (1993-2012)		382	25.6	61	11.8	11.6	32	2.2	1	0.2	25.6	61
AMERICA, NORTH												
CANADA, 9 registries (1992-2013)		3688	32.5	1042	24.8	15.8	632	5.5	133	3.2	33.21	797
USA (2004-2012)		23902	44.2	8776	44.8	15.6	4990	9.2	1145	5.8	34.3	4206
USA, API (2004-2012)		786	27.1	266	26.7	9.5	131	4.6	29	2.9	21.6	125
USA, Black (2004-2012)		3139	35.1	1152	35.1	12.1	620	7.0	138	4.2	23.68	535
USA, Hispanic White (2004-2012)		4012	36.8	1296	38.2	12.4	726	6.7	117	3.3	30.14	531
USA, Native American (2004-2012)		189	19.9	99	29.5	10.4	40	4.2	6	1.8	14.3	41
USA, White NH (2004-2012)		15047	49.6	5667	49.0	17.7	3303	10.8	828	7.2	11.622	38.8
USA, NPCR (2004-2012)		23078	44.6	8624	46.0	15.8	4766	9.1	1087	5.8	34.2	4054
USA, SEER 18 (2004-2012)		5112	33.3	1156	20.8	15.3	1397	9.0	306	5.5	51.2	1156
USA, Hawaii, Hawaiian (2004-2012)		21	28.3	5	20.9	16.7	7	9.2	1	4.2	28.3	5
ASIA												
BAHRAIN (1998-2012)		59	18.8	12	13.1	9.8	3	0.9	1	1.1	15.3	10
CHINA, 6 registries (1990-2013)		1202	21.6	505	17.8	14.7	111	2.0	35	1.2	11.01	19.9
CHINA, Hong Kong (1990-2013)		545	22.5	159	15.3	13.0	90	3.6	24	2.3	22.5	159
INDIA, 7 registries (1990-2013)		2217	12.8	621	9.8	9.8	3	0.0	1	0.0	22.17	621
ISLAMIC REPUBLIC OF IRAN, Golestan (2004-2011)		45	12.0	40	23.7	23.7	0	0.0	0	0.0	12.0	40

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of pilocytic astrocytoma in a dataset
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Pilocytic Astrocytoma is shown by behaviour in Table 10.3. Astrocytomas (IIb)
Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.4. Effect of pilocytic astrocytoma (M-9421) on CNS tumours incidence (III): numbers of cases and incidence rates per million by age and behaviour

Behaviour	CNS tumours (III)			CNS tumours (III) excluding pilocytic astrocytoma			Pilocytic astrocytoma (M-9421)			CNS tumours (III) malignant and pilocytic astrocytoma (M-9421) any behaviour		
	Age group (years)	Any		Malignant		Rate	Any		Rate	0-14		Rate
		0-14	15-19	0-14	15-19		0-14	15-19		N	ASR	
		N	N	N	N		N	N		N	ASR	N
ISRAEL (1990-2012)		1281	312	865	183	15.0	239	45	3.7	1104	26.8	228
ISRAEL, Jews (1990-2012)		991	227	677	134	14.5	186	31	3.7	863	26.7	168
ISRAEL, Non-Jews (1990-2012)		290	85	188	49	16.6	53	14	3.7	241	21.5	60
JAPAN, 8 registries (1990-2013)		1574	438	1130	235	10.4	104	19	0.8	1234	20.8	254
JORDAN, Jordanians (2000-2012)		477	81	474	81	10.1	0	0	0.0	474	17.5	81
REPUBLIC OF KOREA (1999-2012)		2260	648	2249	648	13.4	11	0	0.0	2260	18.3	648
KUWAIT (1994-2012)		133	52	104	35	10.8	19	12	3.7	123	10.1	47
KUWAIT, Kuwaitis (1994-2012)		87	35	64	26	13.8	17	8	4.3	81	11.4	34
KUWAIT, Non-Kuwaitis (1994-2012)		46	17	12.5	9	6.6	2	4	2.9	42	8.4	13
LEBANON (2008-2010)		74	17	74	17	13.7	0	0	0.0	74	21.0	17
PAKISTAN, Karachi (1995-2002)		77	31	75	31	21.5	2	0	0.0	77	13.0	31
PAKISTAN, Lahore (2008-2012)		172	69	126	43	8.0	20	8	1.5	146	7.7	51
PHILIPPINES, 2 registries (1993-2012)		896	174	891	174	7.3	4	0	0.0	895	11.8	174
QATAR (2002-2014)		41	9	34	8	10.0	7	0	0.0	41	13.9	8
SAUDI ARABIA, Riyadh (1994-2012)		523	90	522	90	10.4	1	0	0.0	523	15.6	90
SAUDI ARABIA, Riyadh, Saudis (1994-2012)		430	70	430	70	9.4	0	0	0.0	430	15.5	70
SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)		93	20	92	20	16.4	1	0	0.0	93	16.2	20
THAILAND, 6 registries (1993-2013)		606	148	570	143	8.9	31	3	0.2	601	15.2	146
TURKEY, paediatric (2009-2011)		753	-	583	-	-	107	-	-	690	12.5	-
TURKEY, 8 registries (1992-2012)		1168	461	801	238	16.7	166	32	2.2	967	24.9	270
VIET NAM, Ho Chi Minh City (1995-2013)		288	77	268	73	6.5	8	0	0.0	276	11.4	73
EUROPE												
AUSTRIA (1990-2012)		1079	277	804	201	18.0	167	31	2.8	971	32.4	232
BELARUS, paediatric (1990-2014)		1437	307	1021	237	13.5	238	54	1.2	1259	29.1	265
BELGIUM (2004-2013)		844	249	420	23.3	15.2	226	47	7.4	646	35.9	144
BULGARIA (1990-2013)		564	196	524	17.5	14.4	40	14	1.1	564	18.8	196
CROATIA (2001-2014)		415	158	291	32.7	23.3	48	11	3.1	339	38.0	94
CYPRUS, South-West (1998-2012)		52	12	52	25.2	13.5	0	0	0.0	52	25.2	12
CZECH REPUBLIC (1990-2012)		1323	351	984	25.4	16.3	232	52	3.1	1216	31.4	324
ESTONIA (1990-2012)		227	75	153	27.3	19.8	35	5	2.2	188	33.2	49
FRANCE, paediatric (2000-2012)		5426	-	3011	21.1	-	1205	-	-	4216	29.4	-
FRANCE, 13 registries (1991-2012)		1071	245	667	21.8	10.8	211	40	3.6	878	28.5	159
GERMANY, paediatric (1996-2012)		7199	-	4207	21.4	-	1776	-	-	5983	30.3	-
GERMANY, 6 Eastern states (2001-2007)		295	111	295	22.5	14.7	0	0	0.0	295	22.5	111
GERMANY, 5 Western registries (1994-2012)		1553	421	1101	23.1	14.3	278	58	3.1	1379	28.8	325
GREECE, paediatric, CNS tumours (2010-2014)		251	-	174	22.3	-	39	-	-	213	27.3	-
HUNGARY, paediatric (1991-2014)		1460	-	993	25.2	-	296	-	-	1291	32.9	-
ICELAND (1990-2014)		70	18	43	26.0	9	18	6	11.0	61	37.3	15
IRELAND (1994-2012)		643	232	391	40.5	21.7	158	40	6.7	563	34.3	169
ITALY, 2 paediatric registries (1998-2011)		409	100	195	23.7	19.1	108	14	4.9	303	36.7	69
ITALY, Piedmont, paediatric (1990-2011)		543	-	277	23.9	-	138	-	-	415	35.8	-
ITALY, 26 registries (1992-2013)		1554	488	1010	25.0	17.0	255	44	2.9	1285	31.3	300
LITHUANIA (2000-2012)		157	68	138	20.3	20.8	8	1	0.3	146	21.4	67
MALTA (1994-2013)		45	8	34	23.5	8.9	8	2	3.6	42	29.5	7
THE NETHERLANDS (1993-2013)		2063	618	1236	20.6	13.2	470	96	4.7	1706	28.3	364
NORWAY (1990-2013)		1016	358	505	24.4	20.1	185	50	7.1	690	33.2	191
POLAND (2001-2013)		1984	757	1831	23.3	19.6	153	54	1.5	1984	25.2	757
PORTUGAL (1991-2012)		978	257	654	24.8	14.4	209	55	5.4	863	32.7	203
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)		270	-	170	20.5	-	54	-	-	224	26.7	-
RUSSIAN FEDERATION, 2 registries (1998-2015)		294	58	285	26.0	11.4	6	0	0.0	291	26.5	58
SLOVAKIA (1990-2009)		682	234	454	22.0	17.6	134	37	4.2	588	28.2	191
SLOVAKIA, paediatric (2000-2012)		353	-	236	20.8	-	91	-	-	327	28.5	-
SLOVENIA (1991-2012)		193	56	130	19.6	12.2	41	14	4.9	171	25.2	49
SPAIN, 2 paediatric registries (1991-2013)		1710	-	1177	24.9	-	253	-	-	1430	30.3	-

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results

Italic when fewer than 20 cases of pilocytic astrocytoma in a dataset

Dataset presented only if eligible (see Chapter 5)

Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets

Pilocytic Astrocytoma is shown by behaviour in Table 10.3. Astrocytomas (IIb)

Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.4. Effect of pilocytic astrocytoma (M-9421) on CNS tumours incidence (III): numbers of cases and incidence rates per million by age and behaviour

Behaviour	CNS tumours (III)			CNS tumours (III) excluding pilocytic astrocytoma			Pilocytic astrocytoma (M-9421)			CNS tumours (III) malignant and pilocytic astrocytoma (M-9421) any behaviour		
	Any			Malignant			Any					
	Age group (years)											
	0-14	15-19	Rate	0-14	15-19	Rate	0-14	15-19	Rate	0-14	15-19	Rate
SPAIN, selected regions, paediatric (2000-2013)	1175	-	-	796	-	-	192	-	-	988	-	-
SPAIN, Valencia, paediatric (1991-2010)	535	-	-	381	-	-	61	-	-	442	-	-
SPAIN, 11 registries (1990-2013)	1061	371	28.3	745	227	17.3	175	50	3.8	920	277	21.1
SWEDEN (1990-2011)	1368	361	29.5	858	218	17.8	271	59	4.8	1129	277	22.7
SWITZERLAND, paediatric (1990-2013)	984	-	-	560	-	-	229	-	-	809	-	-
SWITZERLAND, 7 registries (1990-2013)	396	106	29.1	213	50	13.7	103	22	6.0	316	72	19.8
UKRAINE (2002-2012)	1749	637	17.2	1749	637	17.2	0	0	0.0	1749	637	17.2
UK (2000-2011)	3988	920	19.8	2717	621	13.3	1078	179	3.8	3795	800	17.2
UK, England and Wales, paediatric (1991-2010)	7049	-	-	4282	-	-	1371	-	-	5653	-	-
OCEANIA												
AUSTRALIA (1992-2014)	2171	510	17.1	1982	459	15.4	104	17	0.6	2086	476	15.9
AUSTRALIA, 3 registries, Indigenous (1992-2014)	45	7	11.0	38	6	9.4	3	0	0.0	41	6	9.4
FRANCE, 2 registries (1990-2013)	72	8	8.1	56	7	7.1	8	1	1.0	64	8	8.1
NEW ZEALAND (1993-2012)	441	96	25.5	379	89	15.2	62	7	1.2	441	96	16.4
NEW ZEALAND, Maori (1993-2012)	96	13	10.7	82	12	9.9	14	1	0.8	96	13	10.7
NEW ZEALAND, Pacific peoples (1993-2012)	49	9	20.3	44	9	20.3	5	0	0.0	49	9	20.3
NEW ZEALAND, Other (1993-2012)	296	74	17.7	253	68	16.2	43	6	1.4	296	74	17.7
NEW ZEALAND, paediatric (2000-2012)	377	-	-	224	-	-	93	-	-	317	-	-
NEW ZEALAND, paediatric, Maori (2000-2012)	74	-	-	48	-	-	16	-	-	64	-	-
NEW ZEALAND, paediatric, Non-Maori (2000-2012)	303	-	-	176	-	-	77	-	-	253	-	-

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results

Italic when fewer than 20 cases of pilocytic astrocytoma in a dataset

Dataset presented only if eligible (see Chapter 5)

Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets

Pilocytic Astrocytoma is shown by behaviour in Table 10.3. Astrocytomas (IIIs)

Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.5. Other gliomas (IIId): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Other gliomas (IIId)										Mixed and unspecified glioma (IIId2)									
	0-14					15-19					0-14					5-9				
	Non-malignant		Malignant			Non-malignant		Malignant			0-14		Any			0-4		Any		
	N	ASR	N	ASR	N	N	Rate	N	Rate	N	N	ASR	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
AFRICA	0	0.0	25	1.4	1	8	1.2	1	0.0	3	0.4	23	1.3	1.2	1.1	1.6	1.1	1.6	1.1	0.0
ALGERIA, 5 registries (1998-2014)	0	0.0	4	0.7	0	1	0.6	1	0.2	0	0.0	3	0.5	0.0	0.5	1.1	1	0.6	0	0.0
BOTSWANA (1999-2007)	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
CAMEROON, Yaoundé (2004-2006)	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
EGYPT, Gharbani (1999-2010)	0	0.0	22	1.4	0	2	0.4	2	0.1	1	0.2	19	1.2	0.8	2.0	0.9	1	0.2	1	0.0
FRANCE, Réunion (1990-2011)	0	0.0	20	4.5	0	4	2.8	4	1.2	2	1.4	14	3.2	3.4	2.0	1	1.4	2	1.4	0.0
KENYA, 2 registries (2000-2012)	0	0.0	10	0.9	0	0	0.0	0	0.0	0	0.0	10	0.9	0.7	0.6	1.7	0	0.0	0	0.0
LIBYA, Benghazi (2003-2008)	0	0.0	3	0.9	0	0	0.0	0	0.0	0	0.0	3	0.9	0.0	1.0	2.0	0	0.0	0	0.0
MALI, Bamako (2005-2014)	0	0.0	2	0.3	0	0	0.0	2	0.8	0	0.0	1	0.1	0.0	0.4	0.0	1	0.4	1	0.0
MAURITIUS (2001-2013)	0	0.0	5	1.3	0	2	1.5	4	1.1	1	0.8	1	0.2	0.0	0.0	0.7	1	0.8	0	0.0
MOROCCO, 2 registries (2005-2012)	0	0.0	12	1.4	0	0	0.0	3	0.9	1	0.3	11	1.2	1.3	1.4	1.0	2	0.6	0	0.0
SOUTH AFRICA, paediatric (1998-2012)	0	0.0	260	1.2	-	-	-	9	0.0	-	-	249	1.2	1.1	1.7	0.6	-	2	0.0	-
SOUTH AFRICA, paediatric, Asian (1998-2012)	0	0.0	5	1.3	-	-	-	-	-	-	-	5	1.3	0.8	2.3	0.7	-	0	0.0	-
SOUTH AFRICA, paediatric, Black (1998-2012)	0	0.0	187	1.0	-	-	-	8	0.0	-	-	177	1.0	0.9	1.5	0.5	-	2	0.0	-
SOUTH AFRICA, paediatric, Coloured (1998-2012)	0	0.0	43	2.3	-	-	-	1	0.0	-	-	42	2.3	2.2	3.5	0.9	-	0	0.0	-
SOUTH AFRICA, paediatric, White (1998-2012)	0	0.0	25	2.3	-	-	-	25	2.3	-	-	25	2.3	3.7	1.5	1.1	-	0	0.0	-
TUNISIA, 2 registries (1993-2007)	0	0.0	21	1.1	0	0	0.0	14	2.0	5	0.3	12	1.7	0.8	0.3	1.6	0.6	1	0.1	0.1
UGANDA, Kigadondo (1996-2013)	0	0.0	2	0.2	0	0	0.0	0	0.0	0	0.0	2	0.2	0.0	0.5	0.0	0	0.0	0	0.0
ZIMBABWE, Harare, African (1995-2013)	0	0.0	7	0.8	0	0	0.0	2	0.7	2	0.2	0	0.0	0.8	0.0	0.8	0	0.7	0	0.0
AMERICA, LATIN AND THE CARIBBEAN	0	0.0	181	1.2	-	-	-	58	0.4	-	-	117	0.8	0.9	0.8	0.7	-	6	0.0	-
ARGENTINA, paediatric (2000-2013)	0	0.0	37	1.6	0	0	0.0	10	1.3	11	0.4	6	0.8	1.1	1.0	1.5	0.7	4	0.5	0.0
ARGENTINA, 6 registries (1991-2013)	0	0.0	42	2.2	0	0	0.0	17	2.3	2	0.1	7	1.0	4.0	2.2	1.7	3.0	1.8	1.4	0.0
BRAZIL, 5 registries (1995-2012)	0	0.0	38	2.0	-	-	-	5	0.3	-	-	32	1.7	1.5	2.1	1.5	-	1	0.0	-
CHILE, paediatric (2007-2011)	0	0.0	7	1.5	0	0	0.0	0	0.0	1	0.2	0	0.0	0.7	0.7	1.8	0	0.0	1	0.0
CHILE, 4 registries (1998-2012)	0	0.0	38	2.2	0	0	0.0	9	1.5	11	0.6	3	0.5	2.7	1.6	2.1	0.8	5	0.8	0.0
COLOMBIA, 4 registries (1992-2013)	0	0.0	23	1.0	0	0	0.0	13	1.6	9	0.4	8	1.0	12	0.5	0.5	0.6	4	0.6	0.0
COSTA RICA, (1993-2012)	0	0.0	62	2.3	0	0	0.0	12	1.2	9	0.3	3	0.3	45	1.7	1.5	1.9	15	9	0.0
CUBA (2000-2012)	0	0.0	23	1.1	0	0	0.0	6	0.8	5	0.3	4	0.5	16	0.7	0.6	0.8	2	0.3	0.0
ECUADOR, 5 registries (1993-2013)	0	0.0	4	1.2	0	0	0.0	1	0.9	0	0.0	1	0.9	4	1.2	1.0	0.0	2.8	0	0.0
FRANCE, 3 registries (1990-2012)	0	0.0	10	1.9	0	0	0.0	5	3.4	1	0.2	4	2.7	9	1.7	0.0	2.9	2.5	1	0.7
HONDURAS, Francisco Morazan (2002-2012)	0	0.0	15	2.6	0	0	0.0	1	0.5	3	0.5	12	2.0	1.6	3.1	1.5	0	0.0	0	0.0
JAMAICA, Kingston and St Andrew (1992-2012)	0	0.0	9	0.7	-	-	-	2	0.2	-	-	6	0.5	0.3	1.2	0.0	-	1	0.1	-
MEXICO, Mexico City, paediatric (1997-2013)	0	0.0	20	2.8	0	0	0.0	5	1.9	3	0.4	3	1.1	17	2.4	1.7	3.4	2.1	2	0.8
PERU, Lima (2010-2012)	0	0.0	1	0.4	0	0	0.0	1	1.1	0	0.0	1	0.4	0.0	1.3	0.0	0	0.0	1	1.1
PERU, Trujillo (1990-2002)	0	0.0	24	1.2	0	0	0.0	8	1.3	7	0.3	4	0.6	15	0.8	0.4	1.5	0.6	4	0.6
USA, Puerto Rico (1992-2012)	0	0.0	76	5.0	0	0	0.0	17	3.3	11	0.7	7	1.3	64	4.2	4.7	4.4	3.5	10	1.9
URUGUAY (1993-2012)	0	0.0	559	4.8	5	0.1	178	4.2	47	0.4	54	1.3	501	4.3	4.1	5.4	3.5	119	2.8	0.1
AMERICA, NORTH	6	0.1	3041	5.6	21	0.1	798	4.1	265	0.5	229	1.2	2795	5.1	4.9	6.4	4.0	568	2.9	60
CANADA, 9 registries (1992-2013)	79	0.1	112	3.8	2	0.2	21	2.1	5	0.2	5	0.5	107	3.6	3.3	4.7	2.8	1.5	2	0.1
USA (2004-2012)	2	0.1	452	5.0	2	0.1	96	2.9	40	0.4	29	0.9	410	4.6	3.9	6.6	3.2	68	2.1	12
USA, Black (2004-2012)	18	0.2	501	4.6	5	0.1	74	2.2	37	0.3	24	0.7	477	4.4	4.5	5.3	3.2	52	1.5	5
USA, Hispanic White (2004-2012)	1	0.1	19	2.0	0	0.0	8	2.4	2	0.2	4	1.2	17	1.8	1.6	2.0	1.9	3	0.9	1
USA, Native American (2004-2012)	46	0.1	1867	6.1	12	0.1	578	5.0	169	0.5	162	1.4	1705	5.6	5.4	6.7	4.5	414	3.6	39
USA, White NH (2004-2012)	79	0.1	2893	5.5	21	0.1	764	4.1	248	0.5	216	1.2	2666	5.1	4.9	6.4	4.0	548	2.9	58
USA, NPCR (2004-2012)	0	0.0	861	5.5	0	0.0	212	3.8	82	0.5	72	1.3	763	4.9	4.3	6.6	3.7	136	2.5	16
USA, SEER 18 (2004-2012)	0	0.0	2	2.9	0	0.0	1	4.2	0	0.0	1	4.2	2	2.9	7.4	0.0	0.0	0	0.0	0
USA, Hawaii, Hawaiian (2004-2012)	0	0.0	9	2.9	0	0.0	2	2.2	0	0.0	1	1.1	9	2.9	2.8	3.8	2.0	1	1.1	0
ASIA	0	0.0	114	2.0	0	0.0	69	2.4	20	0.3	17	0.6	88	1.6	1.3	1.9	1.4	48	1.7	6
BAHRAIN (1998-2012)	0	0.0	63	2.6	0	0.0	24	2.3	13	0.5	10	1.0	49	2.0	2.0	2.6	1.3	14	1.3	1
CHINA, 6 registries (1990-2013)	0	0.0	448	2.5	0	0.0	133	2.1	46	0.2	32	0.5	388	2.3	1.7	3.1	2.1	98	1.5	4
CHINA, Hong Kong (1990-2013)	0	0.0	3	0.9	0	0.0	2	1.2	0	0.0	2	1.2	3	0.9	0.0	2.8	0.0	0	0.0	0
INDIA, 7 registries (1990-2013)	0	0.0	3	0.9	0	0.0	2	1.2	0	0.0	2	1.2	3	0.9	0.0	2.8	0.0	0	0.0	0
ISLAMIC REPUBLIC OF IRAN, Golestan (2004-2011)	0	0.0	3	0.9	0	0.0	2	1.2	0	0.0	2	1.2	3	0.9	0.0	2.8	0.0	0	0.0	0

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of other glioma in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

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Table 10.5. Other gliomas (IIId): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Other gliomas (IIId)						Oligodendroglioma (IIId1)						Mixed and unspecified glioma (IIId2)						Uncertain origin (IIId3)					
	0-14			15-19			0-14			15-19			0-14			15-19			0-14			15-19		
	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant
Behaviour	N	ASR	N	ASR	N	Rate	N	Rate	N	ASR	N	Rate	N	ASR	N	Rate	N	ASR	N	Rate	N	ASR	N	Rate
ISRAEL (1990-2012)	0	0.0	177	4.3	0	0.0	34	2.8	20	0.5	11	0.9	23	1.9	7	0.2	0	0.0	0	0.0	0	0.0	0	0.0
ISRAEL, Jews (1990-2012)	0	0.0	139	4.6	0	0.0	24	2.6	18	0.6	7	0.8	17	1.8	5	0.2	0	0.0	0	0.0	0	0.0	0	0.0
ISRAEL, Non-Jews (1990-2012)	0	0.0	38	3.4	0	0.0	10	3.4	2	0.2	4	1.4	34	3.4	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0
JAPAN, 8 registries (1990-2013)	1	0.0	209	3.5	0	0.0	33	1.4	9	0.1	7	0.3	21	0.9	14	0.2	5	0.2	0	0.0	0	0.0	0	0.0
JORDAN, Jordanians (2000-2012)	0	0.0	58	2.1	0	0.0	9	1.1	5	0.2	3	0.4	6	0.8	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0
REPUBLIC OF KOREA (1999-2012)	0	0.0	297	2.3	0	0.0	111	2.3	48	0.4	39	0.8	67	1.4	17	0.1	5	0.1	0	0.0	0	0.0	0	0.0
KUWAIT (1994-2012)	0	0.0	6	0.5	0	0.0	1	0.3	2	0.2	1	0.3	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
KUWAIT, Kuwaitis (1994-2012)	0	0.0	5	0.7	0	0.0	1	0.5	2	0.3	1	0.5	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
KUWAIT, Non-Kuwaitis (1994-2012)	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LEBANON (2008-2010)	0	0.0	12	3.3	0	0.0	4	3.2	3	0.7	3	2.4	8	3.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0
PAKISTAN, Karachi (1995-2002)	0	0.0	10	1.7	0	0.0	5	3.5	0	0.0	1	0.7	10	2.0	2	0.3	4	2.8	0	0.0	0	0.0	0	0.0
PAKISTAN, Lahore (2008-2012)	0	0.0	30	1.5	0	0.0	6	1.1	9	0.4	2	0.4	20	1.6	4	0.7	1	0.0	0	0.0	0	0.0	0	0.0
PHILIPPINES, 2 registries (1993-2012)	0	0.0	170	2.2	0	0.0	24	1.0	7	0.1	4	0.2	162	0.8	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
QATAR (2002-2014)	0	0.0	4	1.3	0	0.0	0	0.0	0	0.0	0	0.0	4	1.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SAUDI ARABIA, Riyadh (1994-2012)	0	0.0	79	2.3	0	0.0	12	1.4	8	0.2	5	0.6	68	2.0	7	0.8	3	0.1	0	0.0	0	0.0	0	0.0
SAUDI ARABIA, Riyadh, Saudis (1994-2012)	0	0.0	61	2.2	0	0.0	7	0.9	6	0.2	2	0.3	53	1.5	5	0.7	2	0.1	0	0.0	0	0.0	0	0.0
SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	0	0.0	18	3.2	0	0.0	5	4.1	2	0.4	3	2.5	15	2.6	4	1.6	1	0.2	0	0.0	0	0.0	0	0.0
THAILAND, 6 registries (1993-2013)	0	0.0	44	1.1	0	0.0	10	0.6	7	0.2	2	0.1	37	0.8	8	0.5	0	0.0	0	0.0	0	0.0	0	0.0
TURKEY, paediatric (2009-2011)	0	0.0	100	1.8	-	-	-	-	7	0.1	-	-	-	-	2	0.0	-	0.0	-	-	-	-	0	0.0
TURKEY, 8 registries (1992-2012)	1	0.0	180	4.6	0	0.0	53	3.7	31	0.8	12	0.8	145	2.6	40	2.8	5	0.1	1	0.1	0	0.0	0	0.0
VIET NAM, Ho Chi Minh City (1995-2013)	0	0.0	3	0.1	0	0.0	2	0.2	1	0.0	2	0.2	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
EUROPE	0	0.0	106	3.4	0	0.0	35	3.1	13	0.4	11	1.0	85	2.1	8	0.3	1	0.1	0	0.0	0	0.0	0	0.0
AUSTRIA (1990-2012)	0	0.0	112	2.4	0	0.0	24	1.3	46	1.0	13	0.7	64	1.1	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0
BELARUS, paediatric (1990-2014)	1	0.0	95	5.1	1	0.2	15	2.4	23	1.3	9	1.4	67	3.6	6	0.3	3	0.5	0	0.0	0	0.0	0	0.0
BELGIUM (2004-2013)	0	0.0	26	0.8	0	0.0	10	0.8	15	0.5	7	0.6	10	0.3	2	0.2	1	0.1	0	0.0	0	0.0	0	0.0
BULGARIA (1990-2013)	0	0.0	30	3.4	0	0.0	11	3.1	4	0.4	3	0.8	25	3.8	7	2.0	1	0.1	0	0.0	0	0.0	0	0.0
CROATIA (2001-2014)	0	0.0	10	4.6	0	0.0	2	2.3	1	0.4	0	0.0	9	4.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CYPRUS, South-West (1998-2012)	0	0.0	43	1.0	0	0.0	28	1.7	26	0.6	13	0.8	14	0.5	0.2	0.3	11	0.4	0	0.0	0	0.0	0	0.0
CZECH REPUBLIC (1990-2012)	0	0.0	9	1.5	0	0.0	2	0.9	5	0.8	1	0.4	4	0.7	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0
ESTONIA (1990-2012)	16	0.1	747	5.1	-	-	-	-	191	1.3	-	-	543	3.7	29	0.2	-	-	-	-	-	-	-	-
FRANCE, paediatric (2000-2012)	0	0.0	163	5.1	0	0.0	41	3.7	44	1.4	21	1.9	115	3.7	4	0.1	1	0.1	0	0.0	0	0.0	0	0.0
FRANCE, 13 registries (1993-2012)	4	0.0	556	2.7	-	-	-	-	43	0.2	-	-	494	2.4	23	0.1	-	-	-	-	-	-	-	-
GERMANY, paediatric (1996-2012)	0	0.0	39	2.9	0	0.0	14	1.9	3	0.2	6	0.8	36	2.6	8	1.1	0	0.0	0	0.0	0	0.0	0	0.0
GERMANY, 6 Eastern states (2001-2007)	0	0.0	170	3.5	1	0.1	31	1.7	12	0.2	8	0.4	154	3.2	40	2.2	4	0.1	3	0.2	0	0.0	0	0.0
GERMANY, 5 Western registries (1994-2012)	1	0.1	24	2.9	-	-	-	-	4	0.4	-	-	20	2.5	1	0.1	-	-	-	-	-	-	-	-
GREECE, paediatric, CNS tumours (2010-2014)	0	0.0	181	4.5	-	-	-	-	39	0.9	-	-	138	3.5	4	0.1	-	-	-	-	-	-	-	-
HUNGARY, paediatric (1991-2014)	0	0.0	4	2.5	0	0.0	0	0.0	0	0.0	0	0.0	4	2.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ICELAND (1990-2014)	0	0.0	66	3.8	0	0.0	22	3.7	18	1.0	10	1.7	46	2.7	18	2.0	1	0.2	0	0.0	0	0.0	0	0.0
IRELAND (1994-2012)	0	0.0	21	2.5	0	0.0	11	3.8	2	0.2	7	2.4	17	2.0	4	1.4	2	0.2	0	0.0	0	0.0	0	0.0
ITALY, 2 paediatric registries (1998-2011)	0	0.0	21	1.8	-	-	-	-	3	0.2	-	-	18	1.5	0	0.0	-	-	-	-	-	-	-	-
ITALY, Piedmont, paediatric (1990-2011)	0	0.0	130	3.2	0	0.0	40	2.7	21	0.5	15	1.0	101	2.5	8	0.2	1	0.1	0	0.0	0	0.0	0	0.0
ITALY, 26 registries (1992-2013)	0	0.0	12	1.6	0	0.0	6	1.9	4	0.5	4	1.3	7	0.9	2	0.6	1	0.1	0	0.0	0	0.0	0	0.0
LITHUANIA (2000-2012)	0	0.0	3	1.8	0	0.0	1	1.8	0	0.0	0	0.0	3	1.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MALTA (1994-2013)	0	0.0	205	3.3	0	0.0	40	2.0	42	0.7	12	0.6	157	2.5	6	0.1	1	0.0	0	0.0	0	0.0	0	0.0
THE NETHERLANDS (1993-2013)	0	0.0	81	3.8	2	0.3	42	6.0	11	0.5	15	2.1	68	3.2	2	0.1	2	0.3	0	0.0	0	0.0	0	0.0
NORWAY (1990-2013)	0	0.0	123	1.6	0	0.0	73	2.0	29	0.4	32	0.9	86	1.1	4	0.1	4	0.1	0	0.0	0	0.0	0	0.0
POLAND (2001-2013)	0	0.0	112	4.2	0	0.0	40	3.9	36	1.3	25	2.4	73	2.8	3	0.1	0	0.0	0	0.0	0	0.0	0	0.0
PORTUGAL (1991-2012)	0	0.0	21	2.3	-	-	-	-	1	0.1	-	-	20	2.2	0	0.0	-	-	-	-	-	-	-	-
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	0	0.0	37	3.4	0	0.0	7	1.4	15	1.3	5	1.0	22	2.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
RUSSIAN FEDERATION, 2 registries (1998-2015)	0	0.0	50	2.3	0	0.0	25	2.9	26	1.1	18	2.1	22	1.1	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0
SLOVAKIA (1990-2009)	0	0.0	26	2.3	-	-	-	-	11	1.0	-	-	15	1.3	1	0.1	-	-	-	-	-	-	-	-
SLOVAKIA, paediatric (2000-2012)	0	0.0	13	1.7	0	0.0	9	3.1	7	0.9	5	1.7	5	0.7	0	0.0	4	1.4	1	0.1	0	0.0	0	0.0
SLOVENIA (1991-2012)	0	0.0	208	4.3	-	-	-	-	10	0.2	-	-	191	4.0	7	0.1	-	-	-	-	-	-	-	-
SPAIN, 2 paediatric registries (1991-2013)	0	0.0	208	4.3	-	-	-	-	10	0.2	-	-	191	4.0	7	0.1	-	-	-	-	-	-	-	-

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results

Italic when fewer than 20 cases of other glioma in a dataset

Dataset presented only if eligible (see Chapter 5)

Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets

Please consult registry-specific background information and quality indicators

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Table 10.5. Other gliomas (IIId): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Other gliomas (IIId)						Oligodendroglioma (IIId1)						Mixed and unspecified glioma (IIId2)						Uncertain origin (IIId3)					
	0-14			15-19			0-14			15-19			0-14			15-19			0-14			15-19		
	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant
	N	ASR	N	ASR	N	Rate	N	Rate	N	ASR	N	Rate	N	ASR	N	Rate	N	ASR	N	Rate	N	ASR	N	Rate
SPAIN, selected regions, paediatric (2000-2013)	0	0.0	157	4.5	-	-	-	-	7	0.2	-	-	-	145	4.2	3.9	5.4	3.3	-	-	5	0.1	-	-
SPAIN, Valencia, paediatric (1991-2010)	0	0.0	51	3.9	-	-	-	-	3	0.2	-	-	-	46	3.5	3.6	5.0	1.8	-	-	2	0.1	-	-
SPAIN, 11 registries (1990-2013)	0	0.0	111	3.5	0	0.0	32	2.4	15	0.5	10	0.8	90	2.9	3.0	3.4	2.2	20	1.5	6	0.2	2	0.2	
SWEDEN (1990-2011)	2	0.1	78	2.2	1	0.1	43	3.5	22	0.6	18	1.5	56	1.6	1.7	1.5	1.5	26	2.1	2	0.1	0	0.0	
SWITZERLAND, paediatric (1990-2013)	0	0.0	105	3.6	-	-	-	-	12	0.4	-	-	-	91	3.2	2.9	4.9	1.7	-	-	2	0.1	-	-
SWITZERLAND, 7 registries (1990-2013)	0	0.0	24	2.3	0	0.0	6	1.6	2	0.2	2	0.5	20	1.9	1.7	3.1	0.8	4	1.1	2	0.2	0	0.0	
UKRAINE (2002-2012)	0	0.0	94	1.2	0	0.0	43	1.2	23	0.3	22	0.6	67	0.9	0.6	1.2	0.9	20	0.5	4	0.1	1	0.0	
UK (2000-2011)	1	0.0	501	3.8	1	0.0	132	2.8	47	0.3	48	1.0	432	3.3	3.1	4.0	2.8	82	1.8	23	0.2	3	0.1	
UK, England and Wales, paediatric (1991-2010)	4	0.0	722	3.7	-	-	-	-	68	0.3	-	-	-	631	3.2	2.8	4.3	2.6	-	-	27	0.1	-	-
OCEANIA	0	0.0	335	3.8	0	0.0	87	2.9	50	0.5	30	1.0	282	3.2	3.5	3.6	2.5	55	1.8	3	0.0	2	0.1	
AUSTRALIA (1992-2014)	0	0.0	7	2.9	0	0.0	3	4.7	1	0.4	3	4.7	6	2.5	1.2	3.7	2.8	0	0.0	0	0.0	0	0.0	
AUSTRALIA, 3 registries, Indigenous (1992-2014)	0	0.0	7	2.4	0	0.0	2	2.0	1	0.3	1	1.0	6	2.1	3.0	1.9	1.0	1	1.0	0	0.0	0	0.0	
FRANCE, 2 registries (1990-2013)	0	0.0	59	3.4	0	0.0	15	2.6	10	0.6	3	0.5	49	2.8	2.7	2.7	2.9	12	2.1	0	0.0	0	0.0	
NEW ZEALAND (1993-2012)	0	0.0	6	1.4	0	0.0	1	0.8	1	0.2	0	0.0	5	1.2	1.3	0.7	1.5	1	0.8	0	0.0	0	0.0	
NEW ZEALAND, Maori (1993-2012)	0	0.0	7	4.5	0	0.0	0	0.0	0	0.0	0	0.0	7	4.5	3.6	5.8	4.2	0	0.0	0	0.0	0	0.0	
NEW ZEALAND, Pacific peoples (1993-2012)	0	0.0	46	3.9	0	0.0	14	3.3	9	0.8	3	0.7	37	3.2	3.1	3.2	11	2.6	0	0.0	0	0	0.0	
NEW ZEALAND, Other (1993-2012)	1	0.1	49	4.2	-	-	-	-	5	0.4	-	-	44	3.8	4.2	3.4	3.8	-	1	0.1	-	-	-	
NEW ZEALAND, paediatric (2000-2012)	0	0.0	8	2.8	-	-	-	-	1	0.4	-	-	7	2.5	2.9	2.1	2.2	-	0	0.0	-	-	-	
NEW ZEALAND, paediatric, Maori (2000-2012)	1	0.1	41	4.7	-	-	-	-	4	0.4	-	-	37	4.3	4.6	3.8	4.3	-	1	0.1	-	-	-	

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of other glioma in a dataset
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Table 10.6.a. Other specified intracranial and intraspinal neoplasms (Ille, Ille1, Ille2), part 1 of 2: numbers of cases and incidence rates per million by age and behaviour

Behaviour	Age group (years)						Other specified CNS neoplasms (Ille)						Pituitary adenoma & carcinoma (Ille1)						Craniopharyngioma (Ille2)					
	0-14			15-19			0-14			15-19			0-14			15-19			0-14			15-19		
	Non-malignant		Rate	Non-malignant		Rate	Non-malignant		Rate	Non-malignant		Rate	Non-malignant		Rate	Non-malignant		Rate	Non-malignant		Rate	Non-malignant		Rate
	N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR		N	ASR	
AFRICA																								
ALGERIA, 5 registries (1998-2014)	3	0.2	1	0.0	1	0.1	5	0.7	0	0.0	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BOTSWANA (1999-2007)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CAMEROON, Yaoundé (2004-2006)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
EGYPT, Gharian (1999-2010)	6	0.4	8	0.6	4	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
FRANCE, Réunion (1990-2011)	0	0.0	2	0.5	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
KENYA, 2 registries (2000-2012)	0	0.0	1	0.1	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LIBYA, Benghazi (2003-2008)	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MALI, Bamako (2005-2014)	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MAURITIUS (2001-2013)	0	0.0	0	0.0	0	0.0	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MOROCCO, 2 registries (2005-2012)	8	0.8	3	0.3	3	0.9	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.6	0	0.0	2	0.6
SOUTH AFRICA, paediatric (1998-2012)	12	0.1	68	0.3	-	-	-	-	1	0.0	0	0.0	-	-	-	1	0.0	0	0.0	0	0.0	-	-	-
SOUTH AFRICA, paediatric, Asian (1998-2012)	1	0.2	4	0.9	-	-	-	-	1	0.2	0	0.0	-	-	-	0	0.0	0	0.0	0	0.0	-	-	-
SOUTH AFRICA, paediatric, Black (1998-2012)	7	0.0	51	0.3	-	-	-	-	0	0.0	0	0.0	-	-	-	0	0.0	0	0.0	0	0.0	-	-	-
SOUTH AFRICA, paediatric, Coloured (1998-2012)	3	0.2	7	0.4	-	-	-	-	0	0.0	0	0.0	-	-	-	0	0.0	0	0.0	0	0.0	-	-	-
SOUTH AFRICA, paediatric, White (1998-2012)	1	0.1	6	0.5	-	-	-	-	0	0.0	0	0.0	-	-	-	1	0.1	0	0.0	0	0.0	-	-	-
TUNISIA, 2 registries (1993-2007)	1	0.0	5	0.3	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
UGANDA, Kyadondo (1996-2013)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ZIMBABWE, Harare, African (1995-2013)	2	0.2	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0
AMERICA, LATIN AND THE CARIBBEAN																								
ARGENTINA, paediatric (2000-2013)	204	1.4	130	0.9	-	-	-	-	0	0.0	3	0.0	-	-	-	166	1.1	7	0.0	-	-	-	-	-
ARGENTINA, 6 registries (1991-2013)	25	1.1	10	0.4	6	0.8	5	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	22	1.0	0	0.0	4	0.5
BRAZIL, 5 registries (1995-2012)	0	0.0	1	0.1	1	0.1	3	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
CHILE, paediatric (2007-2011)	24	1.2	3	0.2	-	-	-	-	0	0.0	0	0.0	-	-	-	12	0.6	0	0.0	-	-	-	-	-
CHILE, 4 registries (1998-2012)	7	1.4	1	0.3	1	0.6	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
COLOMBIA, 4 registries (1992-2013)	12	0.6	10	0.5	9	1.5	5	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0
COSTA RICA (1993-2012)	0	0.0	3	0.1	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CUBA (2000-2012)	5	0.2	10	0.4	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0
ECUADOR, 5 registries (1993-2013)	1	0.0	6	0.3	2	0.3	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0
FRANCE, 3 registries (1990-2012)	5	1.5	4	1.1	7	6.6	1	0.9	0	0.0	0	0.0	2	1.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
HONDURAS, Francisco Morazan (2002-2012)	2	0.4	5	1.0	3	2.0	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.2	0	0.0	1	0.7
JAMAICA, Kingston and St Andrew (1992-2012)	1	0.2	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MEXICO, Mexico City, paediatric (1997-2013)	12	1.0	5	0.5	-	-	-	-	0	0.0	0	0.0	-	-	-	5	0.4	0	0.0	-	-	-	-	-
PERU, Lima (2010-2012)	37	5.0	3	0.4	23	8.7	4	1.5	18	2.4	0	0.0	14	5.3	0	0.0	9	1.2	0	0.0	5	1.9	0	0.0
PERU, Trujillo (1990-2002)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
USA, Puerto Rico (1992-2012)	26	1.4	9	0.5	21	3.3	4	0.6	3	0.1	0	0.0	6	0.9	0	0.0	15	0.8	2	0.1	8	1.3	1	0.2
URUGUAY (1993-2012)	0	0.0	9	0.5	0	0.0	4	0.8	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0
AMERICA, NORTH																								
CANADA, 9 registries (1992-2013)	234	1.9	50	0.4	195	4.6	16	0.4	24	0.2	1	0.0	59	1.4	2	0.0	89	0.7	1	0.0	40	1.0	1	0.0
USA (2004-2012)	3998	7.0	336	0.6	3867	19.7	112	0.6	864	1.4	2	0.0	2316	11.8	2	0.0	1089	1.9	3	0.0	267	1.4	0	0.0
USA, API (2004-2012)	114	3.8	7	0.3	119	11.9	1	0.1	30	0.9	0	0.0	71	7.1	0	0.0	41	1.4	0	0.0	6	0.6	0	0.0
USA, Black (2004-2012)	563	5.9	89	1.0	535	16.3	30	0.9	115	1.1	0	0.0	337	10.3	0	0.0	185	2.0	0	0.0	37	1.1	0	0.0
USA, Hispanic White (2004-2012)	690	6.1	55	0.5	651	19.2	16	0.5	200	1.7	0	0.0	454	13.4	0	0.0	215	1.9	1	0.0	56	1.7	0	0.0
USA, Native American (2004-2012)	39	3.8	3	0.3	50	14.9	2	0.6	8	0.7	0	0.0	33	9.8	0	0.0	14	1.4	0	0.0	4	1.2	0	0.0
USA, White NH (2004-2012)	2457	7.6	173	0.6	2337	20.2	61	0.5	474	1.4	2	0.0	1293	11.2	2	0.0	598	1.9	2	0.0	153	1.3	0	0.0
USA, NPCR (2004-2012)	3998	7.3	325	0.6	3867	20.6	110	0.6	864	1.5	2	0.0	2316	12.3	2	0.0	1089	2.0	3	0.0	267	1.4	0	0.0
USA, SEER 18 (2004-2012)	0	0.0	87	0.6	0	0.0	33	0.6	0	0.0	1	0.0	0	0.0	1	0.0	0	0.0	1	0.0	0	0.0	0	0.0
USA, Hawaii, Hawaiian (2004-2012)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ASIA																								
BAHRAIN (1998-2012)	5	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	1.3	0	0.0	0	0.0	0	0.0
CHINA, 6 registries (1990-2013)	51	0.8	9	0.2	39	1.4	11	0.4	4	0.1	0	0.0	16	0.6	3	0.1	16	0.3	0	0.0	1	0.0	0	0.0
CHINA, Hong Kong (1990-2013)	0	0.0	5	0.2	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
INDIA, 7 registries (1990-2013)	0	0.0	31	0.2	0	0.0	17	0.3	0	0.0	2	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0
ISLAMIC REPUBLIC OF IRAN, Golestan (2004-2011)	0	0.0	2	0.4	0	0.0	3	1.8	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	1	0.2	0	0.0	0	0.0

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of other specified CNS tumours (Ille) in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pituitary astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

Table 10.6.a. Other specified intracranial and intraspinal neoplasms (Ille, Ille1, Ille2), part 1 of 2: numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Other specified CNS neoplasms (Ille)						Pituitary adenoma & carcinoma (Ille1)						Craniopharyngioma (Ille2)					
	0-14			15-19			0-14			15-19			0-14			15-19		
	Behaviour		N	Malignant		Rate	Malignant		Rate	Malignant		Rate	Non-malignant		ASR	Malignant		Rate
	Non-malignant	ASR		Non-malignant	Rate		Non-malignant	ASR		Non-malignant	Rate		Non-malignant	ASR		Non-malignant	ASR	
ISRAEL (1990-2012)	74	1.8	17	0.4	50	4.1	7	0.6	0	0.0	2	0.0	8	0.2	1	0.0	3	0.2
ISRAEL, Jews (1990-2012)	56	1.9	12	0.4	36	3.9	4	0.4	0	0.0	1	0.0	7	0.2	0	0.0	2	0.2
ISRAEL, Non-Jews (1990-2012)	18	1.6	5	0.5	14	4.8	3	1.0	0	0.0	1	0.1	1	0.1	1	0.1	1	0.3
JAPAN, 8 registries (1990-2013)	201	3.2	17	0.3	142	5.9	11	0.5	26	0.4	0	0.0	105	1.7	0	0.0	23	0.9
JORDAN, Jordanians (2000-2012)	3	0.1	11	0.4	0	0.0	5	0.6	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0
REPUBLIC OF KOREA (1999-2012)	0	0.0	45	0	0	0.0	14	0.3	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0
KUWAIT (1994-2012)	10	0.8	4	0.3	4	1.2	0	0.0	2	0.2	0	0.0	1	0.3	0	0.0	5	0.3
KUWAIT, Kuwaitis (1994-2012)	6	0.8	1	0.1	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	4	0.6	0	0.0
KUWAIT, Non-Kuwaitis (1994-2012)	4	0.8	3	0.6	3	2.2	0	0.0	2	0.4	0	0.0	1	0.2	0	0.0	0	0.0
LEBANON (2008-2010)	0	0.0	3	0.8	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
PAKISTAN, Karachi (1995-2002)	0	0.0	2	0.3	0	0.0	3	2.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
PAKISTAN, Lahore (2008-2012)	19	1.0	0	0.0	11	2.0	1	0.2	0	0.0	0	0.0	2	0.4	0	0.0	14	0.7
PHILIPPINES, 2 registries (1993-2012)	1	0.0	5	0.1	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
QATAR (2002-2014)	0	0.0	0	0.0	1	1.3	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SAUDI ARABIA, Riyadh (1994-2012)	0	0.0	16	0.5	0	0.0	6	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SAUDI ARABIA, Riyadh, Saudis (1994-2012)	0	0.0	13	0.5	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	0	0.0	3	0.5	0	0.0	3	2.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
THAILAND, 6 registries (1993-2013)	4	0.1	13	0.3	2	0.1	6	0.4	0	0.0	1	0.0	0	0.0	4	0.1	0	0.0
TURKEY, paediatric (2009-2011)	39	0.7	11	0.2	-	-	-	-	3	0.1	0	0.0	-	-	16	0.3	0	0.0
TURKEY, 8 registries (1992-2012)	134	3.2	14	0.4	159	11.1	11	0.8	36	0.8	0	0.0	119	8.3	2	0.1	42	1.0
VIET NAM, Ho Chi Minh City (1995-2013)	12	0.5	3	0.1	4	0.4	4	0.4	0	0.0	0	0.0	0	0.0	2	0.2	10	0.4
EUROPE	76	2.4	23	0.8	37	3.3	12	1.1	5	0.1	0	0.0	7	0.6	1	0.1	38	1.2
AUSTRIA (1990-2012)	131	2.8	17	0.4	31	1.7	7	0.4	4	0.1	0	0.0	1	0.1	0	0.0	64	1.4
BELARUS, paediatric (1990-2014)	120	6.5	6	0.3	81	12.7	3	0.5	15	0.7	0	0.0	19	3.0	0	0.0	37	2.0
BELGIUM (2004-2013)	0	0.0	13	0.4	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BULGARIA (1990-2013)	24	2.4	10	1.2	14	3.9	5	1.4	0	0.0	0	0.0	0	0.0	4	0.4	0	0.0
CROATIA (2001-2014)	0	0.0	1	0.6	0	0.0	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CYPRUS, South-West (1998-2012)	67	1.6	19	0.5	12	0.7	19	1.1	0	0.0	1	0.0	0	0.0	2	0.1	41	1.0
CZECH REPUBLIC (1990-2012)	18	2.8	0	0.0	15	6.7	2	0.9	2	0.3	0	0.0	6	2.7	0	0.0	11	1.7
ESTONIA (1990-2012)	927	6.1	59	0.4	-	-	-	-	36	0.2	0	0.0	-	-	274	1.8	0	0.0
FRANCE, paediatric (2000-2012)	139	4.3	5	0.2	69	6.2	2	0.2	0	0.0	0	0.0	2	0.2	0	0.0	30	1.0
FRANCE, 13 registries (1993-2012)	905	4.3	64	0.3	-	-	-	-	65	0.3	0	0.0	-	-	328	1.5	0	0.0
GERMANY, paediatric (1996-2012)	0	0.0	7	0.5	0	0.0	8	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
GERMANY, 6 Eastern states (2001-2007)	116	2.3	18	0.4	79	4.2	8	0.4	4	0.1	0	0.0	15	0.8	0	0.0	41	0.8
GERMANY, 5 Western registries (1994-2012)	28	3.5	3	0.4	-	-	-	-	0	0.0	0	0.0	-	-	10	1.3	0	0.0
GREECE, paediatric, CNS tumours (2010-2014)	134	3.3	21	0.5	-	-	-	-	1	0.0	0	0.0	-	-	73	1.8	0	0.0
HUNGARY, paediatric (1991-2014)	8	4.3	0	0.0	3	5.5	0	0.0	0	0.0	0	0.0	1	1.8	0	0.0	4	2.2
ICELAND (1990-2014)	63	3.6	8	0.5	47	7.9	4	0.7	5	0.3	0	0.0	23	3.9	0	0.0	35	2.0
IRELAND (1994-2012)	79	9.3	6	0.7	29	10.1	1	0.3	7	0.7	0	0.0	11	3.8	0	0.0	19	2.2
ITALY, 2 paediatric registries (1998-2011)	90	7.5	6	0.5	-	-	-	-	12	0.9	0	0.0	-	-	20	1.6	0	0.0
ITALY, Piedmont, paediatric (1990-2011)	118	2.8	17	0.4	79	5.2	11	0.7	10	0.2	0	0.0	20	1.3	0	0.0	26	0.6
ITALY, 26 registries (1992-2013)	4	0.6	2	0.3	1	0.3	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LITHUANIA (2000-2012)	3	1.9	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MALTA (1994-2013)	269	4.2	27	0.5	220	10.9	8	0.4	30	0.4	0	0.0	109	5.4	0	0.0	89	1.4
THE NETHERLANDS (1993-2013)	117	5.3	9	0.4	69	9.8	3	0.4	4	0.2	0	0.0	14	2.0	0	0.0	34	1.6
NORWAY (1990-2013)	0	0.0	47	0.6	0	0.0	38	1.1	0	0.0	7	0.1	0	0.0	11	0.3	0	0.0
POLAND (2001-2013)	77	2.8	14	0.5	34	3.3	3	0.3	2	0.1	0	0.0	6	0.6	0	0.0	34	1.2
PORTUGAL (1991-2012)	20	1.9	4	0.5	-	-	-	-	3	0.3	0	0.0	-	-	12	1.2	0	0.0
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	1	0.1	9	0.8	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	1	0.0	0	0.0
RUSSIAN FEDERATION, 2 registries (1998-2015)	60	2.9	7	0.3	34	3.9	3	0.3	1	0.0	0	0.0	5	0.6	0	0.0	35	1.7
SLOVAKIA (1990-2009)	17	1.5	7	0.6	-	-	-	-	0	0.0	0	0.0	-	-	11	1.0	0	0.0
SLOVAKIA, paediatric (2000-2012)	9	1.2	3	0.4	4	1.4	3	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SLOVENIA (1991-2012)	180	3.7	20	0.4	-	-	-	-	14	0.3	0	0.0	-	-	76	1.5	0	0.0
SPAIN, 2 paediatric registries (1991-2013)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results

Italic when fewer than 20 cases of other specified CNS tumours (Ille) in a dataset

Dataset presented only if eligible (see Chapter 5)

Non-malignant other than pituitary astrocytoma collected for only part of the study period in the US datasets

Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.6.a. Other specified intracranial and intraspinal neoplasms (Ille, Ille1, Ille2), part 1 of 2: numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Other specified CNS neoplasms (Ille)						Pituitary adenoma & carcinoma (Ille1)						Craniopharyngioma (Ille2)					
	0-14			15-19			0-14			15-19			0-14			15-19		
	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant
	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate
SPAIN, selected regions, paediatric (2000-2013)	119	3.4	17	0.5	-	-	-	-	-	-	-	-	46	1.3	0	-	-	-
SPAIN, Valencia, paediatric (1991-2010)	61	4.3	3	0.2	-	-	10	0.6	0	0.0	-	-	30	2.1	0	-	-	-
SPAIN, 11 registries (1990-2013)	82	2.4	14	0.4	54	4.1	5	0.4	3	0.1	0	0.0	35	1.0	0	10	0.8	0
SWEDEN (1990-2011)	101	2.8	9	0.3	54	4.4	2	0.2	0	0.0	0	0.0	7	0.2	0	0	0.0	0
SWITZERLAND, paediatric (1990-2013)	131	4.3	22	0.7	-	-	-	-	6	0.2	0	0.0	-	-	-	44	1.4	0
SWITZERLAND, 7 registries (1990-2013)	48	4.3	11	1.0	21	5.8	0	0.0	1	0.1	0	0.0	5	1.4	0	10	0.9	0
UKRAINE (2002-2012)	0	0.0	27	0.3	0	0.0	34	0.9	0	0.0	0	0.0	2	0.1	0	0	0.0	0
UK (2000-2011)	83	0.6	67	0.5	65	1.4	16	0.3	6	0.0	1	0.0	29	0.6	0	36	0.3	0
UK, England and Wales, paediatric (1991-2010)	877	4.3	85	0.4	-	-	-	-	79	0.4	2	0.0	-	-	-	353	1.7	0
OCEANIA																		
AUSTRALIA (1992-2014)	52	0.6	31	0.3	30	1.0	17	0.6	1	0.0	0	0.0	3	0.1	0	10	0.1	0
AUSTRALIA, 3 registries, Indigenous (1992-2014)	4	1.6	0	0.0	1	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	1	0.4	0
FRANCE, 2 registries (1990-2013)	4	1.3	4	1.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
NEW ZEALAND (1993-2012)	0	0.0	8	0.5	0	0.0	2	0.3	0	0.0	0	0.0	0	0.0	0	0	0.0	0
NEW ZEALAND, Maori (1993-2012)	0	0.0	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
NEW ZEALAND, Pacific peoples (1993-2012)	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
NEW ZEALAND, Other (1993-2012)	0	0.0	5	0.4	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	0	0	0.0	0
NEW ZEALAND, paediatric (2000-2012)	39	3.3	6	0.5	-	-	-	-	1	0.1	0	0.0	-	-	-	16	1.3	0
NEW ZEALAND, paediatric, Maori (2000-2012)	7	2.4	2	0.7	-	-	-	-	0	0.0	0	0.0	-	-	-	4	1.4	0
NEW ZEALAND, paediatric, Non-Maori (2000-2012)	32	3.6	4	0.5	-	-	-	-	1	0.1	0	0.0	-	-	-	12	1.2	0

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results

Italic when fewer than 20 cases of other specified CNS tumours (Ille) in a dataset

Dataset presented only if eligible (see Chapter 5)

Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets

Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.6.b. Other specified intracranial and intraspinal neoplasms (Ille3, Ille4, Ille5), part 2 of 2: numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Pineal parenchymal tumours (Ile3)						Neuronal and mixed neuronal-glia tumours (Ile4)						Meningioma (Ile5)											
	0-14			15-19			0-14			15-19			0-14			15-19								
	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant						
	N	ASR		N	Rate		N	ASR		N	Rate		N	ASR		N	Rate		N	ASR	N	Rate		
AFRICA																								
ALGERIA, 5 registries (1996-2014)	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	1	0.1	4	0.6		
BOTSWANA (1999-2007)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
CAMEROON, Yaoundé (2004-2006)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
EGYPT, Gharian (1999-2010)	0	0.0	6	0.4	0	0.0	0	0.0	2	0.1	1	0.1	0	0.0	0	0.0	2	0.1	1	0.1	2	0.4	0	0.0
FRANCE, Réunion (1990-2011)	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0
KENYA, 2 registries (2000-2012)	0	0.0	1	0.1	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LIBYA, Benghazi (2003-2008)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0
MALI, Bamako (2005-2014)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0
MAURITIUS (2001-2013)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	1	0.8
MOROCCO, 2 registries (2005-2012)	1	0.0	1	0.1	0	0.0	1	0.3	2	0.2	0	0.0	0	0.0	0	0.0	1	0.0	2	0.2	1	0.3	1	0.3
SOUTH AFRICA, paediatric (1998-2012)	0	0.0	57	0.3	-	-	-	8	0.0	0	0.0	-	-	-	1	0.0	11	0.0	-	-	-	-	-	-
SOUTH AFRICA, paediatric, Asian (1998-2012)	0	0.0	4	0.9	-	-	-	0	0.0	0	0.0	-	-	-	0	0.0	0	0.0	-	-	-	-	-	-
SOUTH AFRICA, paediatric, Black (1998-2012)	1	0.0	42	0.2	-	-	-	5	0.0	0	0.0	-	-	-	1	0.0	9	0.0	-	-	-	-	-	-
SOUTH AFRICA, paediatric, Coloured (1998-2012)	0	0.0	6	0.3	-	-	-	3	0.2	0	0.0	-	-	-	0	0.0	1	0.1	-	-	-	-	-	-
SOUTH AFRICA, paediatric, White (1998-2012)	0	0.0	5	0.4	-	-	-	0	0.0	0	0.0	-	-	-	0	0.0	1	0.1	-	-	-	-	-	-
TUNISIA, 2 registries (1993-2007)	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.2	0	0.0	1	0.1
UGANDA, Kyadondo (1996-2013)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ZIMBABWE, Harare, African (1995-2013)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0
AMERICA, LATIN AND THE CARIBBEAN																								
ARGENTINA, paediatric (2000-2013)	1	0.0	48	0.3	-	-	-	36	0.2	34	0.2	-	-	-	1	0.0	38	0.2	-	-	-	-	-	-
ARGENTINA, 6 registries (1991-2013)	0	0.0	3	0.1	0	0.0	0	0.0	1	0.0	2	0.1	1	0.1	0	0.0	2	0.1	5	0.2	1	0.1	4	0.5
BRAZIL, 5 registries (1995-2012)	0	0.0	1	0.1	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
CHILE, paediatric (2007-2011)	0	0.0	2	0.1	-	-	-	6	0.3	1	0.1	-	-	-	6	0.3	0	0.0	-	-	-	-	-	-
CHILE, 4 registries (1998-2012)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	1	0.6	0	0.0	7	1.4	0	0.0	0	0.0	1	0.6
COLOMBIA, 4 registries (1992-2013)	0	0.0	5	0.3	0	0.0	2	0.3	2	0.1	1	0.0	2	0.3	1	0.2	8	0.4	4	0.2	7	1.1	2	0.3
COSTA RICA (1993-2012)	0	0.0	3	0.1	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CUBA (2000-2012)	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.2	0	0.0	0	0.0
ECUADOR, 5 registries (1993-2013)	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	2	0.3	2	0.3
FRANCE, 3 registries (1990-2012)	0	0.0	3	0.8	0	0.0	0	0.0	5	1.5	1	0.3	3	2.8	0	0.0	0	0.0	0	0.0	2	1.9	1	0.9
HONDURAS, Francisco Morazan (2002-2012)	0	0.0	3	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	2	0.4	1	0.7	0	0.0
JAMAICA, Kingston and St Andrew (1992-2012)	0	0.0	1	0.1	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MEXICO, Mexico City, paediatric (1997-2013)	0	0.0	4	0.4	-	-	-	5	0.5	0	0.0	-	-	-	2	0.2	1	0.1	-	-	-	-	-	-
PERU, Lima (2010-2012)	1	0.2	1	0.2	0	0.0	0	0.0	1	0.1	0	0.1	0	0.0	0	0.0	9	1.3	1	0.1	4	1.5	4	1.5
PERU, Trujillo (1990-2002)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
USA, Puerto Rico (1992-2012)	2	0.1	4	0.2	0	0.0	1	0.2	4	0.2	0	0.0	4	0.6	0	0.0	2	0.1	3	0.2	3	0.5	2	0.3
URUGUAY (1993-2012)	0	0.0	7	0.4	0	0.0	1	0.2	0	0.0	1	0.1	0	0.0	1	0.2	0	0.0	1	0.1	0	0.0	1	0.2
AMERICA, NORTH																								
CANADA, 9 registries (1992-2013)	1	0.0	30	0.3	0	0.0	9	0.2	92	0.8	11	0.1	61	1.5	0	0.0	28	0.2	7	0.1	35	0.8	4	0.1
USA (2004-2012)	33	0.1	203	0.4	30	0.2	52	0.3	1590	2.8	95	0.2	794	4.1	37	0.2	422	0.7	33	0.1	460	2.3	21	0.1
USA, API (2004-2012)	0	0.0	3	0.1	0	0.0	1	0.1	29	1.0	2	0.1	24	2.4	0	0.0	14	0.5	2	0.1	18	1.8	0	0.0
USA, Black (2004-2012)	4	0.0	73	0.8	4	0.1	16	0.5	187	2.0	11	0.1	90	2.7	9	0.3	72	0.7	5	0.1	67	2.0	5	0.2
USA, Hispanic White (2004-2012)	5	0.0	41	0.4	4	0.1	5	0.1	216	1.9	9	0.1	86	2.5	8	0.2	54	0.5	4	0.0	51	1.5	3	0.1
USA, Native American (2004-2012)	1	0.1	1	0.1	0	0.0	1	0.3	13	1.3	1	0.1	6	1.8	1	0.3	3	0.3	1	0.1	7	2.1	0	0.0
USA, White NH (2004-2012)	20	0.1	80	0.3	20	0.2	29	0.3	1093	3.4	69	0.2	566	4.9	18	0.2	272	0.9	20	0.1	305	2.6	12	0.1
USA, NPCR (2004-2012)	33	0.1	196	0.4	30	0.2	51	0.3	1590	2.9	93	0.2	794	4.2	36	0.2	422	0.8	31	0.1	460	2.5	21	0.1
USA, SEER 18 (2004-2012)	0	0.0	54	0.4	0	0.0	18	0.3	0	0.0	21	0.1	0	0.0	9	0.2	0	0.0	10	0.1	0	0.0	5	0.1
USA, Hawaii, Hawaiian (2004-2012)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ASIA																								
BAHRAIN (1998-2012)	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CHINA, 6 registries (1990-2013)	2	0.0	6	0.1	2	0.1	1	0.0	10	0.2	0	0.0	6	0.2	1	0.0	19	0.3	3	0.0	14	0.5	6	0.2
CHINA, Hong Kong (1990-2013)	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	2	0.1	0	0.0	0	0.0
INDIA, 7 registries (1990-2013)	0	0.0	23	0.1	0	0.0	13	0.2	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	6	0.0	0	0.0	2	0.0
ISLAMIC REPUBLIC OF IRAN, Golestan (2004-2011)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	2	1.2

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of other specified CNS tumours (Ille) in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

Table 10.6.b. Other specified intracranial and intraspinal neoplasms (Ille3, Ille4, Ille5), part 2 of 2: numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Pineal parenchymal tumours (Ile3)						Neuronal and mixed neuronal-glia tumours (Ile4)						Meningioma (Ile5)												
	0-14			15-19			0-14			15-19			0-14			15-19									
	Non-malignant	Malignant	Behaviour	Non-malignant	Rate	Malignant	Non-malignant	ASR	N	Rate	Malignant	Non-malignant	ASR	N	Rate	Malignant	Non-malignant	ASR	N	Rate	Malignant	Non-malignant	ASR	N	Rate
ISRAEL (1990-2012)	0	0.0	11	0.3	0	0.0	3	0.2	48	1.2	2	0.0	22	1.8	1	0.1	18	0.4	1	0.0	25	2.0	1	0.1	0.1
	0	0.0	8	0.3	0	0.0	3	0.3	34	1.1	2	0.1	16	1.7	0	0.0	15	0.5	1	0.0	18	1.9	0	0.0	0.0
ISRAEL, Non-Jews (1990-2012)	0	0.0	3	0.3	0	0.0	0	0.0	14	1.3	0	0.0	6	2.0	1	0.3	3	0.3	0	0.0	7	2.4	1	0.3	0.3
JAPAN, 8 registries (1990-2013)	3	0.0	14	0.2	2	0.1	8	0.3	48	0.8	0	0.0	24	1.0	0	0.0	19	0.3	3	0.0	18	0.7	2	0.1	0.1
JORDAN, Jordanians (2000-2012)	0	0.0	5	0.2	0	0.0	3	0.4	0	0.0	2	0.1	0	0.0	7	0.1	0	0.0	4	0.2	0	0.0	7	0.1	0.1
REPUBLIC OF KOREA (1999-2012)	0	0.0	26	0.2	0	0.0	5	0.1	0	0.0	4	0.0	0	0.0	3	0.1	0	0.0	15	0.1	0	0.0	5	0.1	0.0
KUWAIT (1994-2012)	0	0.0	2	0.2	0	0.0	0	0.0	3	0.3	0	0.0	2	0.6	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0.0
KUWAIT, Kuwaitis (1994-2012)	0	0.0	0	0.0	0	0.0	0	0.0	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0.0
KUWAIT, Non-Kuwaitis (1994-2012)	0	0.0	2	0.4	0	0.0	0	0.0	1	0.2	0	0.0	2	1.5	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0.0
LEBANON (2008-2010)	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	1	0.8	0.8
PAKISTAN, Karachi (1995-2002)	0	0.0	2	0.3	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.4	0.0
PAKISTAN, Lahore (2008-2012)	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	4	0.7	1	0.2	0.2
PHILIPPINES, 2 registries (1993-2012)	0	0.0	3	0.0	0	0.0	2	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0.0
QATAR (2002-2014)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.3	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0.0
SAUDI ARABIA, Riyadh (1994-2012)	0	0.0	6	0.2	0	0.0	3	0.3	0	0.0	7	0.2	0	0.0	1	0.1	0	0.0	3	0.1	0	0.0	2	0.2	0.2
SAUDI ARABIA, Riyadh, Saudis (1994-2012)	0	0.0	5	0.2	0	0.0	1	0.3	1	0.0	7	0.3	0	0.0	1	0.1	0	0.0	1	0.0	0	0.0	1	0.1	0.1
SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	0	0.0	1	0.2	0	0.0	2	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.3	0	0.0	1	0.8	0.8
THAILAND, 6 registries (1993-2013)	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	8	0.2	0	0.0	5	0.3	0.3
TURKEY, paediatric (2009-2011)	1	0.0	7	0.1	-	-	-	-	16	0.3	2	0.0	-	-	-	-	3	0.0	2	0.0	-	-	-	-	-
TURKEY, 8 registries (1992-2012)	1	0.0	6	0.2	1	0.1	2	0.1	32	0.8	3	0.1	11	0.8	2	0.1	23	0.5	5	0.1	16	1.1	5	0.3	0.3
VIET NAM, Ho Chi Minh City (1995-2013)	1	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	1	0.1	1	0.1	0.1
EUROPE	0	0.0	13	0.4	1	0.1	5	0.4	28	0.9	5	0.2	14	1.3	1	0.1	5	0.1	5	0.2	6	0.5	5	0.4	0.4
AUSTRIA (1990-2012)	0	0.0	13	0.4	1	0.1	5	0.4	28	0.9	5	0.2	14	1.3	1	0.1	5	0.1	5	0.2	6	0.5	5	0.4	0.4
BELARUS, paediatric (1990-2014)	5	0.1	8	0.2	0	0.0	0	0.0	36	0.8	0	0.0	9	0.5	0	0.0	22	0.4	9	0.2	6	0.3	7	0.4	0.4
BELGIUM (2004-2013)	0	0.0	4	0.2	1	0.2	0	0.0	52	2.9	1	0.1	41	6.4	1	0.2	16	0.9	1	0.0	13	2.0	2	0.3	0.3
BULGARIA (1990-2013)	0	0.0	7	0.2	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.2	0	0.0	1	0.1	0.1
CROATIA (2001-2014)	0	0.0	2	0.2	0	0.0	1	0.3	9	0.9	3	0.3	7	2.0	3	0.8	11	1.1	5	0.6	7	2.0	1	0.3	0.3
CYPRUS, South-West (1998-2012)	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.1	0.1
CZECH REPUBLIC (1990-2012)	0	0.0	4	0.1	1	0.1	5	0.3	21	0.5	7	0.2	7	0.4	5	0.3	5	0.1	7	0.2	0	0.0	7	0.4	0.4
ESTONIA (1990-2012)	1	0.1	0	0.0	0	0.0	2	0.9	3	0.5	0	0.0	1	0.4	0	0.0	1	0.1	0	0.0	6	2.7	0	0.0	0.0
FRANCE, paediatric (2000-2012)	6	0.0	35	0.2	-	-	-	-	527	3.5	19	0.1	-	-	-	-	84	0.5	5	0.0	-	-	-	-	-
FRANCE, 13 registries (1993-2012)	2	0.1	3	0.1	0	0.0	1	0.1	94	2.9	2	0.1	42	3.8	1	0.1	13	0.4	0	0.0	20	1.8	0	0.0	0.0
GERMANY, paediatric (1996-2012)	18	0.1	42	0.2	-	-	-	-	418	2.0	12	0.1	-	-	-	-	76	0.3	10	0.0	-	-	-	-	-
GERMANY, 6 Eastern states (2001-2007)	0	0.0	4	0.3	0	0.0	2	0.3	0	0.0	2	0.2	0	0.0	5	0.7	0	0.0	1	0.1	0	0.0	1	0.1	0.1
GERMANY, 5 Western registries (1994-2012)	2	0.0	8	0.2	3	0.2	3	0.2	52	1.0	5	0.1	38	2.0	5	0.3	17	0.4	5	0.1	8	0.4	0	0.0	0.0
GREECE, paediatric, CNS tumours (2010-2014)	1	0.1	2	0.3	-	-	-	-	15	1.8	1	0.1	-	-	-	-	2	0.3	0	0.0	-	-	-	-	-
HUNGARY, paediatric (1991-2014)	4	0.1	8	0.2	-	-	-	-	51	1.3	6	0.1	-	-	-	-	5	0.1	7	0.2	-	-	-	-	-
ICELAND (1990-2014)	0	0.0	0	0.0	0	0.0	0	0.0	3	1.6	0	0.0	1	1.8	0	0.0	1	0.5	0	0.0	1	1.8	0	0.0	0.0
IRELAND (1994-2012)	0	0.0	6	0.4	0	0.0	3	0.5	14	0.8	1	0.1	12	2.0	0	0.0	9	0.6	1	0.1	3	0.5	1	0.2	0.2
ITALY, 2 paediatric registries (1998-2011)	0	0.0	3	0.4	2	0.7	0	0.0	47	5.7	2	0.2	10	3.5	1	0.3	6	0.7	1	0.1	4	1.4	0	0.0	0.0
ITALY, Piedmont, paediatric (1990-2011)	2	0.2	3	0.3	-	-	-	-	52	4.5	2	0.2	-	-	-	-	4	0.3	1	0.1	-	-	-	-	-
ITALY, 26 registries (1992-2013)	1	0.0	10	0.2	1	0.1	8	0.5	62	1.5	3	0.1	33	2.2	0	0.0	19	0.4	4	0.1	16	1.1	3	0.2	0.2
LITHUANIA (2000-2012)	0	0.0	2	0.3	0	0.0	0	0.0	3	0.5	0	0.0	1	0.3	1	0.3	1	0.1	0	0.0	0	0.0	0	0.0	0.0
MALTA (1994-2013)	0	0.0	1	0.7	0	0.0	0	0.0	2	1.4	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0.0
THE NETHERLANDS (1993-2013)	2	0.0	17	0.3	1	0.0	4	0.2	125	2.0	5	0.1	56	2.8	2	0.1	23	0.4	5	0.1	36	1.8	2	0.1	0.1
NORWAY (1990-2013)	3	0.1	6	0.3	2	0.3	1	0.1	59	2.6	2	0.1	27	3.8	1	0.1	17	0.7	0	0.0	15	2.1	0	0.0	0.0
POLAND (2001-2013)	0	0.0	24	0.3	0	0.0	12	0.3	0	0.0	10	0.1	0	0.0	4	0.1	0	0.0	6	0.1	0	0.0	11	0.3	0.3
PORTUGAL (1991-2012)	0	0.0	10	0.4	2	0.2	2	0.2	35	1.3	1	0.0	9	0.9	1	0.1	6	0.2	3	0.1	10	1.0	0	0.0	0.0
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	1	0.1	4	0.5	-	-	-	-	1	0.1	0	0.0	-	-	-	-	3	0.2	0	0.0	-	-	-	-	-
RUSSIAN FEDERATION, 2 registries (1998-2015)	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.6	0	0.0	0	0.0	0.0
SLOVAKIA (1990-2009)	3	0.1	3	0.1	2	0.2	2	0.2	8	0.4	1	0.0	5	0.6	0	0.0	13	0.6	3	0.1	12	1.4	1	0.1	0.1
SLOVAKIA, paediatric (2000-2012)	0	0.0	4	0.3	-	-	-	-	2	0.2	1	0.1	-	-	-	-	4	0.3	2	0.2	-	-	-	-	-
SLOVENIA (1991-2012)	0	0.0	1	0.2	0	0.0	1	0.3	4	0.5	1	0.1	0	0.0	1	0.3	5	0.7	1	0.1	4	1.4	1	0.3	0.3
SPAIN, 2 paediatric registries (1991-2013)	8	0.2	14	0.3	-	-	-	-	66	1.4	2	0.0	-	-	-	-	16	0.3	4	0.1	-	-	-	-	-

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results

Italic when fewer than 20 cases of other specified CNS tumours (Ille) in a dataset

Dataset presented only if eligible (see Chapter 5)

Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets

Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.6.b. Other specified intracranial and intraspinal neoplasms (Ille3, Ille4, Ille5), part 2 of 2: numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Pineal parenchymal tumours (Ille3)						Neuronal and mixed neuronal-gliai tumours (Ille4)						Meningioma (Ille5)					
	0-14			15-19			0-14			15-19			0-14			15-19		
	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant	Non-malignant		Malignant
	N	ASR	Rate	N	Rate	Rate	N	ASR	Rate	N	Rate	Rate	N	ASR	Rate	N	Rate	Rate
SPAIN, selected regions, paediatric (2000-2013)	4	0.1	14	0.4	-	-	53	1.5	2	0.1	-	-	12	0.3	1	0.0	-	-
SPAIN, Valencia, paediatric (1991-2010)	4	0.3	0	0.0	-	-	13	1.0	0	0.0	-	-	4	0.3	3	0.2	-	-
SPAIN, 11 registries (1990-2013)	3	0.1	8	0.3	1	0.1	23	0.8	1	0.0	14	1.1	1	0.1	18	0.5	5	0.1
SWEDEN (1990-2011)	0	0.0	9	0.3	0	0.0	68	1.9	0	0.0	30	2.5	0	0.0	26	0.7	0	0.0
SWITZERLAND, paediatric (1990-2013)	1	0.0	13	0.4	-	-	56	1.9	4	0.1	-	-	24	0.8	5	0.2	-	-
SWITZERLAND, 7 registries (1990-2013)	0	0.0	3	0.3	0	0.0	22	2.0	4	0.4	13	3.6	0	0.0	15	1.3	4	0.3
UKRAINE (2002-2012)	0	0.0	5	0.1	0	0.0	2	0.1	0	0.0	2	0.0	4	0.1	0	0.0	19	0.2
UK (2000-2011)	0	0.0	56	0.4	1	0.0	34	0.3	8	0.1	11	0.2	4	0.1	7	0.0	2	0.0
UK, England and Wales, paediatric (1991-2010)	17	0.1	67	0.4	-	-	340	1.7	6	0.0	-	-	88	0.4	10	0.0	-	-
OCEANIA	1	0.0	18	0.2	0	0.0	31	0.4	5	0.0	17	0.6	4	0.1	9	0.1	8	0.1
AUSTRALIA (1992-2014)	0	0.0	0	0.0	0	0.0	2	0.8	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0
AUSTRALIA, 3 registries, Indigenous (1992-2014)	0	0.0	2	0.6	0	0.0	3	1.0	2	0.6	0	0.0	0	0.0	1	0.3	0	0.0
FRANCE, 2 registries (1990-2013)	0	0.0	8	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NEW ZEALAND (1993-2012)	0	0.0	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NEW ZEALAND, Maori (1993-2012)	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NEW ZEALAND, Pacific peoples (1993-2012)	0	0.0	5	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NEW ZEALAND, Other (1993-2012)	0	0.0	6	0.5	-	-	17	1.6	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0
NEW ZEALAND, paediatric (2000-2012)	0	0.0	2	0.7	-	-	2	0.7	0	0.0	-	-	5	0.4	0	0.0	0	0.0
NEW ZEALAND, paediatric, Maori (2000-2012)	0	0.0	4	0.5	-	-	15	1.9	0	0.0	-	-	1	0.3	0	0.0	-	-
NEW ZEALAND, paediatric, Non-Maori (2000-2012)	0	0.0	0	0.0	-	-	0	0.0	0	0.0	-	-	4	0.4	0	0.0	-	-

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of other specified CNS tumours (Ille) in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.7. Unspecified intracranial and intraspinal neoplasms (IIIf): numbers of cases and incidence rates per million by age and behaviour

Behaviour	Age group (years)																											
	0-14				0-19				0-4				5-9				10-14				15-19							
	Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant					
	N	ASR	N	ASR	N	ASR	N	ASR	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate				
AFRICA	ALGERIA, 5 registries (1996-2014)	5	0.3	73	4.2	8	0.3	109	4.5	2	0.3	24	4.2	1	0.2	27	4.9	2	0.3	22	3.6	3	0.4	36	5.3			
	BOTSWANA (1999-2007)	0	0.0	7	1.2	0	0.0	7	0.9	0	0.0	1	0.5	0	0.0	3	1.6	0	0.0	3	1.6	0	0.0	0	0.0			
	CAMEROON, Yaoundé (2004-2006)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
	EGYPT, Gharbiyah (1999-2010)	2	0.1	70	4.8	2	0.1	85	4.3	0	0.0	29	6.1	0	0.0	20	4.0	2	0.4	21	3.9	0	0.0	15	2.7			
	FRANCE, Réunion (1990-2011)	0	0.0	9	2.1	0	0.0	10	1.8	0	0.0	4	2.7	0	0.0	3	2.0	0	0.0	2	1.3	0	0.0	1	0.7			
	KENYA, 2 registries (2000-2012)	1	0.1	24	2.2	1	0.1	30	2.2	0	0.0	8	1.9	0	0.0	6	1.7	1	0.3	10	3.4	0	0.0	6	2.0			
	LIBYA, Benghazi (2003-2008)	0	0.0	13	4.4	0	0.0	17	4.3	0	0.0	5	4.9	0	0.0	4	4.2	0	0.0	4	4.1	0	0.0	4	4.0			
	MALI, Bamako (2005-2014)	1	0.1	14	1.9	1	0.1	15	1.6	0	0.0	6	2.1	0	0.0	4	1.7	1	0.5	4	1.9	0	0.0	1	0.4			
	MAURITIUS (2001-2013)	0	0.0	13	3.4	0	0.0	20	3.8	0	0.0	3	2.6	0	0.0	7	5.5	0	0.0	3	2.2	0	0.0	7	5.3			
	MOROCCO, 2 registries (2005-2012)	0	0.0	19	2.2	0	0.0	20	1.8	0	0.0	8	2.7	0	0.0	7	2.4	0	0.0	4	1.3	0	0.0	1	0.3			
	SOUTH AFRICA, paediatric (1998-2012)	70	0.3	125	0.6	-	-	-	-	17	0.2	56	0.7	34	0.5	45	0.6	19	0.3	24	0.3	-	-	-	-			
	SOUTH AFRICA, paediatric, Asian (1998-2012)	2	0.5	1	0.3	-	-	-	-	1	0.8	1	0.8	0	0.0	0	0.0	1	0.7	0	0.0	-	-	-	-			
	SOUTH AFRICA, paediatric, Black (1998-2012)	54	0.3	96	0.5	-	-	-	-	14	0.2	41	0.6	25	0.4	34	0.6	15	0.2	21	0.3	-	-	-	-			
	SOUTH AFRICA, paediatric, Coloured (1998-2012)	8	0.4	21	1.2	-	-	-	-	1	0.2	11	1.7	6	1.0	8	1.3	1	0.2	2	0.3	-	-	-	-			
	SOUTH AFRICA, paediatric, White (1998-2012)	6	0.5	7	0.6	-	-	-	-	1	0.3	3	0.8	3	0.8	3	0.8	2	0.5	1	0.2	-	-	-	-			
	TUNISIA, 2 registries (1993-2007)	0	0.0	35	1.9	0	0.0	39	1.6	0	0.0	10	1.7	0	0.0	19	3.0	0	0.0	6	0.9	0	0.0	4	0.6			
	UGANDA, Kyedondo (1996-2013)	0	0.0	32	2.4	0	0.0	40	2.2	0	0.0	11	2.2	0	0.0	10	2.3	0	0.0	11	2.6	0	0.0	8	1.8			
	ZIMBABWE, Harare, African (1995-2013)	0	0.0	56	6.6	0	0.0	71	6.3	0	0.0	14	3.9	0	0.0	23	8.6	0	0.0	19	8.0	0	0.0	15	5.1			
	AMERICA, LATIN AND THE CARIBBEAN																											
	ARGENTINA, paediatric (2000-2013)	0	0.0	742	5.2	-	-	-	-	0	0.0	281	5.8	0	0.0	264	5.5	0	0.0	197	4.1	-	-	-	-			
ARGENTINA, 6 registries (1991-2013)	8	0.4	79	3.6	12	0.4	104	3.6	3	0.4	28	3.9	0	0.0	29	4.0	5	0.7	22	2.9	4	0.5	25	3.4				
BRAZIL, 5 registries (1995-2012)	0	0.0	76	4.3	0	0.0	99	4.0	0	0.0	33	5.6	0	0.0	25	4.1	0	0.0	18	2.8	0	0.0	23	3.1				
CHILE, paediatric (2007-2011)	14	0.8	45	2.5	-	-	-	-	6	1.0	21	3.5	7	1.1	12	2.0	1	0.1	12	1.8	-	-	-	-				
CHILE, 4 registries (1998-2012)	1	0.2	16	3.8	2	0.3	23	3.9	0	0.0	9	6.4	1	0.7	3	2.0	0	0.0	4	2.4	1	0.6	7	4.1				
COLOMBIA, 4 registries (1992-2013)	24	1.5	40	2.3	35	1.5	54	2.3	11	2.0	14	2.5	9	1.5	12	2.1	4	0.7	14	2.3	11	1.8	14	2.3				
COSTA RICA (1993-2012)	0	0.0	92	4.0	0	0.0	110	3.6	0	0.0	33	4.3	0	0.0	45	5.6	0	0.0	14	1.7	0	0.0	18	2.3				
CUBA (2000-2012)	1	0.0	139	5.2	2	0.0	177	4.9	0	0.0	44	5.2	0	0.0	59	6.6	1	0.1	36	3.6	1	0.1	38	3.7				
ECUADOR, 5 registries (1993-2013)	0	0.0	61	2.8	1	0.0	73	2.6	0	0.0	22	3.1	0	0.0	27	3.7	0	0.0	12	1.6	1	0.1	12	1.6				
FRANCE, 3 registries (1990-2012)	6	2.1	5	1.6	8	2.0	5	1.2	4	3.9	2	2.0	0	0.0	1	1.0	2	1.8	2	1.9	0	0.0	0	0.0				
HONDURAS, Francisco Morazán (2002-2012)	8	1.6	4	0.7	8	1.2	5	0.7	3	1.7	0	0.0	2	1.2	3	1.7	3	1.9	7	0.6	0	0.0	1	0.7				
JAMAICA, Kingston and St Andrew (1982-2012)	0	0.0	3	0.5	0	0.0	7	0.8	0	0.0	1	0.5	0	0.0	1	0.5	0	0.0	1	0.5	0	0.0	4	2.0				
MEXICO, Mexico City, paediatric (1997-2013)	1	0.1	2	0.2	-	-	-	-	0	0.0	2	0.5	1	0.2	0	0.0	0	0.0	0	0.0	-	-	-	-				
PERU, Lima (2010-2012)	27	4.0	19	2.7	39	4.1	25	2.6	12	5.1	6	2.5	10	4.3	6	2.6	5	2.1	7	3.0	12	4.5	6	2.3				
PERU, Trujillo (1990-2002)	0	0.0	15	6.4	0	0.0	21	6.5	0	0.0	4	5.0	0	0.0	8	10.4	0	0.0	3	3.7	0	0.0	6	6.9				
USA, Puerto Rico (1992-2012)	7	0.4	28	1.6	10	0.4	45	1.8	3	0.5	9	1.6	1	0.2	9	1.5	3	0.5	10	1.6	3	0.5	17	2.7				
URUGUAY (1993-2012)	0	0.0	50	3.5	0	0.0	62	3.2	0	0.0	28	5.7	0	0.0	15	2.9	0	0.0	7	1.3	0	0.0	12	2.3				
AMERICA, NORTH																												
CANADA, 9 registries (1992-2013)	70	0.6	154	1.4	105	0.7	202	1.3	26	0.7	65	1.8	21	0.5	37	1.0	23	0.6	52	1.3	35	0.8	48	1.1				
USA (2004-2012)	590	1.1	291	0.5	956	1.2	363	0.5	183	1.0	122	0.7	156	0.9	85	0.5	251	1.3	84	0.4	366	1.9	72	0.4				
USA, API (2004-2012)	12	0.4	9	0.3	19	0.5	10	0.3	8	0.8	6	0.6	1	0.1	0	0.0	3	0.3	3	0.3	7	0.7	1	0.1				
USA, Black (2004-2012)	75	0.8	55	0.6	120	0.9	62	0.5	19	0.6	16	0.5	21	0.7	19	0.7	35	1.1	20	0.6	45	1.4	7	0.2				
USA, Hispanic White (2004-2012)	121	1.1	47	0.4	186	1.3	65	0.5	42	1.1	20	0.5	36	1.0	15	0.4	43	1.2	12	0.3	65	1.9	18	0.5				
USA, Native American (2004-2012)	2	0.2	4	0.4	5	0.4	7	0.5	1	0.3	1	0.3	0	0.0	2	0.7	1	0.3	3	0.9	3	0.9	3	0.9				
USA, White NH (2004-2012)	339	1.1	160	0.5	569	1.3	201	0.5	96	1.0	73	0.7	89	0.9	47	0.5	154	1.4	40	0.4	230	2.0	41	0.4				
USA, NPCR (2004-2012)	590	1.1	281	0.5	956	1.3	351	0.5	183	1.1	115	0.7	156	0.9	84	0.5	251	1.4	82	0.5	366	2.0	70	0.4				
USA, SEER 18 (2004-2012)	0	0.0	55	0.4	0	0.0	67	0.3	0	0.0	26	0.5	0	0.0	13	0.3	0	0.0	16	0.3	0	0.0	12	0.2				
USA, Hawaii, Hawaiian (2004-2012)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0				
ASIA																												
BAHRAIN (1998-2012)	6	1.8	4	1.3	8	1.9	5	1.3	1	0.9	2	1.8	2	1.9	0	0.0	3	3.0	2	2.0	2	2.2	1	1.1				
CHINA, 6 registries (1990-2013)	39	0.7	245	4.5	53	0.6	355	4.3	11	0.7	89	5.4	14	0.8	70	3.9	14	0.6	86	4.0	14	0.5	110	3.9				
CHINA, Hong Kong (1990-2013)	0	0.0	59	2.4	0	0.0	73	2.2	0	0.0	17	2.4	0	0.0	24	2.9	0	0.0	18	1.9	0	0.0	14	1.3				
INDIA, 7 registries (1990-2013)	0	0.0	216	1.3	0	0.0	295	1.3	0	0.0	62	1.2	0	0.0	88	1.5	0	0.0	66	1.1	0	0.0	79	1.2				
INDIA, 7 registries (1990-2013)	0	0.0	11	3.0	0	0.0	29	4.7	0	0.0	2	1.8	0	0.0	4	3.7	0	0.0	5	3.7	0	0.0	18	10.6				

Table 10.7. Unspecified intracranial and intraspinal neoplasms (llif): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Behaviour	0-14				0-19				0-4				5-9				10-14				15-19																	
		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant															
		N	ASR	N	ASR	N	ASR	N	ASR	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate														
ISRAEL (1990-2012)	ISRAEL, Jews (1990-2012)	69	1.7	55	1.4	95	1.8	74	1.4	26	1.8	29	2.0	21	1.5	14	1.0	22	1.7	12	0.9	26	2.1	19	1.6														
		44	1.5	46	1.6	62	1.6	58	1.5	16	1.5	25	2.4	12	1.2	10	1.0	16	1.7	11	1.2	18	1.9	12	1.3														
		ISRAEL, Non-Jews (1990-2012)	25	2.2	9	0.8	33	2.3	16	1.2	10	2.4	4	1.0	9	2.4	4	1.1	6	1.8	1	0.3	8	2.7	7	2.4													
			99	1.7	201	3.4	134	1.6	246	3.0	34	1.8	76	4.0	34	1.7	62	3.1	31	1.4	63	2.9	35	1.4	45	1.9													
			JORDAN, Jordanians (2000-2012)	0	0.0	18	0.7	0	0.0	22	0.6	0	0.0	8	0.9	0	0.0	9	1.0	0	0.0	1	0.1	0	0.0	4	0.5												
				0	0.0	424	3.4	0	0.0	574	3.3	0	0.0	132	3.6	0	0.0	150	3.5	0	0.0	142	3.0	0	0.0	150	3.1												
				REPUBLIC OF KOREA (1999-2012)	0	0.0	2	0.2	1	0.1	3	0.2	0	0.0	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	1	0.3	1	0.3											
					0	0.0	1	0.1	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5											
					KUWAIT, Kuwaitis (1994-2012)	0	0.0	1	0.2	1	0.2	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	1	0.7	0	0.0										
						0	0.0	2	0.4	0	0.0	3	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.5	0	0.0	1	0.8										
						LEBANON (2008-2010)	0	0.0	5	0.9	0	0.0	6	0.8	0	0.0	2	1.0	0	0.0	2	1.0	0	0.0	1	0.6	0	0.0	1	0.7									
							2	0.1	10	0.5	4	0.2	15	0.6	0	0.0	2	0.3	1	0.2	3	0.5	1	0.2	5	0.8	2	0.4	5	0.9									
							PAKISTAN, Karachi (1995-2002)	0	0.0	166	2.2	0	0.0	209	2.1	0	0.0	52	1.9	0	0.0	69	2.8	0	0.0	45	2.0	0	0.0	43	1.8								
								0	0.0	4	1.3	0	0.0	5	1.3	0	0.0	1	0.9	0	0.0	2	2.0	0	0.0	1	1.2	0	0.0	1	1.3								
								QATAR (2002-2014)	0	0.0	17	0.5	0	0.0	23	0.5	0	0.0	6	0.5	0	0.0	7	0.6	0	0.0	4	0.4	0	0.0	6	0.7							
									0	0.0	17	0.6	0	0.0	22	0.6	0	0.0	6	0.6	0	0.0	7	0.7	0	0.0	4	0.5	0	0.0	5	0.7							
									SAUDI ARABIA, Riyadh (1994-2012)	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8						
										0	0.0	157	3.9	1	0.0	196	3.6	0	0.0	41	3.3	0	0.0	64	4.8	1	0.1	52	3.7	0	0.0	39	2.4						
										SAUDI ARABIA, Riyadh, Saudiis (1994-2012)	9	0.2	9	0.2	-	-	-	-	4	0.2	5	0.3	2	0.1	2	0.1	3	0.2	2	0.1	-	-	-	-					
											44	1.1	38	1.0	67	1.2	57	1.1	9	0.7	15	1.2	17	1.3	13	1.0	18	1.3	10	0.7	23	1.6	19	1.3					
SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	0										0.0	114	4.7	0	0.0	144	4.2	0	0.0	36	4.4	0	0.0	47	5.8	0	0.0	31	3.9	0	0.0	30	2.7						
	EUROPE																																						
	AUSTRIA (1990-2012)	16									0.5	79	2.8	22	0.5	104	2.7	4	0.4	42	4.3	4	0.4	25	2.4	8	0.7	12	1.1	6	0.5	25	2.2						
		24									0.6	200	4.9	30	0.5	246	4.4	10	0.7	96	7.1	5	0.3	65	4.5	9	0.5	39	2.4	6	0.3	46	2.6						
		BELGIUM (2004-2013)	20								1.1	9	0.5	31	1.2	13	0.5	8	1.3	2	0.3	4	0.7	5	0.8	8	1.3	2	0.3	11	1.7	4	0.6						
			0								0.0	163	5.7	0	0.0	199	5.0	0	0.0	70	7.6	0	0.0	49	4.9	0	0.0	44	3.9	0	0.0	36	2.8						
			BULGARIA (1990-2013)	50							5.0	71	8.1	97	6.8	102	8.2	8	2.7	34	11.6	16	5.2	19	6.1	26	7.9	18	5.4	47	13.2	31	8.7						
				0							0.0	7	3.2	0	0.0	9	3.0	0	0.0	2	3.0	0	0.0	3	4.1	0	0.0	2	2.5	0	0.0	2	2.3						
				CYPRUS, South-West (1998-2012)	22						0.6	205	5.4	32	0.6	260	4.9	6	0.5	88	7.1	9	0.7	63	4.9	7	0.5	54	3.7	10	0.6	55	3.3						
					15						2.5	10	1.6	25	2.9	17	2.0	3	1.7	2	1.1	6	3.1	3	1.6	6	2.9	5	2.4	10	4.5	7	3.1						
					CZECH REPUBLIC (1990-2012)	55					0.4	24	0.2	-	-	-	-	20	0.4	12	0.2	9	0.2	7	0.1	26	0.5	5	0.1	-	-	-	-						
						73					0.7	26	0.8	26	0.6	30	0.7	3	0.3	8	0.8	8	0.8	10	1.0	12	1.1	8	0.8	3	0.3	4	0.4						
						ESTONIA (1990-2012)	103				0.5	13	0.1	-	-	-	-	37	0.6	7	0.1	31	0.5	4	0.1	35	0.5	2	0.0	-	-	-	-						
							0				0.0	36	2.7	0	0.0	43	2.3	0	0.0	15	3.4	0	0.0	7	1.7	0	0.0	14	2.7	0	0.0	7	0.9						
							FRANCE, paediatric (2000-2012)	30			0.6	61	1.3	39	0.6	74	1.1	14	0.9	23	1.5	8	0.5	17	1.0	8	0.4	21	1.2	9	0.5	13	0.7						
								3			0.3	0	0.0	-	-	-	-	0	0.0	0	0.0	2	0.7	0	0.0	0	0.0	1	0.4	0	0.0	-	-						
								FRANCE, 13 registries (1993-2012)	0		0.0	2	0.0	-	-	-	-	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	1	0.1	-	-	-	-						
									0		0.0	12	7.1	0	0.0	14	6.3	0	0.0	3	5.4	0	0.0	3	5.5	0	0.0	6	11.1	0	0.0	2	3.7						
									GERMANY, paediatric (1996-2012)	4	0.3	23	1.4	8	0.4	37	1.6	3	0.5	9	1.6	0	0.0	6	1.1	1	0.2	8	1.4	4	0.7	14	2.4						
										14	1.6	7	0.8	15	1.3	7	0.6	1	0.4	3	1.1	8	2.9	1	0.4	5	1.8	3	1.1	1	0.3	0	0.0						
GERMANY, 6 Eastern states (2001-2007)										21	1.7	19	1.7	-	-	-	-	4	1.0	8	2.1	10	2.6	6	1.6	7	1.7	5	1.2	-	-	-	-						
										132	3.1	206	5.1	234	4.0	251	4.6	34	2.5	77	5.6	42	3.1	77	5.7	56	4.0	52	3.7	102	6.8	45	3.0						
	GERMANY, 5 Western registries (1994-2012)									0	0.0	35	5.4	0	0.0	52	5.4	0	0.0	17	8.4	0	0.0	7	3.1	0	0.0	11	3.9	0	0.0	17	5.4						
										0	0.0	2	1.6	0	0.0	2	1.2	0	0.0	1	2.3	0	0.0	1	2.1	0	0.0	0	0.0	0	0.0	0	0.0						
		GREECE, paediatric, CNS tumours (2010-2014)								19	0.3	94	1.5	31	0.4	111	1.4	6	0.3	33	1.6	6	0.3	33	1.6	7	0.3	28	1.4	12	0.6	17	0.8						
										163	7.9	29	1.4	241	8.6	39	1.4	74	10.3	13	1.8	42	5.9	11	1.6	47	6.7	5	0.7	78	11.1	10	1.4						
			HUNGARY, paediatric (1991-2014)							0	0.0	438	5.6	0	0.0	630	5.5	0	0.0	152	6.1	0	0.0	154	6.0	0	0.0	132	4.4	0	0.0	192	5.4						
										19	0.7	29	1.1	35	0.9	33	0.9	8	0.9	12	1.4	4	0.4	9	1.0	7	0.7	8	0.9	16	1.6	4	0.4						
				IRELAND (1994-2012)						20	2.2	5	0.7	-	-	-	-	4	1.5	3	1.1	8	3.1	2	0.8	8	2.3	0	0.0	-	-	-	-						
										1	0.1	27	2.3	1	0.1	33	2.1	0	0.0	7	1.9	0	0.0	9	2.5	1	0.2	11	2.7	0	0.0	6	1.2						
					ITALY, 2 paediatric registries (1998-2011)					18	0.9	71	3.4	23	0.8	95	3.3	7	1.1	22	3.5	6	0.8	29	4.1	5	0.6	20	2.5	5	0.6	24	2.8						
										16	1.4	17	1.5	-	-	-	-	3	0.8	6	1.7	11	2.9	8	2.1	2	0.5	3	0.7	-	-	-	-						
						ITALY, Piedmont, paediatric (1990-2011)				6	1.0	8	1.1	9	1.0	10	1.0	3	1.4	2	0.9	3	1.3	0	0.0	3	1.2	0	0.0	3	1.0	2	0.7						
										57	1.2	18	0.4	-	-	-	-	15	0.9	3	0.2	22	1.4	9	0.6	20	1.3	6	0.4	-	-	-	-						
							ITALY, 26 registries (1992-2013)																																
										LITHUANIA (2000-2012)																													
								MALTA (1994-2013)																															
											THE NETHERLANDS (1993-2013)																												
									NORWAY (1990-2013)																														
												POLAND (2001-2013)																											
PORTUGAL (1991-2012)																																							
													RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)																										
	RUSSIAN FEDERATION, 2 registries (1998-2015)																																						
														SLOVAKIA (1990-2009)																									

Table 10.7. Unspecified intracranial and intraspinal neoplasms (IIIIF): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	Behaviour	0-14				0-19				0-4				5-9				10-14				15-19			
		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant		Non-malignant		Malignant	
		N	ASR	N	ASR	N	ASR	N	ASR	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
	SPAIN, selected regions, paediatric (2000-2013)	41	1.2	6	0.2	-	-	-	-	11	0.9	1	0.1	17	1.5	1	0.1	13	1.2	4	0.4	-	-	-	-
	SPAIN, Valencia, paediatric (1991-2010)	16	1.1	12	0.9	-	-	-	-	4	1.0	2	0.5	5	1.1	8	1.8	7	1.4	2	0.4	-	-	-	-
	SPAIN, 11 registries (1990-2013)	36	1.1	71	2.3	60	1.2	100	2.3	6	0.6	29	2.9	13	1.2	21	2.0	17	1.5	21	1.8	24	1.8	29	2.2
	SWEDEN (1990-2011)	99	2.9	97	2.8	120	2.6	114	2.5	40	3.4	43	3.7	30	2.6	27	2.3	29	2.4	27	2.3	21	1.7	17	1.4
	SWITZERLAND, paediatric (1990-2013)	15	0.5	4	0.2	-	-	-	-	3	0.3	4	0.4	3	0.3	0	0.0	9	0.9	0	0.0	-	-	-	-
	SWITZERLAND, 7 registries (1990-2013)	10	0.9	12	1.1	14	1.0	14	1.0	4	1.1	2	0.6	2	0.6	8	2.3	4	1.1	2	0.6	4	1.1	2	0.5
	UKRAINE (2002-2012)	0	0.0	478	6.6	0	0.0	651	6.1	0	0.0	182	7.7	0	0.0	156	6.7	0	0.0	140	4.9	0	0.0	173	4.7
	UK (2000-2011)	83	0.6	74	0.6	129	0.7	123	0.7	34	0.8	31	0.7	24	0.6	21	0.5	25	0.5	22	0.5	46	1.0	49	1.1
	UK, England and Wales, paediatric (1991-2010)	279	1.4	60	0.3	-	-	-	-	100	1.5	26	0.4	81	1.2	15	0.2	98	1.5	19	0.3	-	-	-	-
	OCEANIA																								
	AUSTRALIA (1992-2014)	10	0.1	132	1.5	11	0.1	149	1.3	6	0.2	51	1.7	2	0.1	52	1.8	2	0.1	29	1.0	1	0.0	17	0.6
	AUSTRALIA, 3 registries, Indigenous (1992-2014)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	FRANCE, 2 registries (1990-2013)	2	0.6	5	1.7	2	0.5	6	1.6	0	0.0	2	2.0	1	1.0	3	2.9	1	1.0	0	0.0	0	0.0	1	1.0
	NEW ZEALAND (1993-2012)	0	0.0	38	2.2	0	0.0	49	2.1	0	0.0	13	2.2	0	0.0	17	2.9	0	0.0	8	1.4	0	0.0	11	1.9
	NEW ZEALAND, Maori (1993-2012)	0	0.0	8	1.8	0	0.0	9	1.6	0	0.0	2	1.3	0	0.0	5	3.5	0	0.0	1	0.7	0	0.0	1	0.8
	NEW ZEALAND, Pacific peoples (1993-2012)	0	0.0	6	3.9	0	0.0	8	4.0	0	0.0	2	3.6	0	0.0	3	5.8	0	0.0	1	2.7	0	0.0	2	4.5
	NEW ZEALAND, Other (1993-2012)	0	0.0	24	2.1	0	0.0	32	2.1	0	0.0	9	2.4	0	0.0	9	2.3	0	0.0	6	1.5	0	0.0	8	1.9
	NEW ZEALAND, paediatric (2000-2012)	1	0.1	2	0.2	-	-	-	-	1	0.3	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	-	-
	NEW ZEALAND, paediatric, Maori (2000-2012)	0	0.0	0	0.0	-	-	-	-	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	-	-	-	-
	NEW ZEALAND, paediatric, Non-Maori (2000-2012)	1	0.1	2	0.2	-	-	-	-	1	0.4	1	0.4	0	0.0	0	0.0	0	0.0	1	0.3	-	-	-	-

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results

Italic when fewer than 20 cases of unspecified CNS tumour in a dataset

Dataset presented only if eligible (see Chapter 5)

Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets

Please consult registry-specific background information and quality indicators

More datasets available online

Table 10.8. Intracranial and intraspinal germ cell tumours (Xa): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	CNS germinoma (Xa1)						CNS teratoma (Xa2)						Other (Xa3, Xa4, Xa5)						Mixed tumours (Xa6)					
	0-14			15-19			0-14			15-19			0-14			15-19			0-14			15-19		
	Behaviour			Any			Non-malignant			Malignant			Non-malignant			Any			Any			Any		
	N	ASR	Rate	N	ASR	Rate	N	ASR	N	Rate	N	Rate	N	ASR	N	Rate	N	ASR	N	ASR	N	Rate	N	Rate
AFRICA																								
ALGERIA, 5 registries (1998-2014)	2	0.1	0	0	0.0	0	0	0.1	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BOTSWANA (1999-2007)	0	0.0	0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CAMEROON, Yaoundé (2004-2006)	0	0.0	0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
EGYPT, Gharb el Khayma (1999-2010)	2	0.1	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
FRANCE, Réunion (1990-2011)	2	0.4	1	0.7	0	0.0	0	0.4	2	0.0	0	0.0	0	0.0	2	0.4	1	0.7	0	0.0	0	0.0	0	0.0
KENYA, 2 registries (2000-2012)	0	0.0	0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LIBYA, Benghazi (2003-2008)	0	0.0	0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MAI, Bamako (2005-2014)	0	0.0	0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MAURITIUS (2001-2013)	1	0.3	0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0
MOROCCO, 2 registries (2005-2012)	0	0.0	0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SOUTH AFRICA, paediatric (1998-2012)	13	0.1	-	-	0	0.0	2	0.2	1	0.3	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SOUTH AFRICA, paediatric, Asian (1998-2012)	1	0.2	-	-	0	0.0	1	0.3	-	-	-	-	-	-	0	0.0	-	-	0	0.0	-	-	-	-
SOUTH AFRICA, paediatric, Black (1998-2012)	4	0.0	-	-	0	0.0	1	0.0	-	-	-	-	-	-	0	0.0	-	-	1	0.0	-	-	-	-
SOUTH AFRICA, paediatric, Coloured (1998-2012)	1	0.0	-	-	0	0.0	0	0.0	-	-	-	-	-	-	0	0.0	-	-	0	0.0	-	-	-	-
SOUTH AFRICA, paediatric, White (1998-2012)	7	0.5	-	-	0	0.0	0	0.0	-	-	-	-	-	-	0	0.0	-	-	0	0.0	-	-	-	-
TUNISIA, 2 registries (1993-2007)	1	0.1	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
UGANDA, Kyadondo (1996-2013)	0	0.0	0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ZIMBABWE, Harare, African (1995-2013)	0	0.0	0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AMERICA, LATIN AND THE CARIBBEAN																								
ARGENTINA, paediatric (2000-2013)	85	0.5	-	-	0	0.0	3	0.0	-	-	-	-	-	-	3	0.0	-	-	17	0.1	-	-	-	-
ARGENTINA, 6 registries (1991-2013)	18	0.7	1	0.1	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0
BRAZIL, 5 registries (1995-2012)	10	0.5	7	1.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2	0	0.0	0	0.0
CHILE, paediatric (2007-2011)	18	0.9	-	-	0	0.0	4	0.2	-	-	-	-	-	-	2	0.1	-	-	0	0.0	-	-	-	-
CHILE, 4 registries (1998-2012)	1	0.2	2	1.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
COLOMBIA, 4 registries (1992-2013)	3	0.1	4	0.6	0	0.0	2	0.1	0	0.0	1	0.2	0	0.0	1	0.0	0	0.0	3	0.2	0	0.0	0	0.0
COSTA RICA, (1993-2012)	10	0.4	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CUBA (2000-2012)	4	0.1	2	0.2	0	0.0	1	0.0	0	0.0	1	0.1	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ECUADOR, 5 registries (1993-2013)	6	0.3	1	0.1	0	0.0	2	0.1	0	0.0	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
FRANCE, 3 registries (1990-2012)	2	0.6	0	0.0	0	0.0	2	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
HONDURAS, Francisco Morazan (2002-2012)	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0
JAMAICA, Kingston and St Andrew (1982-2012)	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MEXICO, Mexico City, paediatric (1997-2013)	16	1.2	-	-	0	0.0	3	0.3	-	-	-	-	-	-	2	0.1	-	-	3	0.2	-	-	-	-
PERU, Lima (2010-2012)	1	0.1	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
PERU, Trujillo (1990-2002)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
USA, Puerto Rico (1992-2012)	9	0.5	3	0.5	1	0.1	1	0.1	0	0.0	0	0.0	0	0.0	2	0.1	1	0.2	1	0.2	1	0.2	1	0.2
URUGUAY (1993-2012)	6	0.4	3	0.6	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AMERICA, NORTH																								
CANADA, 9 registries (1992-2013)	121	0.9	77	1.8	8	0.1	18	0.2	4	0.1	5	0.1	4	0.1	11	0.1	6	0.1	23	0.2	12	0.3	12	0.3
USA (2004-2012)	553	0.9	390	2.0	231	0.4	96	0.2	64	0.3	9	0.0	64	0.3	45	0.1	14	0.1	89	0.2	34	0.2	34	0.2
USA, API (2004-2012)	58	1.8	36	3.6	9	0.3	6	0.2	2	0.2	0	0.0	2	0.2	7	0.2	3	0.3	8	0.3	2	0.2	2	0.2
USA, Black (2004-2012)	51	0.5	40	1.2	32	0.4	7	0.1	6	0.2	1	0.0	6	0.2	5	0.1	6	0.2	1	0.0	6	0.2	6	0.2
USA, Hispanic White (2004-2012)	120	1.0	70	2.1	37	0.3	16	0.2	14	0.4	2	0.1	12	0.4	12	0.1	2	0.1	18	0.2	5	0.1	5	0.1
USA, Native American (2004-2012)	4	0.4	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
USA, White NH (2004-2012)	309	0.9	240	2.1	136	0.5	61	0.2	41	0.4	6	0.1	41	0.4	19	0.1	3	0.0	61	0.2	20	0.2	20	0.2
USA, NPCR (2004-2012)	529	0.9	371	2.0	231	0.5	89	0.2	64	0.3	9	0.0	64	0.3	45	0.1	13	0.1	84	0.1	32	0.2	32	0.2
USA, SEER 18 (2004-2012)	171	1.0	133	2.4	0	0.0	29	0.2	0	0.0	1	0.0	0	0.0	11	0.1	7	0.1	29	0.2	15	0.3	15	0.3
USA, Hawaii, Hawaiian (2004-2012)	0	0.0	2	8.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ASIA																								
BAHRAIN (1998-2012)	4	1.2	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0
CHINA, 6 registries (1990-2013)	96	1.4	54	1.9	11	0.2	15	0.3	5	0.2	7	0.2	7	0.2	6	0.1	3	0.1	12	0.2	4	0.1	4	0.1
CHINA, Hong Kong (1990-2013)	71	2.3	44	4.2	0	0.0	9	0.4	0	0.0	3	0.3	0	0.0	3	0.1	0	0.0	8	0.3	4	0.4	4	0.4
INDIA, 7 registries (1990-2013)	3	0.0	3	0.0	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	1	0.0	1	0.0	3	0.0	0	0.0	0	0.0
ISLAMIC REPUBLIC OF IRAN, Golestan (2004-2011)	1	0.2	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World Standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of intracranial or intraspinal germ cell tumour in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

Table 10.8. Intracranial and intraspinal germ cell tumours (Xa): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	CNS germinoma (Xa1)						CNS teratoma (Xa2)						Other (Xa3, Xa4, Xa5)						Mixed tumours (Xa6)								
	0-14			15-19			0-14			15-19			0-14			15-19			0-14			15-19					
	Any			Any			Non-malignant			Malignant			Non-malignant			Malignant			Any			Any					
	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate	N	ASR	Rate			
ISRAEL (1990-2012)	15	0.3	10	0.8	2	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	1	0.1	1	0.0	2	0.2			
ISRAEL, Jews (1990-2012)	12	0.4	9	1.0	2	0.1	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0	2	0.2			
ISRAEL, Non-Jews (1990-2012)	3	0.3	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	1	0.3	0	0.0	0	0.0			
JAPAN, 8 registries (1990-2013)	156	2.2	91	3.8	24	0.4	30	0.5	4	0.2	4	0.2	11	0.2	6	0.2	14	0.2	6	0.2	14	0.2	13	0.5			
JORDAN, Jordanians (2000-2012)	8	0.3	4	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	1	0.0	0	0.0			
REPUBLIC OF KOREA (1999-2012)	288	1.9	226	4.7	0	0.0	45	0.3	0	0.0	4.7	0.3	30	0.2	6	0.1	90	0.6	37	0.8	0	0.0	0	0.0			
KUWAIT (1994-2012)	1	0.1	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0			
KUWAIT, Kuwaitis (1994-2012)	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
KUWAIT, Non-Kuwaitis (1994-2012)	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4	0	0.0	0	0.0	0	0.0			
LEBANON (2008-2010)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
PAKISTAN, Karachi (1995-2002)	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
PAKISTAN, Lahore (2008-2012)	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
PHILIPPINES, 2 registries (1993-2012)	27	0.3	14	0.6	0	0.0	4	0.1	0	0.0	1	0.0	2	0.0	0	0.0	1	0.0	1	0.0	1	0.0	1	0.0			
QATAR (2002-2014)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
SAUDI ARABIA, Riyadh (1994-2012)	15	0.4	6	0.7	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	3	0.1	0	0.0			
SAUDI ARABIA, Riyadh, Saudis (1994-2012)	13	0.4	6	0.8	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	3	0.1	0	0.0			
SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
THAILAND, 6 registries (1993-2013)	40	0.9	25	1.5	0	0.0	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	2	0.1	9	0.2	3	0.2			
TURKEY, paediatric (2009-2011)	18	0.3	-	-	0	0.0	2	0.0	-	-	-	-	-	-	-	-	5	0.1	-	-	3	0.0	-	-			
TURKEY, 8 registries (1992-2012)	20	0.4	3	0.2	5	0.1	1	0.0	2	0.1	0	0.0	1	0.0	0	0.0	1	0.0	0	0.0	4	0.1	1	0.1			
VIET NAM, Ho Chi Minh City (1995-2013)	5	0.2	6	0.5	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
EUROPE																											
AUSTRIA (1990-2012)	23	0.7	10	0.9	0	0.0	1	0.0	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0			
BELARUS, paediatric (1990-2014)	16	0.3	7	0.4	0	0.0	7	0.2	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	6	0.1	2	0.1	2	0.1			
BELGIUM (2004-2013)	15	0.7	15	2.4	9	0.5	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	2	0.1	2	0.3			
BULGARIA (1990-2013)	3	0.1	9	0.7	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0			
CROATIA (2001-2014)	4	0.4	1	0.3	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
CYPRUS, South-West (1998-2012)	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.1	0	0.0	0	0.0	0	0.0	0	0.0			
CZECH REPUBLIC (1990-2012)	27	0.6	14	0.8	3	0.1	7	0.2	0	0.0	2	0.1	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
ESTONIA (1990-2012)	2	0.3	1	0.4	0	0.0	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	2	0.9	0	0.0	0	0.0	0	0.0			
FRANCE, paediatric (2000-2012)	118	0.7	-	-	119	0.9	8	0.1	-	-	-	-	50	0.3	-	-	21	0.1	-	-	0	0.0	-	-			
FRANCE, 13 registries (1993-2012)	22	0.6	16	1.4	11	0.4	5	0.2	1	0.1	1	0.1	2	0.1	3	0.3	1	0.0	4	0.4	-	-	-	-			
FRANCE, paediatric (1996-2012)	130	0.5	-	-	28	0.1	12	0.1	-	-	-	-	71	0.3	-	-	26	0.1	-	-	0	0.0	-	-			
GERMANY, 6 Eastern states (2001-2007)	7	0.4	9	1.2	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2	2	0.3	0	0.0	-	-			
GERMANY, 5 Western registries (1994-2012)	37	0.6	34	1.8	1	0.0	0	0.0	0	0.0	1	0.1	4	0.1	0	0.0	8	0.2	0	0.0	0	0.0	0	0.0			
GREECE, paediatric, CNS tumours (2010-2014)	9	1.0	-	-	1	0.1	2	0.3	-	-	-	-	0	0.0	-	-	1	0.1	-	-	0	0.0	-	-			
HUNGARY, paediatric (1991-2014)	17	0.4	-	-	5	0.1	7	0.2	-	-	-	-	1	0.0	-	-	0	0.0	-	-	0	0.0	-	-			
ICELAND (1990-2014)	0	0.0	1	1.8	1	0.6	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
IRELAND (1994-2012)	12	0.6	5	0.8	3	0.2	4	0.2	2	0.3	2	0.3	0	0.0	0	0.0	1	0.1	0	0.0	1	0.1	0	0.0			
ITALY, 2 paediatric registries (1998-2011)	12	1.3	2	0.7	2	0.3	6	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0			
ITALY, Piedmont, paediatric (1990-2011)	12	0.9	-	-	0	0.0	5	0.5	-	-	-	-	0	0.0	-	-	1	0.1	-	-	1	0.1	-	-			
ITALY, 26 registries (1992-2013)	33	0.7	20	1.3	6	0.2	9	0.2	0	0.0	0	0.0	0	0.0	0	0.0	6	0.2	2	0.1	2	0.0	0	0.0			
LITHUANIA (2000-2012)	5	0.6	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
MALTA (1994-2013)	0	0.0	1	1.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
THE NETHERLANDS (1993-2013)	44	0.6	36	1.8	17	0.3	12	0.2	2	0.1	5	0.2	8	0.1	1	0.0	8	0.1	1	0.0	3	0.1	0	0.0			
NORWAY (1990-2013)	17	0.7	13	1.9	1	0.1	2	0.1	1	0.1	1	0.1	1	0.1	2	0.3	7	0.3	0	0.0	0	0.0	0	0.0			
POLAND (2001-2013)	55	0.6	41	1.1	0	0.0	11	0.2	0	0.0	3	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			
PORTUGAL (1991-2012)	31	1.0	18	1.8	0	0.0	8	0.3	1	0.1	1	0.1	1	0.1	0	0.0	2	0.1	1	0.1	1	0.1	1	0.1			
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	5	0.5	-	-	1	0.1	5	0.5	-	-	-	-	1	0.1	-	-	0	0.0	-	-	0	0.0	-	-			
RUSSIAN FEDERATION, 2 registries (1998-2015)	3	0.2	3	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0			
SLOVAKIA (1990-2009)	4	0.2	7	0.8	3	0.2	8	0.4	0	0.0	2	0.2	1	0.0	1	0.1	2	0.1	0	0.0	2	0.1	0	0.0			
SLOVAKIA, paediatric (2000-2012)	10	0.7	-	-	6	0.6	0	0.0	-	-	-	-	1	0.1	-	-	0	0.0	-	-	0	0.0	-	-			
SLOVENIA (1991-2012)	5	0.6	2	0.7	1	0.2	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	1	0.1	0	0.0			
SPAIN, 2 paediatric registries (1991-2013)	41	0.8	-	-	9	0.2	10	0.2	-	-	-	-	5	0.1	-	-	3	0.1	-	-	0	0.0	-	-			

Table 10.8. Intracranial and intraspinal germ cell tumours (Xa): numbers of cases and incidence rates per million by age and behaviour

Age group (years)	CNS germinoma (Xa1)						CNS teratoma (Xa2)						Other (Xa3, Xa4, Xa5)						Mixed tumours (Xa6)					
	0-14			15-19			0-14			15-19			0-14			15-19			0-14			15-19		
	Any			Any			Non-malignant			Malignant			Non-malignant			Malignant			Any			Any		
	N	ASR	Rate	N	ASR	Rate	N	ASR	N	Rate	N	Rate	N	ASR	N	Rate	N	Rate	N	ASR	N	Rate	N	Rate
SPAIN, selected regions, paediatric (2000-2013)	36	1.0	-	-	-	-	7	0.2	9	0.3	-	-	-	-	-	-	3	0.1	-	3	0.1	-	-	-
SPAIN, Valencia, paediatric (1991-2010)	5	0.3	-	-	-	-	2	0.2	1	0.1	-	-	-	-	-	-	2	0.2	-	0	0.0	-	-	-
SPAIN, 11 registries (1990-2013)	18	0.5	14	1.1	7	0.2	7	0.2	9	0.3	1	0.1	1	0.1	2	0.2	3	0.1	2	0.0	1	0.0	0	0.0
SWEDEN (1990-2011)	14	0.4	21	1.7	21	0.7	21	0.7	8	0.2	3	0.2	3	0.2	0	0.0	2	0.1	1	0.0	0	0.0	1	0.1
SWITZERLAND, paediatric (1990-2013)	20	0.6	-	-	-	-	6	0.2	1	0.0	-	-	-	-	-	-	4	0.1	-	2	0.1	-	-	-
SWITZERLAND, 7 registries (1990-2013)	7	0.6	5	1.4	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
UKRAINE (2002-2012)	21	0.2	14	0.4	0	0.0	0	0.0	10	0.1	0	0.0	0	0.0	2	0.1	3	0.0	1	0.0	5	0.1	1	0.0
UK (2000-2011)	137	0.9	78	1.7	3	0.0	13	0.1	4	0.1	3	0.1	4	0.1	1	0.0	5	0.1	8	0.1	8	0.1	8	0.2
UK, England and Wales, paediatric (1991-2010)	191	0.9	-	-	62	0.3	33	0.2	-	-	-	-	-	-	11	0.1	-	-	12	0.1	-	-	-	-
OCEANIA	94	1.0	56	1.9	7	0.1	22	0.3	0	0.0	2	0.1	0	0.0	0	0.0	7	0.1	2	0.1	5	0.1	8	0.3
AUSTRALIA (1992-2014)	1	0.4	0	0.0	0	0.0	1	0.4	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0
FRANCE, 2 registries (1990-2013)	0	0.0	1	1.0	1	0.4	1	0.4	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6	0	0.0
NEW ZEALAND (1993-2012)	25	1.3	11	1.9	0	0.0	3	0.2	0	0.0	3	0.5	2	0.1	0	0.0	2	0.1	0	0.0	7	0.4	2	0.3
NEW ZEALAND, Maori (1993-2012)	6	1.3	4	3.3	0	0.0	1	0.2	0	0.0	2	1.7	1	0.2	0	0.0	1	0.2	0	0.0	1	0.2	1	0.8
NEW ZEALAND, Pacific peoples (1993-2012)	7	4.3	1	2.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	1.8	0	0.0
NEW ZEALAND, Other (1993-2012)	12	0.9	6	1.4	0	0.0	2	0.0	0	0.0	1	0.2	0	0.0	0	0.0	1	0.1	0	0.0	3	0.2	1	0.2
NEW ZEALAND, paediatric (2000-2012)	17	1.3	-	-	2	0.2	0	0.0	0	0.0	-	-	-	-	-	-	0	0.0	-	-	5	0.4	-	-
NEW ZEALAND, paediatric, Maori (2000-2012)	6	2.0	-	-	1	0.3	0	0.0	0	0.0	-	-	-	-	-	-	0	0.0	-	-	1	0.3	-	-
NEW ZEALAND, paediatric, Non-Maori (2000-2012)	11	1.1	-	-	1	0.1	0	0.0	0	0.0	-	-	-	-	-	-	0	0.0	-	-	4	0.4	-	-

API, Asian Pacific Islander; ASR, age-standardized incidence rates (World standard); N, number of cases; NH, Non-Hispanic; NPCR, National Program of Cancer Registries; Rate, age-specific rate; SEER, Surveillance, Epidemiology and End Results
Italic when fewer than 20 cases of intracranial or intraspinal germ cell tumour in a dataset
Dataset presented only if eligible (see Chapter 5)
Non-malignant other than pilocytic astrocytoma collected for only part of the study period in the US datasets
Please consult registry-specific background information and quality indicators

More datasets available online