

### IIIb. Astrocytomas

	0-14				0-19				Age-specific rates per million			
	N	ASR per million			N	ASR per million			0-4	5-9	10-14	15-19
		All	Male	Female		All	Male	Female				
<b>AFRICA</b>												
ALGERIA, 5 registries (1996-2014)	54	3.0	3.5	2.6	79	3.2	3.4	2.9	1.9	4.0	3.4	3.7
ALGERIA, Algiers (2008-2012)	19	5.5	6.9	4.1	28	5.7	6.3	5.1	3.4	7.4	6.2	6.4
ALGERIA, Sétif (1996-2014)	22	2.6	2.5	2.6	27	2.3	2.4	2.3	1.9	2.9	3.0	1.5
ALGERIA, Tlemcen (2006-2014)	5	2.1	1.7	2.5	9	2.7	1.8	3.6	0.0	2.9	3.9	5.0
BOTSWANA (1999-2007)	10	1.6	2.0	1.3	13	1.7	2.0	1.3	0.5	1.6	3.2	1.7
CAMEROON, Yaoundé (2004-2006)	3	1.3	1.7	0.8	4	1.3	1.3	1.3	2.2	1.3	0.0	1.6
EGYPT, Gharbiah (1999-2010)	80	5.2	4.3	6.2	117	5.5	5.1	6.0	4.2	6.5	5.0	6.8
FRANCE, Réunion (1990-2011)	12	2.7	1.8	3.7	18	3.0	2.0	4.1	2.1	4.1	2.0	4.2
KENYA, 2 registries (2000-2012)	15	1.4	1.0	1.9	21	1.5	0.9	2.1	0.5	2.0	2.0	2.0
KENYA, Eldoret (2000-2011)	5	1.2	0.5	2.0	6	1.2	0.4	1.9	1.3	2.2	0.0	0.9
KENYA, Nairobi (2006-2012)	10	1.6	1.3	1.9	15	1.8	1.3	2.3	0.0	1.9	3.5	2.6
LIBYA, Benghazi (2003-2008)	16	5.4	4.2	6.7	20	5.1	5.0	5.2	5.9	5.2	5.1	4.0
MALI, Bamako (2005-2014)	3	0.4	0.8	0.0	5	0.5	1.0	0.0	0.4	0.8	0.0	0.8
MAURITIUS (2001-2013)	12	3.2	2.5	3.9	16	3.1	3.0	3.3	3.4	2.4	3.7	3.0
MOROCCO, 2 registries (2005-2012)	44	4.7	5.1	4.3	58	4.6	5.1	4.2	2.4	6.9	5.5	4.3
MOROCCO, Casablanca (2005-2012)	36	4.3	5.1	3.5	49	4.3	5.0	3.6	1.5	6.2	5.9	4.5
SOUTH AFRICA, paediatric (1998-2012)	335	1.5	1.6	1.5	-	-	-	-	1.5	1.9	1.1	-
SOUTH AFRICA, paediatric, Asian (1998-2012)	10	2.7	2.0	3.4	-	-	-	-	3.2	3.9	0.7	-
SOUTH AFRICA, paediatric, Black (1998-2012)	194	1.1	1.0	1.1	-	-	-	-	1.0	1.4	0.8	-
SOUTH AFRICA, paediatric, Coloured (1998-2012)	72	3.8	4.3	3.3	-	-	-	-	3.3	4.7	3.5	-
SOUTH AFRICA, paediatric, White (1998-2012)	59	5.3	5.5	5.0	-	-	-	-	7.2	5.6	2.3	-
TUNISIA, 2 registries (1993-2007)	114	6.0	6.7	5.2	161	6.1	6.8	5.5	5.0	7.5	5.6	6.7
TUNISIA, Central (1993-2007)	7	2.9	4.0	1.7	11	3.4	4.2	2.5	0.0	4.2	5.3	5.2
TUNISIA, North (1994-2006)	107	6.4	7.1	5.7	150	6.5	7.1	5.9	5.7	7.9	5.6	6.9
UGANDA, Kampala (1996-2013)	6	0.4	0.5	0.4	8	0.4	0.5	0.4	0.0	0.7	0.7	0.4
ZIMBABWE, Harare (1995-2013)	23	2.7	3.7	1.9	29	2.6	3.7	1.6	1.4	3.4	3.8	2.0
<b>AMERICA, LATIN AND THE CARIBBEAN</b>												
ARGENTINA, paediatric (2000-2013)	952	6.6	7.0	6.2	-	-	-	-	7.2	6.6	5.9	-
ARGENTINA, 6 registries (1991-2013)	168	7.6	7.5	7.6	206	7.0	6.7	7.3	6.7	8.9	7.3	5.1
ARGENTINA, Chaco (2002-2012)	28	7.4	5.4	9.5	36	7.2	4.9	9.7	4.3	10.0	8.7	6.6
ARGENTINA, Córdoba (2004-2012)	65	8.6	9.2	7.9	76	7.6	8.0	7.2	7.0	9.3	9.9	4.3
ARGENTINA, Entre Ríos (2001-2011)	28	8.5	8.1	9.0	35	8.0	7.0	9.0	11.6	7.0	6.0	6.2
ARGENTINA, Mendoza (2003-2012)	33	7.2	8.7	5.6	44	7.2	8.2	6.1	4.7	12.1	5.1	7.1
ARGENTINA, Neuquén (2003-2013)	8	4.6	4.8	4.4	8	3.6	3.7	3.4	6.9	1.7	4.8	0.0
BRAZIL, 5 registries (1995-2012)	168	9.1	9.2	9.0	221	8.7	8.9	8.5	9.0	9.6	8.7	7.2
BRAZIL, Aracaju (1996-2012)	22	9.8	12.9	6.5	22	7.6	10.0	5.0	7.0	15.1	7.4	0.0
BRAZIL, Belo Horizonte (2000-2006)	27	6.8	6.7	7.0	35	6.4	6.9	6.0	6.2	7.9	6.5	5.0
BRAZIL, Curitiba (1998-2010)	46	8.8	8.6	8.9	60	8.3	8.2	8.4	9.5	8.5	8.0	6.8
BRAZIL, Goiânia (1995-2011)	64	12.9	11.9	13.9	91	13.0	12.2	13.8	12.1	12.4	14.4	13.6
BRAZIL, João Pessoa (1999-2010)	9	4.8	5.7	3.8	13	4.8	5.0	4.5	7.8	2.9	2.7	5.0
CHILE, paediatric (2007-2011)	99	5.3	5.5	5.0	-	-	-	-	4.9	6.1	4.9	-
CHILE, 4 registries (1998-2012)	33	7.5	5.6	9.3	41	6.8	5.9	7.8	9.9	4.6	7.3	4.7
COLOMBIA, 4 registries (1992-2013)	162	9.3	8.9	9.8	196	8.5	8.3	8.6	9.4	9.6	8.8	5.5
COLOMBIA, Bucaramanga (2000-2012)	26	7.0	6.5	7.5	31	6.3	5.7	6.9	3.6	10.1	8.0	3.9
COLOMBIA, Cali (1992-2013)	125	11.0	10.6	11.4	149	9.9	10.1	9.7	12.0	10.5	10.2	6.0
COSTA RICA (1993-2012)	122	5.1	5.2	5.1	160	5.1	4.9	5.2	5.3	5.2	4.9	4.8
CUBA (2000-2012)	200	7.2	7.6	6.8	241	6.5	6.8	6.1	6.7	6.3	8.9	4.0
ECUADOR, 5 registries (1993-2013)	146	6.7	6.4	7.1	198	6.8	6.7	6.9	6.4	9.0	4.6	7.1
ECUADOR, Cuenca (1996-2013)	11	4.2	5.5	2.9	19	5.3	6.3	4.3	2.4	5.9	4.6	9.1
ECUADOR, Guayaquil (2008-2012)	33	9.8	8.6	11.1	45	10.1	8.0	12.3	9.0	14.3	6.0	11.1
ECUADOR, Manabí (1995-2011)	16	2.4	3.0	1.7	21	2.3	3.4	1.3	1.8	4.0	1.3	2.2
ECUADOR, Quito (1993-2012)	78	9.6	8.6	10.7	101	9.3	9.3	9.4	10.6	10.8	7.0	8.2
FRANCE, 3 registries (1990-2012)	16	5.2	5.3	5.2	19	4.7	5.3	4.0	5.9	6.7	2.8	2.8
HONDURAS, Francisco Morazán (2002-2012)	37	4.7	4.1	5.4	46	4.6	4.0	5.2	1.8	6.3	7.0	4.2
JAMAICA, Kingston and St Andrew (1982-2012)	17	2.8	3.5	2.2	26	3.2	3.6	2.8	2.6	2.1	4.0	4.4
MEXICO, Mexico City, paediatric (1997-2013)	95	8.0	8.2	7.8	-	-	-	-	8.0	8.5	7.3	-
PERU, Lima (2010-2012)	43	6.0	5.2	6.8	55	5.7	5.3	6.1	4.7	7.3	6.4	4.5
PERU, Trujillo (1990-2002)	13	5.2	8.2	2.1	16	4.8	6.4	3.1	1.3	9.1	6.1	3.4
USA, Puerto Rico (1992-2012)	202	11.5	11.8	11.2	253	10.7	11.2	10.2	12.9	12.0	9.1	8.0
URUGUAY (1993-2012)	105	7.0	7.8	6.0	118	6.0	6.7	5.2	7.5	7.9	5.2	2.5
<b>AMERICA, NORTH</b>												
CANADA, 9 registries (1992-2013)	1394	12.1	12.3	11.9	1793	11.5	11.7	11.3	12.6	12.2	11.3	9.5
CANADA, Alberta (1992-2013)	231	16.4	16.8	15.9	294	15.5	16.2	14.8	16.6	19.1	13.0	12.7
CANADA, British Columbia (1992-2013)	207	13.5	11.7	15.5	263	12.6	11.1	14.2	14.5	15.6	9.9	9.5
CANADA, Manitoba (1992-2013)	86	16.6	18.5	14.6	110	15.8	16.7	14.8	20.5	11.9	16.5	13.0
CANADA, Nova Scotia (1992-2013)	43	12.9	13.0	12.8	57	12.3	12.6	11.9	18.4	10.1	8.6	10.2
CANADA, Ontario (1992-2012)	389	8.2	8.2	8.2	497	7.8	8.0	7.6	8.3	7.7	8.7	6.4
CANADA, Quebec (1992-2010)	357	14.4	15.6	13.0	471	13.9	14.9	12.9	14.9	14.3	13.7	12.4
CANADA, Saskatchewan (1992-2013)	76	15.8	16.5	15.2	96	14.9	15.4	14.5	12.2	17.5	18.9	11.8
USA (1998-2012)	14938	16.7	17.1	16.3	18797	15.7	16.2	15.2	18.5	16.4	14.8	12.2
USA, API (1998-2012)	391	8.8	8.7	8.8	498	8.4	8.4	8.3	10.3	7.8	7.9	7.0
USA, Black (1998-2012)	1794	12.2	12.4	12.0	2254	11.5	11.8	11.2	12.8	12.6	10.9	9.0
USA, Hispanic White (1998-2012)	2110	12.6	12.9	12.2	2552	11.7	12.0	11.3	13.9	12.8	10.6	8.6
USA, Native American (1998-2012)	98	6.8	7.4	6.1	125	6.4	6.9	6.0	7.1	6.9	6.2	5.3
USA, NH White (1998-2012)	10065	19.4	19.9	18.9	12795	18.2	18.8	17.6	21.8	18.6	17.1	14.1
USA, NPCR (1998-2012)	14265	16.7	17.1	16.2	17978	15.7	16.2	15.2	18.4	16.4	14.7	12.3
USA, NPCR, API (1998-2012)	349	8.6	8.6	8.6	447	8.2	8.2	8.3	10.7	7.4	7.2	7.0
USA, NPCR, Black (1998-2012)	1766	12.2	12.4	12.0	2219	11.5	11.8	11.2	12.8	12.8	10.8	9.0
USA, NPCR, Hispanic White (1998-2012)	2015	12.5	12.8	12.2	2440	11.6	12.0	11.2	13.7	12.8	10.5	8.6
USA, NPCR, Native American (1998-2012)	93	7.0	7.8	6.2	119	6.7	7.2	6.1	7.3	7.3	6.3	5.6
USA, NPCR, NH White (1998-2012)	9576	19.3	19.9	18.8	12197	18.2	18.8	17.5	21.7	18.5	17.1	14.2
USA, SEER 18 (1993-2012)	4475	15.8	15.8	15.7	5559	14.8	15.0	14.5	17.3	15.5	14.2	11.3
USA, SEER 18, API (1993-2012)	255	9.7	9.2	10.1	327	9.3	9.1	9.5	10.7	9.0	9.1	8.0

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

### IIIB. Astrocytomas

	0-14			0-19			Age-specific rates per million					
	N	ASR per million			N	ASR per million			0-4	5-9	10-14	15-19
		All	Male	Female		All	Male	Female				
USA, SEER 18, Black (1993-2012)	496	12.0	11.7	12.3	613	11.2	11.0	11.3	13.4	11.4	10.8	8.3
USA, SEER 18, Hispanic White (1993-2012)	906	12.4	12.3	12.6	1100	11.6	11.6	11.6	13.5	13.1	10.3	8.6
USA, SEER 18, Native American (1993-2012)	29	5.4	5.0	5.7	40	5.5	5.0	5.9	6.3	4.4	5.2	5.8
USA, SEER 18, NH White (1993-2012)	2701	19.7	20.0	19.3	3370	18.3	18.8	17.8	21.6	19.0	17.9	13.7
USA, SEER 9, Black (1993-2012)	215	12.6	12.8	12.4	258	11.5	11.7	11.3	14.6	10.7	12.0	7.8
USA, SEER 9, White (1993-2012)	1468	18.0	17.9	18.2	1800	16.7	16.9	16.4	19.9	17.3	16.2	12.0
USA, Alabama (1998-2012)	186	13.4	13.7	13.1	237	12.7	13.1	12.3	13.2	13.7	13.3	10.3
USA, Alabama, Black (1998-2012)	39	8.6	9.1	8.2	50	8.2	8.9	7.5	8.5	6.8	10.8	6.7
USA, Alabama, NH White (1998-2012)	138	16.0	16.3	15.6	178	15.3	15.6	14.9	15.6	17.4	14.8	12.9
USA, Alaska (1998-2012)	32	14.5	14.9	14.0	40	13.5	13.2	13.9	18.6	15.8	7.4	10.1
USA, Alaska, NH White (1998-2012)	20	15.5	15.7	15.3	25	14.3	13.9	14.8	20.4	19.8	4.0	10.2
USA, Arizona (1998-2012)	284	15.2	14.2	16.2	363	14.6	13.7	15.6	16.5	15.0	13.6	12.7
USA, Arizona, Hispanic White (1998-2012)	93	13.3	11.5	15.1	108	11.9	10.3	13.5	14.7	13.3	11.3	7.1
USA, Arizona, NH White (1998-2012)	158	18.2	16.5	20.0	215	18.3	16.9	19.7	18.7	19.5	16.2	18.4
USA, Arkansas (1998-2012)	141	16.1	15.2	17.2	171	14.8	13.9	15.6	14.1	16.5	18.4	10.0
USA, Arkansas, Black (1998-2012)	20	11.1	7.5	14.9	28	11.6	9.4	13.8	10.2	13.4	9.8	13.0
USA, Arkansas, NH White (1998-2012)	115	18.8	18.8	18.8	137	16.9	16.6	17.1	15.1	19.3	23.2	10.3
USA, California (1998-2012)	1624	14.2	14.8	13.7	2050	13.5	14.1	12.8	15.7	14.6	11.9	10.8
USA, California, API (1998-2012)	119	8.7	9.6	7.9	164	8.8	9.7	7.8	11.7	7.8	6.0	8.8
USA, California, Black (1998-2012)	101	10.5	9.8	11.3	131	10.1	9.4	11.0	11.9	9.2	10.1	8.9
USA, California, Hispanic White (1998-2012)	621	12.2	12.5	11.9	751	11.3	11.7	10.9	13.6	13.0	9.5	8.1
USA, California, NH White (1998-2012)	765	20.3	21.4	19.2	982	19.2	20.4	17.9	21.6	21.0	18.0	15.4
USA, California, Greater California (2000-2012)	812	14.6	14.9	14.2	1043	13.9	14.3	13.5	16.1	14.8	12.2	11.6
USA, California, Greater California, API (2000-2012)	39	7.6	9.1	6.1	63	8.6	10.3	6.8	11.5	5.1	5.3	11.8
USA, California, Greater California, Black (2000-2012)	42	10.5	7.6	13.5	51	9.6	7.4	11.8	11.7	9.8	9.8	6.4
USA, California, Greater California, Hispanic White (2000-2012)	318	13.1	13.3	12.9	393	12.4	12.5	12.2	14.6	14.3	9.8	9.7
USA, California, Greater California, NH White (2000-2012)	388	18.6	19.7	17.4	505	17.6	18.6	16.5	19.6	19.2	16.5	14.2
USA, California, Los Angeles (1993-2012)	518	12.1	12.3	12.0	653	11.6	12.1	11.1	12.3	12.7	11.3	9.8
USA, California, Los Angeles, API (1993-2012)	39	8.3	7.4	9.3	53	8.3	8.0	8.6	9.2	7.3	8.4	7.9
USA, California, Los Angeles, Black (1993-2012)	47	9.6	9.3	9.9	66	10.2	10.1	10.3	8.6	10.8	9.6	12.1
USA, California, Los Angeles, Hispanic White (1993-2012)	257	10.9	11.0	10.9	307	10.0	10.3	9.7	11.2	11.9	9.6	6.9
USA, California, Los Angeles, NH White (1993-2012)	171	19.0	20.5	17.5	220	18.3	20.4	16.1	19.6	19.0	18.3	15.9
USA, California, San Francisco (1993-2012)	220	14.6	15.9	13.2	267	13.5	14.9	12.0	18.3	14.2	10.1	9.7
USA, California, San Francisco, API (1993-2012)	31	8.9	10.7	7.1	35	7.7	8.3	7.1	10.0	9.6	6.8	3.5
USA, California, San Francisco, Black (1993-2012)	22	12.6	17.2	7.8	26	11.1	15.4	6.7	24.4	2.9	7.4	6.2
USA, California, San Francisco, Hispanic White (1993-2012)	33	9.0	5.9	12.3	46	9.6	8.0	11.3	10.2	10.0	6.3	11.8
USA, California, San Francisco, NH White (1993-2012)	119	19.9	22.3	17.4	142	18.2	21.0	15.2	22.1	22.2	14.4	12.3
USA, California, San Francisco, White (1993-2012)	152	15.8	16.0	15.5	188	14.9	16.1	13.7	17.4	17.6	11.5	12.1
USA, California, San José (1993-2012)	143	14.4	14.1	14.7	168	12.9	12.4	13.4	16.8	15.1	10.2	7.8
USA, California, San José, API (1993-2012)	21	9.3	9.4	9.1	25	8.5	8.6	8.5	10.8	10.7	5.7	6.0
USA, California, San José, Hispanic White (1993-2012)	48	12.7	12.8	12.6	54	11.0	11.4	10.6	13.6	15.4	8.6	5.1
USA, California, San José, NH White (1993-2012)	69	20.5	19.0	22.1	83	18.5	16.6	20.7	26.1	19.4	14.4	11.7
USA, Colorado (1998-2012)	199	13.9	13.1	14.7	251	13.1	13.0	13.2	14.2	16.7	10.3	10.6
USA, Colorado, Hispanic White (1998-2012)	44	12.0	12.3	11.7	55	11.6	11.9	11.2	15.4	12.3	7.1	10.2
USA, Colorado, NH White (1998-2012)	139	15.3	14.5	16.2	177	14.5	14.6	14.3	15.0	18.5	12.2	11.5
USA, Connecticut (1993-2012)	232	17.2	18.6	15.7	281	15.7	16.7	14.7	19.0	17.4	14.6	10.6
USA, Connecticut, Black (1993-2012)	27	13.7	12.1	15.4	36	13.8	13.4	14.1	13.0	7.6	21.4	14.0
USA, Connecticut, Hispanic White (1993-2012)	28	15.7	14.4	17.0	32	13.7	11.2	16.4	14.4	20.3	12.1	6.9
USA, Connecticut, NH White (1993-2012)	166	18.2	20.5	15.7	201	16.6	18.2	14.8	21.6	18.4	13.5	10.9
USA, Connecticut, White (1993-2012)	194	17.7	19.5	15.9	233	16.1	17.1	15.0	20.3	18.7	13.3	10.3
USA, Delaware (1998-2012)	48	19.5	15.4	23.7	63	18.8	16.4	21.4	21.0	18.3	18.7	16.6
USA, Delaware, NH White (1998-2012)	33	22.7	16.8	28.8	42	21.1	16.2	26.3	27.8	16.3	22.8	15.8
USA, District of Columbia (1998-2012)	15	10.7	11.3	10.2	20	10.3	11.2	9.4	6.0	13.6	13.8	8.7
USA, Florida (1998-2012)	803	16.9	17.8	16.0	999	15.7	16.5	14.9	17.7	17.4	15.3	11.5
USA, Florida, Black (1998-2012)	152	13.8	13.3	14.4	185	12.6	12.7	12.6	12.9	17.2	11.2	8.5
USA, Florida, Hispanic White (1998-2012)	172	16.6	18.8	14.4	209	15.2	16.6	13.7	19.1	15.1	15.1	10.1
USA, Florida, NH White (1998-2012)	452	18.4	19.2	17.6	572	17.3	18.1	16.4	19.4	18.4	17.2	13.5
USA, Georgia (1998-2012)	482	16.6	17.0	16.3	598	15.5	16.0	15.1	18.3	15.5	15.7	11.8
USA, Georgia, Black (1998-2012)	134	13.2	12.9	13.6	161	12.0	11.3	12.6	16.8	10.7	11.4	7.5
USA, Georgia, Hispanic White (1998-2012)	24	9.3	9.5	9.1	29	8.9	9.7	7.9	8.2	11.0	8.9	7.4
USA, Georgia, NH White (1998-2012)	301	20.0	21.0	18.8	383	19.0	20.4	17.5	21.6	18.1	19.7	15.8
USA, Georgia, Atlanta (1993-2012)	185	14.2	15.8	12.7	234	13.7	14.4	13.0	15.6	12.6	14.3	12.0
USA, Georgia, Atlanta, Black (1993-2012)	60	10.5	10.6	10.4	76	10.1	9.5	10.8	11.2	8.9	11.4	8.7
USA, Georgia, Atlanta, Hispanic White (1993-2012)	15	11.3	13.1	9.2	18	10.6	12.3	8.7	10.1	9.5	14.8	8.5
USA, Georgia, Atlanta, NH White (1993-2012)	98	19.1	23.1	14.9	126	18.6	21.5	15.5	22.9	15.2	18.3	16.8
USA, Georgia, Atlanta, White (1993-2012)	113	17.3	20.8	13.6	144	16.9	19.5	14.1	19.7	14.0	17.7	15.4
USA, Georgia, Greater Georgia (2000-2012)	286	17.6	17.3	17.8	353	16.3	16.5	16.0	18.2	17.1	17.3	11.8
USA, Georgia, Greater Georgia, Black (2000-2012)	65	13.5	12.9	14.2	77	12.0	12.0	12.0	18.1	10.4	10.9	6.7
USA, Georgia, Greater Georgia, NH White (2000-2012)	200	20.4	20.1	20.8	250	19.1	19.2	19.1	19.7	20.8	21.1	14.7
USA, Hawaii (1993-2012)	66	12.8	14.1	11.5	80	11.9	13.3	10.4	9.3	15.2	14.9	8.5
USA, Hawaii, API (1993-2012)	49	11.8	12.0	11.7	59	10.9	11.7	10.2	6.1	14.0	17.2	7.7
USA, Hawaii, Hawaiian (1993-2012)	27	16.0	18.7	13.2	32	14.6	17.1	12.1	7.1	20.6	22.6	10.0
USA, Idaho (1998-2012)	96	19.6	17.1	22.3	122	18.7	17.4	20.0	21.3	20.2	16.8	15.3
USA, Idaho, NH White (1998-2012)	86	21.6	18.6	24.7	110	20.5	19.1	22.0	22.2	22.6	19.6	16.8
USA, Illinois (1998-2012)	578	14.8	13.9	15.7	750	14.3	13.5	15.1	15.7	15.1	13.2	12.6
USA, Illinois, API (1998-2012)	10	5.7	4.5	7.0	11	4.9	3.5	6.3	1.6	7.2	9.6	1.8
USA, Illinois, Black (1998-2012)	84	11.4	12.4	10.3	103	10.5	11.0	9.9	11.8	14.0	7.9	7.3
USA, Illinois, Hispanic White (1998-2012)	77	10.2	10.6	9.7	94	9.6	10.5	8.6	10.1	11.1	9.1	7.7
USA, Illinois, NH White (1998-2012)	390	17.6	15.8	19.6	521	17.3	15.8	18.9	19.6	16.9	15.8	16.0
USA, Indiana (1998-2012)	328	17.0	16.9	17.1	423	16.3	15.9	16.7	20.9	14.9	14.2	13.7
USA, Indiana, Black (1998-2012)	24	10.0	14.7	5.1	31	9.7	13.1	6.3	13.2	8.4	7.3	9.0
USA, Indiana, NH White (1998-2012)	287	19.0	18.0	20.1	369	18.0	16.9	19.2	23.0	17.4	15.4	14.5
USA, Iowa (1993-2012)	248	21.3	17.9	24.9	297	19.0	17.0	21.2	25.9	19.4	17.3	11.1
USA, Iowa, NH White (1993-2012)	221	21.7	17.8	26.0	267	19.5	17.1	22.0	26.6	19.6	17.7	11.6
USA, Iowa, White (1993-2012)	235	21.8	18.4	25.4	282	19.5	17.5	21.5	27.0	19.6	17.4	11.4

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

### IIb. Astrocytomas

	0-14			0-19			Age-specific rates per million					
	N	ASR per million			N	ASR per million			0-4	5-9	10-14	15-19
		All	Male	Female		All	Male	Female				
USA, Kentucky (1998-2012)	262	21.0	19.7	22.3	317	19.1	17.6	20.7	23.2	16.8	22.8	12.6
USA, Kentucky, NH White (1998-2012)	230	21.7	20.2	23.3	275	19.5	17.8	21.3	24.0	16.4	24.5	12.0
USA, Louisiana (1998-2012)	208	14.9	15.3	14.4	268	14.2	14.5	13.8	16.6	16.6	10.6	11.7
USA, Louisiana, Black (1998-2012)	65	11.4	11.5	11.4	85	11.1	12.0	10.1	11.2	13.3	9.7	9.8
USA, Louisiana, NH White (1998-2012)	132	17.5	18.0	17.1	169	16.5	16.6	16.5	20.6	19.6	11.1	13.1
USA, Maine (1998-2012)	80	24.1	26.3	21.8	107	23.1	26.4	19.6	33.3	18.0	18.5	19.8
USA, Maine, NH White (1998-2012)	73	23.4	26.8	19.8	99	22.7	26.9	18.2	31.9	16.5	19.6	20.2
USA, Maryland (1998-2012)	229	13.6	13.4	13.7	302	13.3	13.3	13.3	13.2	14.2	13.2	12.6
USA, Maryland, Black (1998-2012)	59	10.2	10.5	10.0	80	10.3	10.6	10.0	10.1	13.0	7.3	10.5
USA, Maryland, NH White (1998-2012)	143	15.9	15.2	16.7	192	15.8	15.4	16.3	15.6	13.9	18.6	15.6
USA, Massachusetts (1998-2012)	351	19.9	20.7	19.1	435	18.2	19.1	17.3	22.9	19.8	16.0	12.5
USA, Massachusetts, Black (1998-2012)	17	9.2	9.8	8.6	25	9.8	10.2	9.4	11.2	6.7	9.4	12.0
USA, Massachusetts, Hispanic White (1998-2012)	27	14.8	11.5	18.2	34	14.0	10.3	17.8	17.1	14.7	11.7	11.3
USA, Massachusetts, NH White (1998-2012)	280	21.7	23.1	20.3	348	19.9	21.5	18.3	24.9	21.9	17.3	13.6
USA, Michigan (1998-2012)	525	17.4	17.4	17.4	648	16.0	16.3	15.6	19.9	14.7	17.0	11.2
USA, Michigan, Black (1998-2012)	85	14.7	14.5	14.8	99	13.0	12.9	13.1	15.0	15.3	13.7	7.2
USA, Michigan, Hispanic White (1998-2012)	23	14.0	13.2	14.9	27	12.7	12.9	12.5	19.8	10.7	10.0	8.3
USA, Michigan, NH White (1998-2012)	395	18.2	18.2	18.3	496	16.9	17.2	16.5	21.4	14.6	18.1	12.3
USA, Michigan, Detroit (1993-2012)	261	15.4	15.6	15.2	317	14.3	14.5	14.0	15.7	14.3	16.1	10.3
USA, Michigan, Detroit, Black (1993-2012)	76	14.6	14.1	15.1	89	13.1	12.8	13.3	15.8	14.4	13.2	7.7
USA, Michigan, Detroit, NH White (1993-2012)	166	16.0	16.9	15.0	205	15.0	15.7	14.3	15.9	13.9	18.4	11.6
USA, Michigan, Detroit, White (1993-2012)	175	15.9	16.6	15.1	215	14.9	15.5	14.2	16.5	13.9	17.4	11.3
USA, Minnesota (1998-2012)	280	17.7	17.8	17.6	376	17.5	18.2	16.9	18.5	16.2	18.3	17.0
USA, Minnesota, NH White (1998-2012)	213	17.1	17.0	17.1	289	16.9	17.3	16.4	17.9	15.0	18.2	16.3
USA, Mississippi (2002-2012)	119	17.5	17.8	17.1	143	15.7	16.9	14.6	19.3	16.5	16.1	9.8
USA, Mississippi, Black (2002-2012)	51	16.5	18.1	14.9	61	14.8	16.9	12.7	16.9	14.9	17.8	9.0
USA, Mississippi, NH White (2002-2012)	65	18.8	19.1	18.6	78	16.9	17.9	15.9	21.5	18.3	15.8	10.4
USA, Missouri (1996-2012)	356	18.2	18.5	17.9	456	17.3	17.4	17.2	21.7	16.2	15.9	14.1
USA, Missouri, Black (1996-2012)	42	13.6	17.1	10.0	47	11.6	15.3	7.7	11.9	20.2	8.4	4.7
USA, Missouri, NH White (1996-2012)	270	17.7	17.9	17.5	355	17.1	16.8	17.4	21.8	14.5	15.9	15.0
USA, Montana (1998-2012)	43	15.5	19.9	10.7	59	15.4	18.8	11.8	15.0	13.3	18.4	15.2
USA, Montana, NH White (1998-2012)	38	16.4	20.4	12.2	53	16.5	19.2	13.6	15.6	15.9	18.1	16.6
USA, Nebraska (1998-2012)	116	20.9	25.6	16.0	145	19.5	23.4	15.4	24.1	18.4	19.5	14.5
USA, Nebraska, NH White (1998-2012)	96	22.5	28.0	16.7	122	21.0	26.0	15.7	26.4	20.2	19.7	15.8
USA, Nevada (1998-2012)	85	11.3	11.0	11.5	116	11.7	11.5	11.9	10.2	11.8	12.1	13.3
USA, Nevada, Hispanic White (1998-2012)	32	13.1	12.7	13.5	38	12.2	12.4	11.9	11.4	13.6	14.8	9.0
USA, Nevada, NH White (1998-2012)	42	11.8	11.9	11.6	61	12.7	12.9	12.6	11.2	12.8	11.4	16.1
USA, New Hampshire (1998-2012)	79	22.3	26.4	18.0	99	20.5	24.6	16.3	26.3	23.6	15.5	14.4
USA, New Hampshire, NH White (1998-2012)	77	23.8	28.2	19.3	96	21.8	25.9	17.5	28.3	25.7	15.8	14.7
USA, New Jersey (1998-2012)	472	18.6	18.8	18.3	595	17.6	18.1	17.1	21.5	17.2	16.1	14.4
USA, New Jersey, API (1998-2012)	22	10.6	11.3	10.0	25	9.4	9.5	9.3	17.2	4.2	9.1	5.0
USA, New Jersey, Black (1998-2012)	61	13.2	13.5	12.9	74	12.1	11.8	12.3	12.2	17.0	10.4	8.1
USA, New Jersey, Hispanic White (1998-2012)	48	11.3	8.8	13.9	67	11.8	10.2	13.5	14.2	10.0	8.8	13.6
USA, New Jersey, NH White (1998-2012)	320	22.3	23.7	20.9	404	21.2	22.9	19.3	26.7	19.0	20.2	17.1
USA, New Mexico (1993-2012)	97	11.8	12.2	11.3	122	11.1	11.9	10.2	14.2	9.8	10.7	8.6
USA, New Mexico, Hispanic White (1993-2012)	50	12.1	11.0	13.2	59	10.8	10.1	11.5	13.0	11.0	12.1	6.4
USA, New Mexico, NH White (1993-2012)	37	14.5	16.1	12.8	49	13.9	16.4	11.3	20.3	10.3	11.4	12.1
USA, New Mexico, White (1993-2012)	87	13.0	12.9	13.0	108	12.0	12.6	11.4	15.7	10.7	11.8	8.8
USA, New York State (1998-2012)	1010	18.3	19.1	17.4	1282	17.2	18.2	16.2	18.7	19.2	16.7	13.6
USA, New York State, API (1998-2012)	29	7.6	8.2	7.1	35	6.9	7.6	6.2	6.8	9.0	7.2	4.4
USA, New York State, Black (1998-2012)	177	14.6	15.4	13.7	215	13.3	14.0	12.5	15.0	13.2	15.6	8.8
USA, New York State, Hispanic White (1998-2012)	126	14.1	14.4	13.8	147	12.5	12.5	12.6	13.4	15.5	13.6	7.0
USA, New York State, NH White (1998-2012)	629	21.1	22.0	20.2	826	20.4	21.6	19.0	22.5	22.3	18.0	17.8
USA, New York State, White (1998-2012)	755	19.5	20.2	18.7	973	18.6	19.5	17.6	20.2	20.8	17.1	15.5
USA, North Carolina (1998-2012)	476	18.1	18.9	17.2	583	16.7	17.5	15.8	19.4	18.1	16.3	11.8
USA, North Carolina, Black (1998-2012)	82	11.8	12.6	11.0	107	11.4	12.6	10.2	12.9	13.2	8.9	9.9
USA, North Carolina, Hispanic White (1998-2012)	25	10.1	11.7	8.4	32	10.4	12.3	8.2	15.5	3.9	9.8	11.5
USA, North Carolina, NH White (1998-2012)	357	22.6	22.9	22.2	429	20.4	20.5	20.3	23.7	22.8	20.8	12.9
USA, North Dakota (1998-2012)	26	14.1	16.9	11.2	35	13.6	15.9	11.1	19.5	6.6	15.4	11.7
USA, North Dakota, NH White (1998-2012)	24	15.5	18.5	12.2	31	14.3	17.6	10.9	21.6	7.7	15.9	10.3
USA, Ohio (1998-2012)	601	17.8	18.6	16.9	746	16.4	17.4	15.4	21.4	16.3	14.5	11.8
USA, Ohio, Black (1998-2012)	65	11.2	10.7	11.7	83	10.8	11.1	10.6	10.0	12.5	11.3	9.5
USA, Ohio, NH White (1998-2012)	490	18.7	19.9	17.4	611	17.2	18.4	16.0	22.8	17.0	15.1	12.3
USA, Oklahoma (1998-2012)	149	13.4	13.8	13.0	194	12.9	13.4	12.4	13.1	15.7	11.1	11.3
USA, Oklahoma, Native American (1998-2012)	17	10.8	8.6	13.1	23	11.0	9.3	12.8	8.0	13.7	11.5	11.7
USA, Oklahoma, NH White (1998-2012)	100	14.3	14.9	13.7	132	13.8	14.5	13.0	15.6	15.8	10.9	12.1
USA, Oregon (1998-2012)	188	17.9	16.8	19.2	243	17.2	16.2	18.2	19.3	16.9	17.3	14.6
USA, Oregon, Hispanic White (1998-2012)	17	10.0	8.0	12.1	19	8.8	7.2	10.5	9.4	7.1	14.2	4.4
USA, Oregon, NH White (1998-2012)	151	19.7	19.6	19.8	201	19.1	19.3	19.0	20.8	19.6	18.4	17.2
USA, Pennsylvania (1998-2012)	733	21.7	23.3	20.0	901	19.7	21.0	18.3	27.6	18.5	17.4	12.7
USA, Pennsylvania, Black (1998-2012)	75	14.3	13.9	14.7	96	13.6	13.3	13.9	16.8	13.7	11.8	11.1
USA, Pennsylvania, Hispanic White (1998-2012)	26	12.9	15.2	10.4	34	12.7	15.1	10.2	15.2	10.4	12.4	12.3
USA, Pennsylvania, NH White (1998-2012)	586	23.0	25.1	20.8	712	20.6	22.3	18.9	29.5	19.5	18.3	12.2
USA, Rhode Island (1998-2012)	60	20.8	20.2	21.3	70	18.0	16.8	19.2	20.8	24.5	16.5	8.5
USA, Rhode Island, NH White (1998-2012)	50	25.3	26.6	23.9	58	21.7	21.6	21.6	29.3	28.8	16.1	9.2
USA, South Carolina (1998-2012)	190	14.9	14.5	15.3	245	14.2	13.8	14.5	16.3	15.4	12.4	11.7
USA, South Carolina, Black (1998-2012)	53	11.5	13.4	9.5	72	11.4	13.0	9.8	8.9	16.6	9.3	11.2
USA, South Carolina, NH White (1998-2012)	129	17.7	16.1	19.4	164	16.6	15.4	17.9	22.3	15.7	13.9	12.8
USA, South Dakota (2001-2012)	32	16.2	20.1	12.0	42	15.7	18.7	12.5	16.5	15.5	16.5	13.9
USA, South Dakota, NH White (2001-2012)	28	18.1	24.5	11.4	38	17.9	22.7	12.8	17.9	17.9	18.9	17.0
USA, Tennessee (1999-2012)	273	16.5	17.0	15.9	348	15.7	16.0	15.3	18.7	15.7	14.2	12.9
USA, Tennessee, Black (1999-2012)	50	13.6	12.5	14.7	58	11.9	11.1	12.8	13.3	15.6	11.7	6.3
USA, Tennessee, NH White (1999-2012)	214	18.3	19.7	16.9	276	17.5	18.3	16.7	21.7	16.8	15.3	14.7
USA, Texas (1998-2012)	1320	16.8	17.3	16.2	1639	15.7	16.2	15.2	18.2	17.7	13.8	12.1
USA, Texas, API (1998-2012)	20	7.0	6.0	8.0	28	7.5	7.2	7.8	7.8	7.3	5.6	9.1

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

### IIIb. Astrocytomas

	0-14			0-19			Age-specific rates per million					
	N	ASR per million			N	ASR per million			0-4	5-9	10-14	15-19
		All	Male	Female		All	Male	Female				
USA, Texas, Black (1998-2012)	141	13.3	13.3	13.2	181	12.7	13.0	12.5	15.1	12.3	11.9	10.9
USA, Texas, Hispanic White (1998-2012)	450	13.1	14.1	12.1	547	12.3	13.1	11.3	14.6	13.8	10.4	9.2
USA, Texas, NH White (1998-2012)	664	22.0	22.1	22.0	829	20.5	20.4	20.5	23.9	23.4	18.0	15.0
USA, Utah (1993-2012)	242	19.0	16.7	21.5	288	17.2	16.1	18.4	19.5	17.3	20.3	10.8
USA, Utah, Hispanic White (1993-2012)	25	16.6	18.1	15.0	30	15.5	16.1	15.0	20.7	10.1	18.4	11.8
USA, Utah, NH White (1993-2012)	210	20.2	17.6	22.9	249	18.1	16.9	19.4	20.3	19.1	21.2	10.9
USA, Utah, White (1993-2012)	235	19.7	17.7	22.0	279	17.8	16.8	18.8	20.4	18.0	20.9	11.0
USA, Vermont (1998-2012)	12	7.1	10.7	3.3	21	8.4	10.1	6.5	6.1	9.0	6.4	12.7
USA, Vermont, NH White (1998-2012)	11	6.9	11.3	2.3	20	8.4	10.7	5.9	6.5	7.6	6.7	13.5
USA, Virginia (1998-2012)	321	14.6	16.4	12.8	406	13.8	15.1	12.4	17.3	13.5	12.3	10.8
USA, Virginia, Black (1998-2012)	54	10.4	11.7	9.1	73	10.2	11.3	9.1	13.9	7.9	8.5	9.7
USA, Virginia, Hispanic White (1998-2012)	22	12.9	14.9	10.8	23	10.4	12.4	8.4	14.8	20.3	2.1	2.0
USA, Virginia, NH White (1998-2012)	215	15.7	17.5	13.9	274	14.9	16.1	13.6	18.5	14.1	13.8	11.8
USA, Washington State (1998-2012)	358	19.0	17.8	20.3	462	18.3	17.6	18.9	21.1	18.1	17.2	15.6
USA, Washington State, Hispanic White (1998-2012)	34	12.6	10.8	14.5	41	11.9	10.7	13.1	12.0	12.3	13.8	9.3
USA, Washington State, NH White (1998-2012)	262	20.3	20.1	20.5	349	19.8	20.1	19.5	22.8	18.9	18.5	18.0
USA, Washington, Seattle (1993-2012)	315	19.3	18.7	19.9	391	18.0	17.8	18.2	20.4	20.3	16.7	13.7
USA, Washington, Seattle, API (1993-2012)	23	14.1	10.0	18.4	27	12.5	9.3	15.8	17.7	11.2	12.7	6.9
USA, Washington, Seattle, Hispanic White (1993-2012)	28	19.6	17.7	21.5	32	17.5	14.8	20.3	16.3	19.1	24.5	10.2
USA, Washington, Seattle, NH White (1993-2012)	234	20.1	19.7	20.6	300	19.2	19.4	19.1	21.0	21.5	17.4	16.2
USA, Washington, Seattle, White (1993-2012)	262	20.0	19.3	20.7	332	19.0	18.8	19.3	20.4	21.2	18.1	15.7
USA, West Virginia (1998-2012)	98	20.0	21.8	18.1	114	17.5	18.6	16.3	18.1	20.1	22.4	8.8
USA, West Virginia, NH White (1998-2012)	93	20.4	23.0	17.7	106	17.5	19.4	15.6	18.9	20.2	22.7	7.6
USA, Wisconsin (1998-2012)	275	16.9	17.5	16.2	347	15.7	16.8	14.6	19.3	15.6	15.0	11.8
USA, Wisconsin, NH White (1998-2012)	215	17.1	18.2	16.0	278	16.1	17.4	14.7	20.4	15.2	14.9	12.6
USA, Wyoming (1998-2012)	21	13.5	13.6	13.5	26	12.4	13.5	11.2	15.3	15.4	9.1	8.4
<b>ASIA</b>												
BAHRAIN (1998-2012)	17	5.2	6.6	3.7	22	5.2	6.1	4.4	1.8	5.7	9.1	5.4
CHINA, 6 registries (1990-2013)	381	6.6	6.7	6.5	551	6.5	6.9	6.1	6.0	6.8	7.3	6.0
CHINA, Beijing (2000-2013)	91	5.4	4.8	6.0	139	5.2	5.1	5.4	5.8	4.2	6.2	4.6
CHINA, Dalian (2003-2012)	13	5.7	7.1	4.1	18	5.4	6.7	4.0	1.6	6.2	10.4	4.5
CHINA, Guangzhou (2010-2012)	20	5.7	3.9	7.8	34	6.3	4.9	8.0	6.4	2.0	9.0	8.5
CHINA, Hong Kong (1990-2013)	219	8.7	9.7	7.6	301	8.5	9.8	7.1	8.0	10.0	8.1	7.9
CHINA, Shanghai (2002-2012)	25	4.3	3.2	5.4	39	4.2	3.2	5.2	2.9	5.4	5.0	3.8
CHINA, Zhongshan (2003-2012)	13	3.0	3.0	3.1	20	3.8	4.7	2.8	1.0	2.5	6.4	6.3
INDIA, 7 registries (1990-2013)	716	4.1	4.8	3.2	980	4.1	4.8	3.3	3.3	4.3	4.8	4.2
INDIA, Bangalore (1993-2011)	130	4.2	4.4	3.9	173	4.1	4.4	3.8	2.9	5.1	4.9	3.9
INDIA, Chennai (1993-2013)	106	4.9	5.7	4.1	142	4.8	5.5	4.0	4.9	5.3	4.5	4.3
INDIA, Kollam (2006-2012)	17	4.0	6.5	1.4	21	3.7	5.7	1.7	1.5	7.4	3.3	2.9
INDIA, Mumbai (1993-2012)	314	4.9	6.1	3.5	408	4.6	5.7	3.4	4.0	4.8	6.0	3.8
INDIA, Nagpur (1990-2012)	58	4.2	4.1	4.2	89	4.7	4.7	4.7	3.5	4.3	4.9	6.5
INDIA, New Delhi (2003-2010)	82	2.1	2.4	1.7	136	2.6	3.1	1.9	1.7	1.9	2.8	4.2
INDIA, Trivandrum (2005-2012)	9	3.9	6.0	1.6	11	3.6	5.3	1.9	2.8	1.6	7.8	2.8
IRAN, Golestan (2004-2011)	16	3.9	4.8	3.0	26	4.4	5.3	3.4	0.9	3.7	8.2	5.9
ISRAEL (1990-2012)	479	11.5	11.9	11.0	602	11.2	11.4	10.9	10.0	11.2	13.7	10.1
ISRAEL, Jews (1990-2012)	379	12.4	13.0	11.8	471	11.9	12.4	11.3	10.3	12.9	14.7	9.9
ISRAEL, Non-Jews (1990-2012)	100	8.9	8.8	8.9	131	9.2	8.6	9.9	9.2	6.8	10.7	10.5
JAPAN, 8 registries (1990-2013)	417	6.8	6.5	7.1	541	6.4	6.5	6.3	6.0	7.2	7.3	5.1
JAPAN, Aichi (2008-2012)	36	6.6	4.9	8.5	46	6.4	5.0	7.8	4.6	9.6	6.0	5.5
JAPAN, Hiroshima (1990-2012)	37	8.4	9.4	7.4	46	7.8	8.9	6.6	2.3	12.6	12.0	5.5
JAPAN, Miyagi (1990-2010)	64	7.9	8.3	7.6	85	7.6	8.0	7.2	5.2	8.7	10.7	6.4
JAPAN, Nagasaki (1993-2012)	23	5.2	4.2	6.4	36	5.7	5.4	5.9	7.2	3.9	4.0	7.1
JAPAN, Niigata (2003-2012)	26	7.6	9.9	5.3	30	6.7	8.4	4.9	5.2	5.7	13.0	3.4
JAPAN, Osaka (1990-2012)	190	6.5	6.3	6.8	246	6.1	6.3	5.9	6.8	6.7	6.0	4.6
JAPAN, Tochigi (2005-2012)	13	6.4	7.7	5.1	19	6.7	7.6	5.8	11.6	1.4	5.2	7.7
JAPAN, Yamagata (1990-2013)	28	5.9	3.6	8.4	33	5.3	3.6	7.1	3.1	7.5	8.0	3.1
JORDAN (2000-2012)	243	8.8	10.7	6.8	331	9.3	11.0	7.5	7.1	9.2	10.7	11.0
REPUBLIC OF KOREA (1999-2012)	453	3.5	3.5	3.4	653	3.6	3.6	3.6	3.1	3.3	4.2	4.1
REPUBLIC OF KOREA, Busan (1999-2012)	26	3.1	4.1	2.0	37	3.0	3.7	2.3	2.7	3.2	3.4	2.9
REPUBLIC OF KOREA, Daegu (1999-2012)	25	3.9	4.6	3.0	34	3.8	3.9	3.6	3.4	5.4	2.8	3.4
REPUBLIC OF KOREA, Daejeon (1999-2012)	14	3.5	3.0	4.2	22	3.9	3.7	4.1	3.4	5.0	2.0	5.2
REPUBLIC OF KOREA, Gwangju (1997-2012)	30	6.3	5.5	7.2	41	6.3	6.2	6.4	6.5	6.7	5.7	6.1
REPUBLIC OF KOREA, Incheon (1998-2012)	51	6.5	6.4	6.5	71	6.6	6.1	7.0	7.1	3.7	8.7	6.9
REPUBLIC OF KOREA, Jeju (2000-2012)	5	3.8	6.3	1.2	7	3.9	5.7	1.8	6.9	1.9	1.9	4.0
REPUBLIC OF KOREA, Seoul (1995-2012)	114	3.4	2.8	4.0	171	3.6	3.1	4.1	2.8	2.7	4.9	4.3
REPUBLIC OF KOREA, Ulsan (2001-2012)	6	2.2	3.0	1.2	11	2.8	3.6	1.9	2.7	0.0	3.8	5.0
KUWAIT (1994-2012)	52	4.3	4.8	3.8	74	4.9	5.1	4.7	5.6	3.2	3.8	6.8
KUWAIT, Kuwaitis (1994-2012)	35	5.0	5.2	4.7	50	5.6	5.5	5.8	7.2	2.9	4.2	8.0
KUWAIT, Non-Kuwaitis (1994-2012)	17	3.4	4.3	2.5	24	3.8	4.5	3.0	3.3	3.6	3.4	5.1
LEBANON (2008-2010)	26	7.5	10.8	4.1	32	6.9	9.4	4.3	9.5	7.2	5.3	4.8
PAKISTAN, Karachi (1995-2002)	39	6.5	6.4	6.6	56	7.7	8.2	7.2	0.5	8.6	12.2	11.8
PAKISTAN, Lahore (2008-2012)	52	2.7	3.2	2.2	82	3.4	3.8	2.9	2.2	3.3	2.9	5.6
PHILIPPINES, 2 registries (1993-2012)	191	2.5	2.7	2.4	258	2.6	2.8	2.4	2.0	2.7	3.0	2.8
PHILIPPINES, Manila (1993-2012)	98	2.8	3.2	2.3	139	3.0	3.5	2.5	2.1	3.4	3.0	3.6
PHILIPPINES, Rizal (1993-2012)	93	2.3	2.2	2.4	119	2.2	2.2	2.3	1.8	2.2	3.0	2.1
QATAR (2002-2014)	16	5.4	4.6	6.4	20	5.3	5.0	5.6	5.4	5.0	5.8	5.0
SAUDI ARABIA, Riyadh (1994-2012)	105	3.1	3.5	2.7	139	3.3	3.8	2.7	2.9	2.8	3.7	3.9
SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	19	3.3	3.0	3.6	22	3.1	3.4	2.8	0.9	4.1	5.6	2.5
SAUDI ARABIA, Riyadh, Saudis (1994-2012)	86	3.1	3.6	2.5	117	3.3	3.9	2.7	3.3	2.5	3.4	4.1
THAILAND, 6 registries (1993-2013)	194	4.8	5.3	4.3	265	4.7	5.3	4.2	4.4	5.0	5.3	4.4
THAILAND, Bangkok (2001-2012)	89	6.7	7.7	5.6	117	6.2	7.3	5.1	6.3	6.1	7.9	4.6
THAILAND, Chiang Mai (1993-2012)	39	6.6	8.7	4.3	53	6.4	8.4	4.3	4.0	10.4	5.7	6.0
THAILAND, Chonburi (1998-2012)	15	3.9	4.1	3.6	22	4.2	4.6	3.9	3.2	3.2	5.5	5.4
THAILAND, Khon Kaen (1993-2012)	20	2.5	3.1	1.9	24	2.3	2.4	2.1	2.2	1.6	4.1	1.4
THAILAND, Lampang (1993-2013)	7	2.7	1.5	3.9	13	3.2	3.1	3.4	4.7	1.0	1.8	5.1

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

### IIIb. Astrocytomas

	0-14				0-19				Age-specific rates per million			
	N	ASR per million			N	ASR per million			0-4	5-9	10-14	15-19
		All	Male	Female		All	Male	Female				
THAILAND, Songkhla (1994-2013)	24	3.8	2.5	5.2	36	4.1	3.1	5.1	4.0	4.6	2.7	5.1
TURKEY, paediatric (2009-2011)	239	4.3	4.2	4.4	-	-	-	-	4.4	4.6	3.7	-
TURKEY, 8 registries (1992-2012)	361	9.1	8.4	9.7	481	8.9	8.7	9.1	8.2	10.4	8.8	8.4
TURKEY, Ankara (2008-2012)	40	7.6	5.5	9.8	49	7.0	5.2	8.8	8.1	6.9	7.6	5.0
TURKEY, Antalya (1998-2012)	57	9.1	8.9	9.3	76	9.1	8.2	10.1	7.0	10.3	10.5	9.2
TURKEY, Bursa (2004-2012)	32	6.4	5.7	7.2	41	6.1	6.1	6.1	7.2	7.7	4.0	5.1
TURKEY, Erzurum (2006-2012)	9	5.6	4.7	6.6	12	5.6	6.1	5.1	5.8	8.9	1.7	5.6
TURKEY, İzmir (1992-2012)	178	11.0	11.3	10.8	238	10.8	11.6	9.9	9.2	13.8	10.3	9.9
TURKEY, Samsun (2003-2012)	20	6.2	5.1	7.3	34	7.6	7.9	7.3	4.4	6.8	8.0	12.3
TURKEY, Trabzon (2003-2012)	13	8.1	5.2	11.2	18	8.0	6.0	10.0	10.4	7.0	6.3	7.4
VIET NAM, Ho Chi Minh City (1995-2013)	101	4.1	4.5	3.7	134	3.9	4.1	3.6	3.8	3.8	4.9	2.9
<b>EUROPE</b>												
AUSTRIA (1990-2012)	453	14.9	14.1	15.7	566	13.8	13.6	14.0	16.2	14.5	13.6	10.1
BELARUS, paediatric (1990-2014)	532	11.9	12.1	11.7	663	10.9	11.0	10.8	11.4	12.8	11.8	7.3
BELGIUM (2004-2013)	364	20.1	19.5	20.7	463	19.1	18.8	19.3	21.1	20.4	18.3	15.5
BULGARIA (1990-2013)	184	5.9	5.9	5.8	284	6.3	6.6	6.1	4.3	7.2	6.4	7.9
CROATIA (2001-2014)	111	11.9	12.1	11.6	143	11.2	11.0	11.5	11.9	11.3	12.4	9.0
CYPRUS, South-West (1998-2012)	15	7.2	8.1	6.1	20	6.8	7.8	5.8	10.3	4.1	6.2	5.6
CZECH REPUBLIC (1990-2012)	557	14.2	14.8	13.6	719	13.2	14.0	12.4	14.9	14.4	13.0	9.7
ESTONIA (1990-2012)	98	16.6	17.3	15.8	126	15.7	16.0	15.4	15.2	16.0	19.1	12.6
FRANCE, paediatric (2000-2012)	1988	13.8	14.0	13.6	-	-	-	-	16.7	13.2	10.6	-
FRANCE, 13 registries (1993-2012)	386	12.4	13.3	11.5	466	11.3	12.1	10.3	13.4	11.9	11.8	7.2
FRANCE, Bas-Rhin (1993-2011)	58	15.7	17.3	14.1	69	14.1	15.4	12.6	16.3	16.9	13.6	8.3
FRANCE, Calvados (1990-2012)	34	11.9	11.1	12.9	42	10.9	10.2	11.6	14.8	10.2	10.0	7.3
FRANCE, Doubs (1993-2012)	16	8.1	9.6	6.5	22	8.1	9.9	6.3	7.7	7.7	9.0	8.3
FRANCE, Gironde (2008-2012)	18	14.2	13.0	15.4	21	12.5	13.0	12.0	14.5	14.1	14.0	6.5
FRANCE, Haut-Rhin (1993-2012)	38	13.2	12.8	13.7	47	12.5	12.3	12.7	9.9	12.9	18.0	10.0
FRANCE, Hérault (1993-2012)	60	18.4	21.8	14.9	67	15.5	18.3	12.6	24.9	9.9	19.2	5.6
FRANCE, Isère (1993-2012)	60	13.1	15.6	10.5	71	11.7	13.5	9.9	12.1	12.5	15.1	7.1
FRANCE, Loire-Atlantique and Vendée (1998-2012)	58	11.4	11.1	11.8	70	10.4	10.1	10.7	12.8	13.9	6.9	6.8
FRANCE, Manche (1994-2012)	12	6.7	7.4	6.0	16	6.8	8.7	4.6	3.6	12.0	4.9	6.9
FRANCE, Somme (1993-2012)	12	5.8	7.7	3.9	17	5.9	8.2	3.6	7.2	7.0	2.7	6.3
GERMANY, paediatric (1996-2012)	3367	16.7	17.0	16.4	-	-	-	-	17.7	17.6	14.4	-
GERMANY, 6 Eastern registries (2001-2007)	89	6.7	6.5	6.9	136	6.6	6.5	6.7	5.7	9.0	5.5	6.2
GERMANY, 5 Western registries (1994-2012)	645	13.0	12.4	13.6	858	12.6	12.2	13.1	13.3	11.8	13.9	11.4
GERMANY, Bavaria (2002-2012)	263	12.7	12.1	13.4	363	12.8	12.5	13.1	11.5	12.0	15.1	13.1
GERMANY, Lower Saxony (2003-2012)	94	8.2	7.2	9.3	136	8.5	7.5	9.4	10.3	7.0	6.8	9.2
GERMANY, Rhine-Pfalz (1998-2012)	166	18.3	16.6	20.1	202	16.5	15.3	17.9	20.2	15.0	19.5	10.5
GERMANY, Saarland (1994-2012)	51	18.1	21.2	15.0	63	16.6	18.1	15.1	17.0	19.2	18.6	11.3
GERMANY, Schleswig-Holstein (2000-2012)	71	13.0	13.3	12.6	94	12.6	13.6	11.6	13.4	11.9	13.5	11.6
GREECE, paediatric specialized (2010-2014)	82	10.3	10.7	10.0	-	-	-	-	12.0	11.5	6.7	-
HUNGARY, paediatric (1991-2014)	614	15.3	15.8	14.8	-	-	-	-	15.6	15.7	14.6	-
ICELAND (1990-2014)	34	21.1	17.2	25.3	46	21.3	21.3	21.3	25.2	20.3	16.6	21.9
IRELAND (1994-2012)	307	18.6	18.4	18.8	413	18.4	19.8	16.9	20.3	17.2	17.8	17.9
ITALY, 2 paediatric registries (1998-2011)	162	19.4	19.1	19.6	197	17.7	18.3	17.1	20.7	19.3	17.5	12.2
ITALY, Marche, paediatric (1998-2007)	39	20.1	19.9	20.2	46	17.8	18.6	16.9	17.5	22.0	21.3	10.0
ITALY, Piedmont, paediatric (1990-2011)	216	18.3	20.7	15.9	-	-	-	-	18.0	18.4	18.7	-
ITALY, Piedmont, paediatric (2000-2011)	123	19.1	18.8	19.4	151	17.7	18.2	17.2	21.7	18.5	16.4	12.9
ITALY, 26 registries (1992-2013)	530	13.0	12.9	13.1	665	12.1	12.1	12.1	13.7	14.3	10.7	9.0
ITALY, Brescia (1999-2012)	9	4.0	1.8	6.2	11	3.7	1.4	6.2	1.3	8.2	2.9	2.8
ITALY, Catania (2003-2013)	39	12.1	12.3	12.0	46	10.6	10.5	10.7	9.8	18.9	7.7	5.4
ITALY, Friuli-Venezia Giulia (1995-2010)	30	13.4	15.8	10.9	38	12.7	15.0	10.2	15.7	9.3	14.8	10.2
ITALY, Milan (1999-2007)	14	11.0	10.7	11.4	18	10.8	9.3	12.3	12.7	14.4	5.1	9.9
ITALY, Modena (1990-2012)	29	15.6	13.7	17.7	34	13.7	11.9	15.7	17.0	19.4	9.6	7.2
ITALY, Naples (1996-2012)	49	21.3	18.1	24.7	54	17.8	16.1	19.6	25.1	22.8	14.7	5.8
ITALY, Parma (1992-2013)	24	22.1	13.7	31.0	26	18.3	12.9	24.0	16.2	28.3	22.9	5.3
ITALY, Ragusa (1992-2012)	20	15.2	17.0	13.3	24	13.5	14.9	12.1	18.9	9.1	17.0	7.8
ITALY, Reggio Emilia (1996-2012)	18	15.8	22.3	8.9	23	15.4	18.5	12.1	19.4	18.2	8.4	13.9
ITALY, Romagna (1990-2012)	43	15.3	12.5	18.2	54	14.1	12.5	15.8	18.6	14.8	11.3	10.1
ITALY, Salerno (1997-2009)	19	7.8	7.5	8.0	27	8.0	7.3	8.7	5.5	9.0	9.4	8.7
ITALY, Sassari (1992-2011)	7	5.4	4.8	6.0	12	6.2	6.0	6.3	5.0	7.0	4.1	8.8
ITALY, Turin (1992-2012)	11	5.1	5.4	4.9	17	5.7	6.3	5.0	5.3	7.0	2.8	7.5
ITALY, Umbria (1994-2011)	18	9.8	12.3	7.1	29	11.1	14.5	7.4	12.8	8.1	7.7	15.3
ITALY, Varese (1992-2012)	40	17.3	18.8	15.6	51	16.2	17.6	14.7	19.1	19.3	12.6	12.4
ITALY, Veneto (1992-2009)	91	15.1	14.4	15.9	116	14.3	14.0	14.6	15.3	12.7	17.6	11.3
LITHUANIA (2000-2012)	52	7.6	6.8	8.4	81	7.9	7.7	8.2	9.4	6.1	6.7	9.1
MALTA (1994-2013)	23	15.9	14.0	17.8	27	13.9	12.4	15.5	18.3	8.4	21.0	7.1
THE NETHERLANDS (1993-2013)	785	12.8	12.2	13.5	1012	12.5	12.2	12.7	12.6	13.9	11.8	11.2
NORWAY (1990-2013)	354	16.9	17.7	16.2	457	16.4	16.8	16.1	20.2	14.9	14.9	14.7
POLAND (2001-2013)	566	7.1	7.3	6.9	848	7.3	7.6	6.9	7.4	7.3	6.5	7.9
POLAND, Greater Poland (1999-2013)	72	8.2	7.5	8.9	117	9.0	9.0	8.9	6.9	12.2	5.5	11.6
POLAND, Kielce (1990-2013)	43	7.9	7.1	8.8	61	7.9	7.6	8.2	7.0	10.1	6.8	7.9
POLAND, Lower Silesia (2000-2013)	34	5.3	4.6	6.1	65	6.7	6.3	7.1	3.7	5.7	7.1	11.2
POLAND, Lublin (1999-2013)	49	9.0	9.7	8.3	59	7.9	8.5	7.2	8.5	12.2	6.1	4.0
PORTUGAL (1991-2012)	407	15.3	16.4	14.1	516	14.2	15.2	13.2	17.0	15.1	13.1	10.6
PORTUGAL, Centre (2000-2010)	45	11.9	12.7	11.1	53	10.4	11.0	9.8	14.7	10.7	9.4	5.3
PORTUGAL, North (1991-2010)	144	12.5	13.9	11.1	185	11.7	12.8	10.7	12.3	12.5	12.9	9.0
PORTUGAL, South (1998-2012)	208	19.3	20.2	18.4	264	18.2	19.5	16.8	22.5	19.9	14.3	14.3
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	117	13.5	11.8	15.3	-	-	-	-	13.1	15.0	12.3	-
RUSSIAN FEDERATION, 2 registries (1998-2015)	107	9.7	9.9	9.5	133	8.7	8.9	8.4	13.1	7.5	7.6	5.1
RUSSIAN FEDERATION, Chelyabinsk (2008-2012)	20	7.4	8.7	6.1	22	6.2	7.5	4.7	7.0	3.5	12.3	1.8
RUSSIAN FEDERATION, Samara (1998-2015)	87	10.7	10.6	10.7	111	9.6	9.6	9.6	15.4	8.8	6.4	6.0
SLOVAKIA (1990-2009)	281	13.2	13.4	12.9	393	13.1	13.6	12.6	13.5	12.9	13.1	12.8
SLOVAKIA, paediatric (2000-2012)	169	14.3	14.2	14.3	-	-	-	-	13.5	15.1	14.4	-
SLOVENIA (1991-2012)	82	11.4	12.8	10.0	107	10.8	13.2	8.2	9.7	12.2	12.8	8.7

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

### IIIb. Astrocytomas

	0-14			0-19			Age-specific rates per million					
	N	ASR per million			N	ASR per million			0-4	5-9	10-14	15-19
		All	Male	Female		All	Male	Female				
SPAIN, 2 paediatric registries (1991-2013)	648	13.6	13.8	13.4	-	-	-	-	15.1	13.6	11.7	-
SPAIN, Selected regions, paediatric (2000-2013)	426	12.4	12.4	12.4	-	-	-	-	13.6	12.7	10.4	-
SPAIN, Valencia, paediatric (1991-2010)	222	16.8	17.7	15.8	-	-	-	-	19.3	15.7	14.6	-
SPAIN, 11 registries (1990-2013)	420	13.3	12.6	14.0	580	13.0	12.6	13.5	14.2	13.1	12.2	12.2
SPAIN, Asturias (1992-2010)	25	10.9	6.8	15.1	34	10.2	7.6	12.9	10.4	12.2	10.0	7.9
SPAIN, Balearic Islands (1990-2012)	38	14.2	14.5	13.8	52	14.1	14.7	13.5	13.6	12.7	16.6	14.0
SPAIN, Basque Country (1990-2012)	92	14.2	14.7	13.6	125	13.6	14.3	12.8	15.4	13.7	13.0	11.7
SPAIN, Canary Islands (1993-2011)	62	13.0	13.6	12.4	88	13.0	13.9	12.2	13.6	12.3	13.1	13.0
SPAIN, Girona (1990-2013)	42	18.1	12.2	24.4	55	17.5	12.5	22.6	19.1	17.3	17.8	15.1
SPAIN, Granada (1992-2013)	33	9.6	7.1	12.3	50	10.4	7.5	13.5	5.7	13.7	10.3	13.1
SPAIN, Murcia (1991-2009)	52	12.5	13.7	11.3	66	11.6	12.4	10.7	14.6	12.3	10.0	8.3
SPAIN, Navarra (1990-2010)	26	15.6	16.1	15.1	32	14.0	15.0	13.0	19.7	16.0	9.8	8.5
SPAIN, Tarragona (1990-2011)	25	11.5	7.5	15.4	40	12.8	10.5	15.0	12.2	13.9	7.8	17.2
SWEDEN (1990-2011)	557	15.8	16.0	15.7	703	15.0	14.7	15.2	16.0	15.5	15.9	11.9
SWITZERLAND, paediatric (1990-2013)	389	13.4	13.2	13.5	-	-	-	-	12.7	15.1	12.4	-
SWITZERLAND, 7 registries (1990-2013)	152	14.1	15.4	12.6	198	13.7	14.7	12.7	11.6	14.7	16.6	12.6
SWITZERLAND, Geneva (1993-2013)	19	13.6	8.0	19.5	22	11.9	7.1	17.0	20.4	12.2	6.2	6.1
SWITZERLAND, Vaud (1993-2012)	25	11.3	14.6	7.8	37	12.3	14.8	9.7	11.0	13.4	9.4	15.9
SWITZERLAND, Zurich (1993-2013)	61	14.5	18.0	10.8	82	14.7	17.2	12.1	7.9	17.2	20.2	15.4
UKRAINE (2002-2012)	596	7.8	8.1	7.5	877	7.8	8.0	7.5	7.4	7.7	8.5	7.7
UK (2000-2011)	1980	15.1	14.8	15.4	2416	13.8	13.9	13.7	15.7	15.9	13.4	9.4
UK, England (1990-2013)	3138	14.2	13.9	14.5	3853	13.1	13.2	13.1	14.8	15.0	12.5	9.6
UK, England and Wales, paediatric (1991-2010)	3012	15.4	15.0	15.9	-	-	-	-	16.0	16.1	13.9	-
UK, Northern Ireland (1993-2013)	92	11.5	10.3	12.6	119	11.2	11.0	11.3	6.4	16.4	12.7	10.1
UK, Scotland (1991-2013)	319	15.3	14.1	16.6	395	14.2	13.0	15.5	15.0	16.1	14.9	10.3
UK, Wales (2000-2011)	96	14.9	12.6	17.2	117	13.5	11.5	15.7	12.0	18.2	14.9	8.9
<b>OCEANIA</b>												
AUSTRALIA (1992-2014)	723	8.3	8.3	8.4	963	8.3	8.3	8.2	9.2	8.5	7.0	8.0
AUSTRALIA, Indigenous (1992-2014)	14	5.9	6.5	5.2	17	5.6	6.4	4.8	5.8	10.0	1.4	4.7
AUSTRALIA, Australian Capital Territory (1992-2012)	10	7.0	6.8	7.2	12	6.3	7.0	5.6	6.5	4.4	10.7	3.8
AUSTRALIA, New South Wales (1992-2012)	208	7.7	8.2	7.2	279	7.7	8.4	7.0	10.7	6.4	5.3	7.6
AUSTRALIA, Queensland (1992-2013)	101	5.8	6.6	5.0	142	6.1	6.5	5.6	5.7	6.7	4.9	7.0
AUSTRALIA, South Australia (1992-2012)	69	11.1	8.8	13.6	94	11.2	9.4	13.1	8.6	15.6	9.5	11.6
AUSTRALIA, Tasmania (1992-2013)	42	19.0	13.6	24.6	58	19.5	16.4	22.8	18.3	19.1	19.7	21.4
AUSTRALIA, Victoria (1992-2014)	136	6.2	5.7	6.7	191	6.4	6.0	6.8	7.4	5.8	5.1	7.2
AUSTRALIA, Western Australia (1992-2014)	149	15.5	15.4	15.7	174	13.7	13.4	14.1	14.0	18.2	14.5	7.6
FRANCE, 2 registries (1990-2013)	20	6.5	5.1	8.1	24	6.0	4.4	7.7	5.0	10.7	3.9	4.1
FRANCE, New Caledonia (1990-2013)	16	10.8	9.3	12.5	19	9.8	8.1	11.6	8.5	16.1	8.2	6.3
NEW ZEALAND (1993-2012)	154	8.9	6.9	11.0	194	8.4	7.0	9.9	10.9	6.8	8.5	6.8
NEW ZEALAND, API (1993-2012)	11	7.1	6.4	8.0	16	8.1	5.9	10.3	7.2	7.8	6.3	11.3
NEW ZEALAND, Maori (1993-2012)	32	7.4	3.7	11.4	39	7.1	4.7	9.6	9.5	4.9	7.5	5.8
NEW ZEALAND, Other (1993-2012)	111	9.7	8.1	11.3	139	9.0	8.0	10.1	12.0	7.4	9.1	6.7
NEW ZEALAND, paediatric (2000-2012)	161	14.0	11.5	16.6	-	-	-	-	14.1	15.8	11.9	-
NEW ZEALAND, paediatric, Maori (2000-2012)	27	9.4	6.9	12.1	-	-	-	-	8.8	11.8	7.7	-
NEW ZEALAND, paediatric, Non-Maori (2000-2012)	134	15.5	13.0	18.1	-	-	-	-	16.0	17.1	13.1	-

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