

## Villa. Osteosarcomas

	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)	65	3.4	3.9	2.7	134	4.9	6.0	3.7	0.9	2.7	7.4	10.1
ALGERIA, Algiers (2008-2012)	18	5.1	4.7	5.4	36	6.8	7.8	5.8	2.5	4.7	8.9	12.8
ALGERIA, Sétif (1996-2014)	26	2.6	3.2	2.1	51	3.8	4.8	2.8	0.4	1.5	6.9	7.7
ALGERIA, Tiemcen (2006-2014)	6	2.5	2.2	2.9	16	4.8	4.5	5.1	0.0	4.3	3.9	12.5
BOTSWANA (1999-2007)	11	1.7	1.9	1.6	24	3.0	3.7	2.3	0.0	1.1	4.9	7.3
CAMEROON, Yaoundé (2004-2006)	2	0.8	0.8	0.8	7	2.5	3.7	1.4	0.0	1.3	1.5	8.2
EGYPT, Gharbiah (1999-2010)	45	2.5	1.7	3.4	97	4.1	4.1	4.1	0.0	2.2	6.3	9.5
FRANCE, Réunion (1990-2011)	15	3.0	3.6	2.4	22	3.4	4.6	2.2	0.0	2.0	8.1	4.9
KENYA, 2 registries (2000-2012)	38	3.7	4.1	3.3	94	7.1	9.1	5.4	0.5	1.7	10.2	19.0
KENYA, Eldoret (2000-2011)	13	3.1	3.8	2.4	34	6.9	8.1	5.6	0.0	1.5	9.0	19.8
KENYA, Nairobi (2006-2012)	25	4.1	4.3	3.8	60	7.3	9.7	5.5	0.7	1.9	10.9	18.5
LIBYA, Benghazi (2003-2008)	5	1.5	1.2	1.9	6	1.4	0.9	1.9	0.0	1.0	4.1	1.0
MALI, Bamako (2005-2014)	16	2.2	2.0	2.4	29	2.9	3.4	2.4	0.7	1.7	4.8	5.1
MAURITIUS (2001-2013)	12	2.7	4.9	0.5	15	2.6	4.5	0.7	0.0	3.1	6.0	2.3
MOROCCO, 2 registries (2005-2012)	32	3.2	3.5	2.9	84	6.1	7.6	4.6	1.0	2.1	7.5	16.0
MOROCCO, Casablanca (2005-2012)	29	3.3	4.0	2.6	76	6.2	8.1	4.3	0.8	1.9	8.1	16.4
SOUTH AFRICA, paediatric (1998-2012)	290	1.2	1.3	1.1	-	-	-	-	0.1	1.0	2.9	-
SOUTH AFRICA, paediatric, Asian (1998-2012)	8	1.8	0.9	2.7	-	-	-	-	0.0	2.3	3.6	-
SOUTH AFRICA, paediatric, Black (1998-2012)	214	1.1	1.2	1.0	-	-	-	-	0.0	0.8	2.7	-
SOUTH AFRICA, paediatric, Coloured (1998-2012)	34	1.6	1.6	1.6	-	-	-	-	0.2	1.6	3.6	-
SOUTH AFRICA, paediatric, White (1998-2012)	34	2.5	2.6	2.3	-	-	-	-	0.5	2.5	5.0	-
TUNISIA, 2 registries (1993-2007)	60	2.7	2.5	2.9	107	3.6	3.6	3.5	0.0	2.1	6.9	6.7
TUNISIA, Central (1993-2007)	10	4.0	3.2	4.7	10	3.1	2.5	3.7	0.0	2.8	10.5	0.0
TUNISIA, North (1994-2006)	50	2.5	2.4	2.6	97	3.7	3.8	3.5	0.0	2.0	6.4	7.6
UGANDA, Kampala (1996-2013)	37	2.6	2.6	2.6	73	3.8	4.3	3.5	0.0	2.3	6.4	8.0
ZIMBABWE, Harare (1995-2013)	28	3.4	3.0	3.7	49	4.2	4.0	4.4	0.8	1.5	8.9	7.1
<b>AMERICA, LATIN AND THE CARIBBEAN</b>												
ARGENTINA, paediatric (2000-2013)	517	3.2	3.3	3.1	-	-	-	-	0.3	2.8	7.6	-
ARGENTINA, 6 registries (1991-2013)	87	3.4	3.8	3.0	144	4.4	5.2	3.5	0.0	1.9	9.7	7.7
ARGENTINA, Chaco (2002-2012)	15	3.5	3.7	3.4	26	4.8	5.4	4.1	0.0	1.7	10.3	9.1
ARGENTINA, Córdoba (2004-2012)	25	2.9	2.3	3.6	45	4.0	4.6	3.5	0.0	1.2	8.7	7.8
ARGENTINA, Entre Rios (2001-2011)	10	2.5	3.0	2.1	13	2.6	3.1	2.0	0.0	1.7	6.8	2.7
ARGENTINA, Mendoza (2003-2012)	26	5.0	6.4	3.5	44	6.5	7.6	5.4	0.0	4.0	12.8	11.6
ARGENTINA, Neuquén (2003-2013)	7	3.3	5.5	1.0	12	4.5	7.3	1.5	0.0	0.0	11.3	8.7
BRAZIL, 5 registries (1995-2012)	78	3.7	3.8	3.5	159	5.3	6.7	4.0	0.3	2.8	9.0	11.0
BRAZIL, Aracaju (1996-2012)	7	2.6	2.9	2.3	17	4.6	4.9	4.2	0.0	1.4	7.4	11.3
BRAZIL, Belo Horizonte (2000-2006)	20	4.3	3.8	4.8	36	5.6	6.9	4.3	0.0	1.6	13.1	10.0
BRAZIL, Curitiba (1998-2010)	19	3.3	4.5	2.1	39	4.7	6.6	2.9	0.6	5.6	4.3	9.7
BRAZIL, Goiânia (1995-2011)	24	4.2	3.4	5.0	51	6.3	7.3	5.4	0.6	1.9	11.5	13.6
BRAZIL, João Pessoa (1999-2010)	8	3.2	3.9	2.5	16	4.7	7.0	2.5	0.0	1.5	9.5	9.9
CHILE, paediatric (2007-2011)	74	3.5	2.9	4.0	-	-	-	-	0.5	3.3	7.6	-
CHILE, 4 registries (1998-2012)	9	1.8	2.3	1.2	26	3.6	4.7	2.5	0.7	1.3	3.6	10.0
COLOMBIA, 4 registries (1992-2013)	67	3.3	3.8	2.9	126	4.7	5.6	3.9	0.2	2.6	8.3	9.5
COLOMBIA, Bucaramanga (2000-2012)	10	2.3	2.3	2.4	14	2.5	3.2	1.8	0.0	0.0	8.0	3.1
COLOMBIA, Cali (1992-2013)	52	4.0	4.6	3.3	101	5.8	7.0	4.7	0.3	3.7	9.2	12.3
COSTA RICA (1993-2012)	65	2.4	2.1	2.7	136	3.9	4.2	3.5	0.1	2.0	5.9	8.9
CUBA (2000-2012)	95	2.9	3.0	2.9	172	3.9	4.1	3.8	0.1	2.0	7.7	7.4
ECUADOR, 5 registries (1993-2013)	106	4.3	4.9	3.7	172	5.3	6.2	4.5	0.0	3.5	10.8	9.0
ECUADOR, Cuenca (1996-2013)	9	3.1	4.0	2.1	16	4.2	5.2	3.2	0.0	1.2	9.3	7.9
ECUADOR, Guayaquil (2008-2012)	16	4.2	4.2	4.2	24	4.9	5.4	4.5	0.0	4.5	9.5	7.4
ECUADOR, Manabí (1995-2011)	20	2.6	2.8	2.4	34	3.4	4.2	2.7	0.0	2.2	6.6	6.2
ECUADOR, Quito (1993-2012)	55	6.0	7.0	5.0	87	7.2	8.2	6.3	0.0	5.4	14.7	11.4
FRANCE, 3 registries (1990-2012)	12	3.4	4.1	2.7	17	3.7	5.3	2.1	1.0	1.9	8.3	4.7
HONDURAS, Francisco Morazán (2002-2012)	19	2.4	2.0	2.8	37	3.7	4.1	3.4	0.0	1.6	6.5	8.3
JAMAICA, Kingston and St Andrew (1982-2012)	15	2.3	1.2	3.3	36	4.1	4.2	4.1	0.0	2.1	5.5	10.4
MEXICO, Mexico City, paediatric (1997-2013)	58	4.5	4.2	4.8	-	-	-	-	1.6	4.1	8.8	-
PERU, Lima (2010-2012)	33	4.2	5.2	3.2	52	4.9	6.1	3.7	0.0	3.8	10.2	7.2
PERU, Trujillo (1990-2002)	11	4.3	4.1	4.5	17	4.9	6.4	3.5	0.0	7.8	6.1	6.9
USA, Puerto Rico (1992-2012)	69	3.3	3.1	3.6	110	4.0	4.5	3.6	0.2	2.8	8.1	6.4
URUGUAY (1993-2012)	63	3.7	3.7	3.6	96	4.3	4.9	3.6	0.2	3.7	8.3	6.4
<b>AMERICA, NORTH</b>												
CANADA, 9 registries (1992-2013)	415	3.2	3.1	3.2	732	4.1	4.4	3.8	0.4	2.8	7.3	7.5
CANADA, Alberta (1992-2013)	57	3.6	3.0	4.3	104	4.9	4.9	4.9	0.4	3.6	7.9	9.5
CANADA, British Columbia (1992-2013)	74	4.1	4.6	3.6	118	4.9	5.3	4.4	0.6	3.1	9.9	7.5
CANADA, Manitoba (1992-2013)	11	1.8	2.0	1.7	35	4.4	4.6	4.1	0.0	2.3	3.9	13.0
CANADA, Nova Scotia (1992-2013)	9	2.3	3.1	1.5	14	2.6	3.7	1.5	0.9	2.5	3.9	3.7
CANADA, Ontario (1992-2012)	154	2.9	2.9	2.9	274	3.8	4.1	3.5	0.5	2.2	6.9	7.1
CANADA, Quebec (1992-2010)	89	3.1	3.0	3.2	155	4.0	4.5	3.6	0.3	3.3	6.8	7.2
CANADA, Saskatchewan (1992-2013)	19	3.6	2.5	4.6	29	4.1	3.3	5.0	0.0	3.9	7.9	5.9
USA (1998-2012)	3449	3.4	3.3	3.5	6105	4.5	4.9	4.1	0.3	3.0	8.0	8.4
USA, API (1998-2012)	142	2.9	2.7	3.1	246	3.8	3.9	3.7	0.2	2.9	6.5	6.8
USA, Black (1998-2012)	636	3.8	3.6	4.0	1102	5.0	5.4	4.5	0.3	3.5	8.7	9.1
USA, Hispanic White (1998-2012)	678	3.8	3.8	3.8	1118	4.9	5.3	4.4	0.3	3.2	9.1	8.5
USA, Native American (1998-2012)	35	2.1	2.4	1.8	62	2.8	3.0	2.7	0.0	2.3	4.8	5.3
USA, NH White (1998-2012)	1883	3.1	3.0	3.2	3450	4.2	4.7	3.8	0.3	2.6	7.4	8.1
USA, NPCR (1998-2012)	3303	3.4	3.3	3.5	5851	4.5	4.9	4.1	0.3	2.9	8.0	8.4
USA, NPCR, API (1998-2012)	128	2.9	2.6	3.1	222	3.7	3.7	3.7	0.2	2.8	6.5	6.7
USA, NPCR, Black (1998-2012)	629	3.8	3.6	4.0	1089	5.0	5.4	4.6	0.3	3.5	8.8	9.1
USA, NPCR, Hispanic White (1998-2012)	657	3.8	3.8	3.9	1083	4.9	5.3	4.4	0.3	3.2	9.2	8.6
USA, NPCR, Native American (1998-2012)	32	2.1	2.3	2.0	58	2.9	2.9	2.9	0.0	2.5	4.6	5.6
USA, NPCR, NH White (1998-2012)	1782	3.1	3.0	3.2	3272	4.2	4.6	3.8	0.3	2.6	7.3	8.1
USA, SEER 18 (1993-2012)	1130	3.5	3.4	3.6	1937	4.6	5.1	4.1	0.4	3.1	8.3	8.4
USA, SEER 18, API (1993-2012)	98	3.4	3.2	3.5	163	4.2	4.6	3.8	0.1	3.8	7.2	7.2

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

## VIIA. Osteosarcomas

	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)	176	3.8	3.8	3.7	315	5.1	5.9	4.4	0.4	4.0	7.9	9.9
USA, SEER 18, Hispanic White (1993-2012)	317	4.0	3.9	4.2	514	5.1	5.4	4.8	0.4	3.2	9.9	8.7
USA, SEER 18, Native American (1993-2012)	13	2.0	2.4	1.6	17	2.0	2.6	1.5	0.0	1.1	5.8	2.1
USA, SEER 18, NH White (1993-2012)	517	3.3	3.1	3.4	915	4.4	4.9	3.8	0.4	2.6	7.8	8.1
USA, SEER 9, Black (1993-2012)	65	3.3	3.5	3.2	118	4.8	5.4	4.0	0.2	3.2	7.7	9.6
USA, SEER 9, White (1993-2012)	296	3.2	3.2	3.3	525	4.4	5.0	3.7	0.4	2.5	7.8	8.3
USA, Alabama (1998-2012)	35	2.1	1.7	2.6	70	3.2	3.3	3.1	0.0	0.9	6.4	7.0
USA, Alabama, Black (1998-2012)	18	3.4	2.6	4.2	32	4.6	4.2	4.9	0.0	1.4	10.2	8.5
USA, Alabama, NH White (1998-2012)	12	1.2	1.1	1.2	32	2.4	3.0	1.7	0.0	0.3	3.6	6.4
USA, Alaska (1998-2012)	8	3.0	2.8	3.2	15	4.3	4.9	3.7	0.0	2.6	7.4	8.9
USA, Alaska, NH White (1998-2012)	4	2.6	1.1	4.1	9	4.3	3.5	5.2	0.0	4.4	4.0	10.2
USA, Arizona (1998-2012)	61	3.0	2.9	3.0	107	4.0	3.9	4.1	0.5	2.6	6.7	7.4
USA, Arizona, Hispanic White (1998-2012)	19	2.5	1.3	3.8	32	3.4	2.3	4.5	0.0	3.0	5.4	6.2
USA, Arizona, NH White (1998-2012)	29	3.0	3.6	2.3	53	4.0	4.5	3.6	0.7	2.1	6.9	7.8
USA, Arkansas (1998-2012)	27	2.8	1.7	4.0	42	3.3	2.2	4.5	0.0	3.2	6.1	5.0
USA, Arkansas, Black (1998-2012)	5	2.5	1.1	4.0	7	2.7	0.8	4.6	0.0	3.4	4.9	3.2
USA, Arkansas, NH White (1998-2012)	20	2.9	1.8	4.2	32	3.5	2.6	4.5	0.0	3.0	6.8	5.6
USA, California (1998-2012)	502	3.8	3.8	3.9	843	4.9	5.3	4.5	0.2	3.4	9.2	8.6
USA, California, API (1998-2012)	52	3.3	2.6	4.0	91	4.3	4.2	4.4	0.2	3.7	7.0	7.6
USA, California, Black (1998-2012)	48	4.3	3.8	4.8	79	5.4	5.8	5.0	0.3	4.6	9.3	9.2
USA, California, Hispanic White (1998-2012)	226	4.0	4.0	4.1	365	5.1	5.4	4.7	0.3	3.1	10.0	8.7
USA, California, NH White (1998-2012)	170	3.8	4.0	3.6	299	5.0	5.7	4.3	0.2	3.3	9.3	9.1
USA, California, Greater California (2000-2012)	277	4.3	4.4	4.2	427	5.0	5.6	4.4	0.2	3.9	10.2	7.5
USA, California, Greater California, API (2000-2012)	25	4.1	3.2	5.1	39	4.7	4.4	5.1	0.0	5.6	7.9	6.9
USA, California, Greater California, Black (2000-2012)	20	4.3	4.0	4.6	31	5.1	5.5	4.6	0.0	4.5	9.8	7.8
USA, California, Greater California, Hispanic White (2000-2012)	127	4.7	4.8	4.6	187	5.4	5.9	4.9	0.4	3.7	11.6	7.8
USA, California, Greater California, NH White (2000-2012)	98	3.9	4.5	3.2	160	4.7	5.8	3.6	0.2	3.3	9.5	7.5
USA, California, Los Angeles (1993-2012)	150	3.2	2.8	3.6	282	4.6	4.8	4.5	0.3	3.1	7.2	9.5
USA, California, Los Angeles, API (1993-2012)	15	2.9	3.0	2.8	31	4.3	4.3	4.2	0.7	3.3	5.4	9.1
USA, California, Los Angeles, Black (1993-2012)	24	4.5	3.4	5.6	37	5.3	4.6	6.1	0.7	6.0	7.8	8.2
USA, California, Los Angeles, Hispanic White (1993-2012)	82	3.2	2.8	3.7	153	4.7	4.9	4.6	0.2	2.7	7.8	9.9
USA, California, Los Angeles, NH White (1993-2012)	26	2.5	2.5	2.6	58	4.3	4.9	3.7	0.0	1.7	6.9	10.4
USA, California, San Francisco (1993-2012)	58	3.4	3.1	3.8	96	4.4	4.6	4.3	0.0	3.2	8.3	7.9
USA, California, San Francisco, API (1993-2012)	14	3.7	2.9	4.4	25	5.0	6.1	3.8	0.0	5.2	6.8	9.5
USA, California, San Francisco, Black (1993-2012)	6	2.7	2.7	2.7	12	4.2	5.6	2.8	0.0	4.4	4.4	9.4
USA, California, San Francisco, Hispanic White (1993-2012)	17	4.5	5.7	3.2	25	5.1	5.6	4.7	0.0	1.7	13.6	7.2
USA, California, San Francisco, NH White (1993-2012)	21	3.1	2.0	4.2	34	4.0	3.0	5.0	0.0	2.5	7.9	6.9
USA, California, San Francisco, White (1993-2012)	38	3.6	3.3	3.9	59	4.4	3.9	4.9	0.0	2.2	9.9	7.1
USA, California, San José (1993-2012)	36	3.3	2.9	3.8	70	4.9	5.2	4.7	0.0	2.1	9.0	10.6
USA, California, San José, API (1993-2012)	7	2.9	0.8	5.1	11	3.6	1.9	5.4	0.0	1.3	8.5	6.0
USA, California, San José, Hispanic White (1993-2012)	16	4.0	4.4	3.6	30	5.8	7.5	4.0	0.0	1.6	12.0	12.0
USA, California, San José, NH White (1993-2012)	10	2.6	2.1	3.2	25	4.8	4.9	4.8	0.0	3.5	5.1	12.5
USA, Colorado (1998-2012)	64	4.0	3.6	4.5	111	5.3	5.5	5.0	0.4	4.0	8.9	9.6
USA, Colorado, Hispanic White (1998-2012)	21	5.5	5.1	5.9	33	6.8	8.0	5.4	0.7	4.9	12.5	11.1
USA, Colorado, NH White (1998-2012)	33	3.2	3.1	3.3	64	4.6	5.0	4.1	0.3	3.3	6.9	9.4
USA, Connecticut (1993-2012)	45	2.9	3.1	2.6	75	3.7	4.4	2.9	0.0	2.8	6.8	6.5
USA, Connecticut, Black (1993-2012)	7	3.2	5.4	0.9	12	4.2	6.9	1.4	0.0	3.0	7.6	7.8
USA, Connecticut, Hispanic White (1993-2012)	4	2.1	2.1	2.1	9	3.6	3.8	3.3	0.0	3.4	3.5	8.7
USA, Connecticut, NH White (1993-2012)	32	2.9	2.6	3.2	52	3.7	3.9	3.4	0.0	2.8	6.9	6.2
USA, Connecticut, White (1993-2012)	36	2.8	2.5	3.0	61	3.7	3.9	3.3	0.0	2.9	6.4	6.6
USA, Delaware (1998-2012)	8	2.8	3.4	2.1	12	3.1	3.6	2.6	0.0	1.2	8.2	4.4
USA, Delaware, NH White (1998-2012)	6	3.4	5.6	1.1	10	4.2	5.9	2.5	0.0	2.0	9.5	7.0
USA, District of Columbia (1998-2012)	7	4.8	6.9	2.7	13	6.1	7.8	4.3	0.0	4.5	11.5	10.4
USA, Florida (1998-2012)	200	3.7	3.7	3.7	362	5.0	5.5	4.4	0.3	3.5	8.4	9.5
USA, Florida, Black (1998-2012)	47	3.8	3.6	3.9	82	4.9	5.5	4.3	0.0	4.2	8.4	9.0
USA, Florida, Hispanic White (1998-2012)	63	5.4	5.2	5.7	100	6.5	6.5	6.5	0.3	4.4	13.4	10.1
USA, Florida, NH White (1998-2012)	82	2.9	3.1	2.7	166	4.4	5.1	3.6	0.4	2.9	6.2	9.4
USA, Georgia (1998-2012)	100	3.1	2.8	3.5	177	4.2	4.4	4.0	0.7	2.2	7.3	7.9
USA, Georgia, Black (1998-2012)	44	3.8	3.7	3.9	80	5.2	5.7	4.7	0.9	4.0	7.5	10.0
USA, Georgia, Hispanic White (1998-2012)	11	4.6	4.9	4.2	16	5.2	5.5	4.9	0.9	2.4	11.9	7.4
USA, Georgia, NH White (1998-2012)	43	2.5	1.8	3.2	77	3.4	3.3	3.5	0.6	0.8	6.9	6.5
USA, Georgia, Atlanta (1993-2012)	42	3.0	2.3	3.7	75	4.1	4.2	4.0	0.4	2.1	7.3	8.1
USA, Georgia, Atlanta, Black (1993-2012)	22	3.5	2.7	4.3	39	4.8	4.8	4.8	0.5	3.7	7.3	9.3
USA, Georgia, Atlanta, Hispanic White (1993-2012)	6	5.1	3.3	6.9	11	7.1	5.8	8.5	0.0	2.4	14.8	14.1
USA, Georgia, Atlanta, NH White (1993-2012)	13	2.2	1.6	2.8	23	3.1	3.6	2.5	0.6	0.0	6.9	6.0
USA, Georgia, Atlanta, White (1993-2012)	19	2.7	1.9	3.5	34	3.7	4.0	3.4	0.4	0.5	8.1	7.4
USA, Georgia, Greater Georgia (2000-2012)	59	3.3	3.2	3.3	102	4.2	4.7	3.8	0.9	2.2	7.6	7.6
USA, Georgia, Greater Georgia, Black (2000-2012)	22	4.0	5.1	3.0	40	5.4	6.9	3.8	1.2	4.3	7.5	10.0
USA, Georgia, Greater Georgia, NH White (2000-2012)	30	2.7	1.9	3.5	53	3.6	3.3	4.0	0.6	1.2	7.1	6.7
USA, Hawaii (1993-2012)	26	4.7	5.3	4.0	42	5.8	7.0	4.5	0.0	4.3	11.3	9.7
USA, Hawaii, API (1993-2012)	21	4.8	5.8	3.7	34	6.0	8.2	3.6	0.0	5.4	10.5	10.0
USA, Hawaii, Hawaiian (1993-2012)	11	6.3	7.8	4.7	14	6.2	8.7	3.7	0.0	9.4	11.3	6.0
USA, Idaho (1998-2012)	19	3.4	3.8	2.9	39	5.3	6.9	3.6	0.0	1.8	9.6	11.8
USA, Idaho, NH White (1998-2012)	17	3.7	4.6	2.7	33	5.4	7.3	3.3	0.0	2.3	10.2	11.2
USA, Illinois (1998-2012)	159	3.6	3.5	3.6	280	4.8	5.2	4.3	0.3	2.8	8.7	8.9
USA, Illinois, API (1998-2012)	7	4.0	3.4	4.5	11	4.7	5.0	4.4	0.0	5.4	7.7	7.3
USA, Illinois, Black (1998-2012)	32	3.8	3.9	3.6	59	5.3	5.9	4.6	0.8	3.6	7.9	10.4
USA, Illinois, Hispanic White (1998-2012)	28	3.6	4.3	2.8	43	4.3	5.0	3.5	0.4	3.6	7.8	6.8
USA, Illinois, NH White (1998-2012)	91	3.4	3.0	3.9	163	4.7	4.8	4.5	0.1	2.1	9.3	8.8
USA, Indiana (1998-2012)	75	3.4	3.5	3.3	132	4.5	5.4	3.6	0.2	4.3	6.8	8.2
USA, Indiana, Black (1998-2012)	13	4.9	4.6	5.2	23	6.7	7.0	6.4	1.2	6.0	8.6	12.8
USA, Indiana, NH White (1998-2012)	58	3.3	3.5	3.1	105	4.4	5.5	3.3	0.0	4.3	6.6	8.3
USA, Iowa (1993-2012)	51	3.8	4.3	3.3	95	5.2	6.0	4.4	0.8	3.8	7.9	10.0
USA, Iowa, NH White (1993-2012)	46	3.9	4.4	3.4	89	5.5	6.3	4.6	0.9	3.7	8.1	10.9
USA, Iowa, White (1993-2012)	47	3.8	4.3	3.2	90	5.3	6.1	4.4	0.9	3.8	7.7	10.4

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

## VIIIa. Osteosarcomas

	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)	42	3.0	2.1	3.9	80	4.3	4.2	4.4	0.0	3.6	6.3	8.7
USA, Kentucky, NH White (1998-2012)	36	3.0	2.3	3.7	62	3.9	3.9	3.9	0.0	3.7	6.3	6.9
USA, Louisiana (1998-2012)	66	4.1	3.3	4.9	113	5.2	5.1	5.3	0.4	2.8	10.4	9.2
USA, Louisiana, Black (1998-2012)	27	4.2	4.4	4.0	51	5.9	7.1	4.7	0.5	3.2	10.2	11.8
USA, Louisiana, NH White (1998-2012)	36	4.0	2.6	5.6	59	5.0	4.0	6.0	0.4	2.3	10.8	8.1
USA, Maine (1998-2012)	18	4.1	4.5	3.8	28	4.9	6.0	3.6	0.0	1.7	12.4	7.3
USA, Maine, NH White (1998-2012)	15	3.6	4.3	2.9	24	4.4	6.0	2.6	0.0	0.9	11.4	7.0
USA, Maryland (1998-2012)	59	3.1	3.5	2.7	97	3.9	4.5	3.3	0.4	3.1	6.8	6.5
USA, Maryland, Black (1998-2012)	16	2.4	2.3	2.5	29	3.3	3.4	3.3	0.0	3.1	4.9	6.5
USA, Maryland, NH White (1998-2012)	37	3.6	4.3	2.9	58	4.3	5.3	3.3	0.7	3.1	8.2	6.7
USA, Massachusetts (1998-2012)	70	3.4	3.4	3.3	120	4.3	4.6	4.0	0.2	2.7	8.4	7.5
USA, Massachusetts, Black (1998-2012)	9	4.3	3.6	5.2	13	4.7	4.7	4.7	0.0	5.0	9.4	6.0
USA, Massachusetts, Hispanic White (1998-2012)	7	3.4	3.8	3.1	13	4.8	6.5	3.1	0.0	1.6	10.0	9.6
USA, Massachusetts, NH White (1998-2012)	53	3.4	3.6	3.2	91	4.3	4.6	4.1	0.2	2.5	8.6	7.6
USA, Michigan (1998-2012)	123	3.4	3.1	3.8	227	4.8	4.8	4.7	0.2	2.5	8.8	9.4
USA, Michigan, Black (1998-2012)	27	4.0	3.7	4.4	45	5.2	5.1	5.3	0.6	3.1	9.8	9.2
USA, Michigan, Hispanic White (1998-2012)	3	1.7	2.3	1.2	7	3.2	3.6	2.9	0.0	1.8	4.0	8.3
USA, Michigan, NH White (1998-2012)	89	3.4	3.1	3.7	165	4.7	4.8	4.6	0.1	2.3	8.9	9.3
USA, Michigan, Detroit (1993-2012)	55	2.8	2.9	2.7	113	4.6	5.3	3.8	0.0	2.4	7.0	10.7
USA, Michigan, Detroit, Black (1993-2012)	21	3.4	4.2	2.6	39	5.1	6.2	3.9	0.0	2.2	9.4	10.7
USA, Michigan, Detroit, NH White (1993-2012)	32	2.7	2.5	3.0	66	4.4	4.9	3.8	0.0	2.6	6.4	10.1
USA, Michigan, Detroit, White (1993-2012)	34	2.7	2.5	3.0	70	4.4	5.0	3.7	0.0	2.7	6.3	10.2
USA, Minnesota (1998-2012)	52	3.0	3.4	2.5	115	4.8	5.8	3.8	0.6	3.1	6.0	11.2
USA, Minnesota, NH White (1998-2012)	38	2.7	3.4	2.0	88	4.5	5.5	3.4	0.5	2.7	5.6	10.8
USA, Mississippi (2002-2012)	28	3.6	3.7	3.5	47	4.6	5.2	3.9	0.0	3.6	8.5	7.8
USA, Mississippi, Black (2002-2012)	17	4.8	4.9	4.7	25	5.4	5.8	4.9	0.0	4.0	12.2	7.2
USA, Mississippi, NH White (2002-2012)	11	2.8	2.9	2.7	21	4.0	5.0	2.9	0.0	3.5	5.8	8.0
USA, Missouri (1996-2012)	65	2.9	3.0	2.8	126	4.2	4.9	3.4	0.0	3.5	6.1	8.6
USA, Missouri, Black (1996-2012)	17	4.8	5.0	4.7	28	6.1	7.2	4.9	0.0	4.8	11.3	10.4
USA, Missouri, NH White (1996-2012)	39	2.2	2.5	1.9	88	3.6	4.6	2.7	0.0	2.5	4.7	8.7
USA, Montana (1998-2012)	11	3.7	1.7	5.7	24	5.6	4.6	6.6	1.2	4.4	6.1	12.4
USA, Montana, NH White (1998-2012)	8	3.3	0.7	6.1	18	5.1	3.4	6.8	1.4	5.3	3.6	11.1
USA, Nebraska (1998-2012)	24	3.9	5.4	2.2	40	4.8	7.1	2.4	0.5	3.2	9.0	8.0
USA, Nebraska, NH White (1998-2012)	16	3.2	4.7	1.6	30	4.4	6.6	2.1	0.0	2.8	7.9	8.5
USA, Nevada (1998-2012)	26	3.2	3.2	3.2	42	4.0	4.9	3.1	0.8	2.0	7.7	6.9
USA, Nevada, Hispanic White (1998-2012)	11	4.4	5.5	3.2	16	5.1	6.8	3.2	1.1	1.2	12.1	7.5
USA, Nevada, NH White (1998-2012)	11	2.8	2.6	3.1	17	3.4	3.8	2.8	0.9	3.4	4.9	5.1
USA, New Hampshire (1998-2012)	19	4.5	2.5	6.6	35	6.0	4.8	7.4	0.9	4.1	9.6	11.5
USA, New Hampshire, NH White (1998-2012)	16	4.1	2.7	5.5	31	5.8	4.8	6.8	1.0	3.5	8.7	11.6
USA, New Jersey (1998-2012)	111	3.8	3.8	3.9	181	4.8	5.2	4.4	0.8	3.4	8.4	8.2
USA, New Jersey, API (1998-2012)	5	2.2	1.8	2.7	5	1.7	1.4	2.1	0.0	1.4	6.0	0.0
USA, New Jersey, Black (1998-2012)	19	3.8	4.4	3.1	34	5.0	6.5	3.5	1.4	4.6	6.1	9.4
USA, New Jersey, Hispanic White (1998-2012)	24	5.4	3.2	7.7	37	6.3	4.0	8.7	1.9	5.7	9.6	9.3
USA, New Jersey, NH White (1998-2012)	61	3.6	3.9	3.2	102	4.6	5.5	3.7	0.4	2.6	8.8	8.4
USA, New Mexico (1993-2012)	35	3.7	4.9	2.4	52	4.2	5.5	2.8	0.4	2.2	9.7	5.9
USA, New Mexico, Hispanic White (1993-2012)	21	4.5	5.4	3.5	28	4.6	6.1	3.0	0.0	2.9	12.1	5.0
USA, New Mexico, NH White (1993-2012)	11	3.5	5.7	1.2	19	4.6	6.6	2.4	1.2	1.1	9.3	8.1
USA, New Mexico, White (1993-2012)	32	4.1	5.5	2.6	47	4.6	6.3	2.8	0.4	2.2	11.0	6.3
USA, New York State (1998-2012)	221	3.5	3.0	4.0	396	4.7	4.5	4.9	0.2	3.1	8.3	8.8
USA, New York State, API (1998-2012)	13	3.2	4.2	2.1	21	3.8	3.9	3.7	0.0	4.1	6.4	5.9
USA, New York State, Black (1998-2012)	56	3.9	2.6	5.3	97	5.2	5.1	5.2	0.0	3.0	10.3	9.4
USA, New York State, Hispanic White (1998-2012)	39	4.1	4.3	3.9	64	5.0	5.2	4.9	0.3	4.1	9.0	8.4
USA, New York State, NH White (1998-2012)	101	2.9	2.3	3.5	196	4.2	3.8	4.5	0.2	2.4	7.0	8.6
USA, New York State, White (1998-2012)	140	3.1	2.7	3.6	260	4.4	4.1	4.6	0.2	2.8	7.4	8.5
USA, North Carolina (1998-2012)	95	3.2	3.5	2.8	170	4.3	5.2	3.4	0.0	2.7	7.9	8.3
USA, North Carolina, Black (1998-2012)	29	3.6	3.7	3.5	55	5.1	5.8	4.3	0.0	3.8	8.1	10.3
USA, North Carolina, Hispanic White (1998-2012)	8	3.6	6.1	0.9	21	7.6	11.3	3.2	0.0	5.2	6.5	21.4
USA, North Carolina, NH White (1998-2012)	53	2.9	3.3	2.5	88	3.7	4.5	2.8	0.0	2.1	7.7	6.3
USA, North Dakota (1998-2012)	4	1.9	1.9	2.0	12	3.9	3.2	4.6	0.0	3.3	3.1	10.4
USA, North Dakota, NH White (1998-2012)	2	1.2	1.2	1.3	9	3.3	2.9	3.7	0.0	3.8	0.0	10.3
USA, Ohio (1998-2012)	131	3.3	3.2	3.4	209	4.0	4.3	3.6	0.5	2.2	8.2	6.3
USA, Ohio, Black (1998-2012)	21	3.2	3.6	2.9	37	4.4	5.4	3.5	0.0	3.1	7.7	8.5
USA, Ohio, NH White (1998-2012)	104	3.3	3.1	3.6	164	3.9	4.1	3.8	0.6	2.0	8.4	6.1
USA, Oklahoma (1998-2012)	34	2.7	2.2	3.3	70	4.2	4.3	4.0	0.0	3.5	5.6	9.1
USA, Oklahoma, Native American (1998-2012)	2	1.1	1.1	1.1	7	3.1	4.3	1.8	0.0	0.0	3.8	9.8
USA, Oklahoma, NH White (1998-2012)	21	2.6	2.5	2.8	43	3.9	4.1	3.7	0.0	3.4	5.3	8.3
USA, Oregon (1998-2012)	32	2.6	2.7	2.6	75	4.6	5.6	3.6	0.3	1.4	7.1	11.5
USA, Oregon, Hispanic White (1998-2012)	3	1.7	1.1	2.4	5	2.3	2.7	1.9	0.0	1.8	4.0	4.4
USA, Oregon, NH White (1998-2012)	27	3.0	3.1	2.8	62	5.0	6.1	3.9	0.4	1.6	7.9	12.0
USA, Pennsylvania (1998-2012)	112	2.8	2.5	3.1	208	3.8	4.0	3.6	0.4	2.7	6.1	7.2
USA, Pennsylvania, Black (1998-2012)	23	3.7	3.2	4.3	34	4.2	4.6	3.8	0.0	3.4	9.1	5.8
USA, Pennsylvania, Hispanic White (1998-2012)	4	1.8	1.8	1.8	6	2.1	2.7	1.4	0.0	0.0	6.2	3.1
USA, Pennsylvania, NH White (1998-2012)	77	2.5	2.3	2.7	153	3.6	3.9	3.3	0.4	2.5	5.4	7.4
USA, Rhode Island (1998-2012)	11	3.2	3.9	2.4	18	3.8	5.3	2.3	0.0	2.0	8.7	5.9
USA, Rhode Island, NH White (1998-2012)	7	2.9	3.2	2.6	10	3.0	3.5	2.5	0.0	2.9	6.7	3.5
USA, South Carolina (1998-2012)	50	3.4	2.6	4.3	78	4.0	4.2	3.8	0.5	2.6	8.3	6.0
USA, South Carolina, Black (1998-2012)	17	3.2	2.3	4.1	30	4.2	4.4	4.0	0.0	3.3	7.4	7.7
USA, South Carolina, NH White (1998-2012)	31	3.6	3.0	4.3	43	3.8	3.9	3.7	0.4	2.4	9.2	4.4
USA, South Dakota (2001-2012)	7	3.2	2.8	3.7	12	4.1	4.6	3.5	0.0	4.6	6.0	7.0
USA, South Dakota, NH White (2001-2012)	3	1.7	1.1	2.4	8	3.3	3.8	2.7	0.0	2.0	3.8	8.5
USA, Tennessee (1999-2012)	61	3.2	2.7	3.8	105	4.2	3.9	4.5	0.2	3.2	7.3	7.6
USA, Tennessee, Black (1999-2012)	18	4.4	3.9	5.0	31	5.7	4.8	6.7	0.8	5.7	7.8	10.2
USA, Tennessee, NH White (1999-2012)	40	2.9	2.4	3.4	69	3.8	3.7	3.9	0.0	2.5	7.2	6.9
USA, Texas (1998-2012)	323	3.7	3.9	3.5	570	5.0	5.6	4.3	0.3	3.2	8.7	9.4
USA, Texas, API (1998-2012)	4	1.3	2.0	0.7	12	3.1	3.0	3.2	0.0	3.1	1.1	9.1

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

## VIIIa. Osteosarcomas

	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)	56	4.6	4.7	4.6	90	5.7	5.9	5.4	0.6	3.6	11.1	9.3
USA, Texas, Hispanic White (1998-2012)	137	3.7	4.1	3.4	239	5.1	6.1	4.0	0.3	3.4	8.7	9.7
USA, Texas, NH White (1998-2012)	117	3.4	3.3	3.4	216	4.6	5.0	4.3	0.3	2.8	8.0	9.0
USA, Utah (1993-2012)	47	3.5	3.4	3.5	95	5.2	7.0	3.5	0.9	2.6	7.8	11.3
USA, Utah, Hispanic White (1993-2012)	4	2.7	3.9	1.4	7	3.7	5.0	2.2	0.0	0.0	9.2	7.1
USA, Utah, NH White (1993-2012)	41	3.7	3.3	4.1	83	5.5	7.1	3.9	1.1	2.9	7.9	11.8
USA, Utah, White (1993-2012)	45	3.5	3.4	3.7	90	5.3	6.9	3.7	1.0	2.6	8.1	11.3
USA, Vermont (1998-2012)	9	4.6	3.8	5.5	17	6.1	7.9	4.3	0.0	7.2	8.0	11.3
USA, Vermont, NH White (1998-2012)	9	4.9	4.0	5.8	17	6.5	8.4	4.5	0.0	7.6	8.4	12.0
USA, Virginia (1998-2012)	71	2.8	3.0	2.6	142	4.2	4.9	3.5	0.3	2.3	6.8	9.0
USA, Virginia, Black (1998-2012)	21	3.3	4.4	2.3	38	4.6	5.9	3.2	0.6	1.1	9.5	8.7
USA, Virginia, Hispanic White (1998-2012)	3	1.8	1.2	2.4	4	1.9	1.8	1.9	0.0	3.7	2.1	2.0
USA, Virginia, NH White (1998-2012)	44	2.8	3.0	2.5	86	4.1	4.6	3.5	0.2	2.6	6.4	8.4
USA, Washington State (1998-2012)	65	3.1	3.0	3.1	112	4.0	4.4	3.6	0.8	2.5	6.7	7.0
USA, Washington State, Hispanic White (1998-2012)	9	3.3	2.1	4.4	16	4.6	4.5	4.7	0.0	4.5	6.3	9.3
USA, Washington State, NH White (1998-2012)	44	3.0	3.0	3.0	74	3.7	4.2	3.2	1.2	2.3	6.2	6.2
USA, Washington, Seattle (1993-2012)	53	2.9	2.8	2.9	84	3.5	3.8	3.1	0.6	2.0	6.9	5.6
USA, Washington, Seattle, API (1993-2012)	6	3.2	3.1	3.2	8	3.2	3.2	3.3	0.0	0.0	10.9	3.4
USA, Washington, Seattle, Hispanic White (1993-2012)	7	4.9	2.8	7.1	11	6.1	5.4	6.7	1.8	4.2	9.8	10.2
USA, Washington, Seattle, NH White (1993-2012)	33	2.5	2.6	2.3	55	3.1	3.8	2.5	0.5	2.0	5.6	5.4
USA, Washington, Seattle, White (1993-2012)	40	2.7	2.6	2.9	66	3.4	3.9	2.9	0.7	2.3	5.9	5.8
USA, West Virginia (1998-2012)	14	2.5	2.1	2.9	28	3.7	3.8	3.6	0.0	2.5	5.9	7.7
USA, West Virginia, NH White (1998-2012)	13	2.5	2.3	2.8	27	3.8	4.1	3.5	0.0	2.7	5.7	8.2
USA, Wisconsin (1998-2012)	51	2.6	2.7	2.5	99	3.8	4.7	2.8	0.2	1.3	7.3	7.8
USA, Wisconsin, NH White (1998-2012)	36	2.3	2.1	2.5	74	3.5	3.9	3.1	0.0	1.2	6.6	7.6
USA, Wyoming (1998-2012)	6	3.3	4.3	2.2	9	3.7	4.0	3.3	0.0	1.9	9.1	5.0
<b>ASIA</b>												
BAHRAIN (1998-2012)	7	2.1	3.0	1.2	11	2.6	3.7	1.4	0.9	0.0	6.0	4.4
CHINA, 6 registries (1990-2013)	251	3.7	4.1	3.3	456	4.5	5.1	3.9	0.5	3.4	8.3	7.2
CHINA, Beijing (2000-2013)	67	3.4	3.6	3.2	139	4.2	4.7	3.7	0.4	3.6	7.1	7.0
CHINA, Dalian (2003-2012)	4	1.6	3.2	0.0	15	3.5	5.6	1.3	0.0	1.5	3.9	9.9
CHINA, Guangzhou (2010-2012)	16	4.1	5.9	2.1	32	5.4	6.9	3.6	0.0	4.0	9.8	9.7
CHINA, Hong Kong (1990-2013)	129	4.3	4.6	3.9	214	5.1	5.6	4.6	1.0	3.2	9.8	8.2
CHINA, Shanghai (2002-2012)	27	4.0	3.7	4.3	41	4.0	3.9	4.1	0.0	4.2	9.1	3.8
CHINA, Zhongshan (2003-2012)	8	1.9	2.6	1.1	15	2.9	4.4	1.3	0.0	3.3	2.8	6.3
INDIA, 7 registries (1990-2013)	407	2.1	2.2	1.9	920	3.4	4.0	2.7	0.6	1.3	4.9	8.1
INDIA, Bangalore (1993-2011)	47	1.3	1.3	1.3	107	2.3	2.7	1.8	0.0	1.1	3.4	5.4
INDIA, Chennai (1993-2013)	51	2.0	1.8	2.2	130	3.7	3.8	3.6	0.4	1.3	5.0	9.5
INDIA, Kollam (2006-2012)	16	3.4	2.7	4.0	28	4.6	5.3	3.8	0.8	3.0	7.3	8.6
INDIA, Mumbai (1993-2012)	121	1.8	1.9	1.6	290	2.9	3.5	2.2	1.2	0.8	3.5	6.9
INDIA, Nagpur (1990-2012)	27	1.7	1.4	2.1	62	3.0	3.6	2.4	0.5	0.9	4.3	7.3
INDIA, New Delhi (2003-2010)	135	3.0	3.6	2.4	288	5.0	6.1	3.7	0.3	1.7	8.1	11.9
INDIA, Trivandrum (2005-2012)	10	4.4	5.4	3.4	15	5.0	6.6	3.3	0.0	7.9	6.5	6.9
IRAN, Golestan (2004-2011)	12	2.6	2.1	3.1	23	3.5	3.5	3.5	0.0	0.0	8.9	6.5
ISRAEL (1990-2012)	108	2.5	2.8	2.1	215	3.9	4.8	2.9	0.2	2.3	5.7	8.8
ISRAEL, Jews (1990-2012)	74	2.3	2.6	2.0	156	3.8	4.6	2.9	0.2	2.0	5.5	8.8
ISRAEL, Non-Jews (1990-2012)	34	2.9	3.5	2.3	59	4.2	5.6	2.7	0.2	3.2	6.3	8.5
JAPAN, 8 registries (1990-2013)	201	2.8	3.1	2.6	368	3.8	4.5	2.9	0.2	2.1	7.1	6.9
JAPAN, Aichi (2008-2012)	16	2.7	2.9	2.4	23	2.9	3.2	2.6	0.0	2.8	6.0	3.8
JAPAN, Hiroshima (1990-2012)	13	2.7	2.4	2.9	30	4.4	4.3	4.5	0.0	0.0	9.2	10.4
JAPAN, Miyagi (1990-2010)	29	3.3	4.0	2.5	52	4.1	5.3	2.8	0.4	3.2	7.1	7.0
JAPAN, Nagasaki (1993-2012)	16	2.7	2.9	2.5	28	3.6	4.5	2.7	0.0	0.7	8.6	6.6
JAPAN, Niigata (2003-2012)	8	2.1	1.0	3.2	24	4.7	4.5	4.8	0.0	0.9	6.1	13.7
JAPAN, Osaka (1990-2012)	94	2.8	2.9	2.6	171	3.6	4.4	2.8	0.2	2.2	6.9	6.4
JAPAN, Tochigi (2005-2012)	4	1.6	2.2	0.9	10	3.0	4.0	1.9	0.0	1.4	3.9	7.7
JAPAN, Yamagata (1990-2013)	21	4.1	5.7	2.5	30	4.4	6.6	2.2	0.8	4.1	8.6	5.6
JORDAN (2000-2012)	93	3.2	3.5	2.8	201	5.5	6.0	5.0	0.2	2.9	7.4	13.5
REPUBLIC OF KOREA (1999-2012)	647	4.3	4.4	4.2	1095	5.4	6.0	4.7	0.6	3.4	10.2	9.3
REPUBLIC OF KOREA, Busan (1999-2012)	50	4.9	4.8	5.0	88	6.1	6.5	5.7	1.3	2.5	12.4	10.2
REPUBLIC OF KOREA, Daegu (1999-2012)	44	5.4	5.2	5.7	67	6.2	6.5	5.7	0.6	3.6	13.9	8.7
REPUBLIC OF KOREA, Daejeon (1999-2012)	15	3.1	3.3	3.0	27	4.2	4.5	3.9	0.9	2.2	7.3	7.8
REPUBLIC OF KOREA, Gwangju (1997-2012)	32	5.7	5.7	5.7	54	7.2	8.3	6.0	0.7	6.7	11.3	12.1
REPUBLIC OF KOREA, Incheon (1998-2012)	48	5.2	5.6	4.8	73	6.0	7.3	4.6	0.9	4.8	11.5	8.6
REPUBLIC OF KOREA, Jeju (2000-2012)	10	5.7	4.5	7.1	14	6.2	4.3	8.3	0.0	5.8	13.3	8.0
REPUBLIC OF KOREA, Seoul (1995-2012)	156	4.1	4.6	3.6	292	5.5	6.6	4.3	0.5	3.4	9.8	10.2
REPUBLIC OF KOREA, Ulsan (2001-2012)	13	4.1	2.8	5.5	24	5.6	5.1	6.2	1.3	3.3	8.6	11.0
KUWAIT (1994-2012)	6	0.5	0.8	0.2	6	0.4	0.6	0.1	0.9	0.5	0.0	0.0
KUWAIT, Kuwaitis (1994-2012)	2	0.3	0.3	0.3	2	0.2	0.2	0.2	0.8	0.0	0.0	0.0
KUWAIT, Non-Kuwaitis (1994-2012)	4	0.8	1.6	0.0	4	0.6	1.2	0.0	1.1	1.2	0.0	0.0
LEBANON (2008-2010)	14	3.4	5.7	1.0	26	4.8	7.6	1.9	0.9	4.0	6.1	9.7
PAKISTAN, Karachi (1995-2002)	16	2.7	2.2	3.2	33	4.7	4.6	4.9	0.0	0.0	9.3	11.8
PAKISTAN, Lahore (2008-2012)	53	2.5	2.9	2.2	107	4.2	5.1	3.2	0.2	1.7	6.5	10.0
PHILIPPINES, 2 registries (1993-2012)	377	4.8	4.7	5.0	727	7.0	8.0	6.1	0.4	3.3	12.4	14.6
PHILIPPINES, Manila (1993-2012)	210	5.8	5.5	6.2	392	8.1	8.9	7.4	0.5	3.6	15.4	15.8
PHILIPPINES, Rizal (1993-2012)	167	4.0	4.0	4.0	335	6.1	7.3	5.0	0.4	3.0	9.9	13.4
QATAR (2002-2014)	7	2.4	2.6	2.2	9	2.4	2.9	1.7	0.0	0.0	8.2	2.5
SAUDI ARABIA, Riyadh (1994-2012)	109	3.1	3.4	2.9	187	4.4	5.3	3.6	0.6	2.4	7.4	9.0
SAUDI ARABIA, Riyadh, Non-Saudis (1994-2012)	30	5.3	4.5	6.2	43	6.5	6.3	6.8	1.4	2.6	13.6	10.7
SAUDI ARABIA, Riyadh, Saudis (1994-2012)	79	2.7	3.1	2.3	144	4.1	5.1	3.0	0.4	2.3	6.2	8.7
THAILAND, 6 registries (1993-2013)	133	2.9	2.8	3.1	239	3.7	4.0	3.4	0.3	2.3	7.1	6.6
THAILAND, Bangkok (2001-2012)	50	3.4	3.3	3.4	90	4.1	4.6	3.6	1.0	1.6	8.5	6.6
THAILAND, Chiang Mai (1993-2012)	23	3.4	3.1	3.8	39	4.2	4.5	3.9	0.0	4.7	6.6	6.8
THAILAND, Chonburi (1998-2012)	14	3.3	2.8	3.8	26	4.6	4.5	4.7	0.0	2.4	8.7	9.2
THAILAND, Khon Kaen (1993-2012)	20	2.3	1.3	3.2	44	3.6	3.3	3.9	0.0	2.0	5.5	8.3
THAILAND, Lampang (1993-2013)	7	2.0	2.3	1.6	12	2.5	3.7	1.3	0.0	2.0	4.5	4.3

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

## VIIA. Osteosarcomas

	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)	19	2.5	3.1	1.9	28	2.8	3.2	2.4	0.0	1.9	6.7	3.8
TURKEY, paediatric (2009-2011)	116	1.8	1.6	2.0	-	-	-	-	0.1	1.6	4.3	-
TURKEY, 8 registries (1992-2012)	131	2.9	2.5	3.2	247	4.0	4.3	3.8	0.2	2.4	6.9	8.1
TURKEY, Ankara (2008-2012)	23	3.9	5.0	2.7	45	5.7	7.3	4.1	0.6	3.5	8.7	12.1
TURKEY, Antalya (1998-2012)	22	3.2	3.1	3.3	42	4.7	5.2	4.1	0.5	2.4	7.6	9.7
TURKEY, Bursa (2004-2012)	18	3.1	2.9	3.2	26	3.4	3.3	3.5	0.0	2.4	7.9	4.5
TURKEY, Erzurum (2006-2012)	3	1.5	1.0	2.1	6	2.4	1.6	3.3	0.0	0.0	5.2	5.6
TURKEY, İzmir (1992-2012)	51	2.7	1.8	3.6	101	4.0	4.1	3.8	0.0	2.3	6.8	8.3
TURKEY, Samsun (2003-2012)	7	1.9	0.5	3.2	15	3.0	2.0	4.1	0.0	1.0	5.3	7.0
TURKEY, Trabzon (2003-2012)	5	2.9	3.8	1.9	7	2.9	3.6	2.1	2.1	3.5	3.2	3.0
VIET NAM, Ho Chi Minh City (1995-2013)	70	2.7	2.6	2.7	151	3.7	3.9	3.5	0.2	2.5	6.1	7.2
<b>EUROPE</b>												
AUSTRIA (1990-2012)	132	3.8	3.7	3.8	225	4.8	5.2	4.3	0.4	2.9	9.2	8.3
BELARUS, paediatric (1990-2014)	128	2.4	2.6	2.2	228	3.1	3.7	2.4	0.1	1.9	6.0	5.5
BELGIUM (2004-2013)	79	3.8	3.9	3.8	143	5.2	5.9	4.5	0.0	2.7	10.2	10.0
BULGARIA (1990-2013)	76	2.1	1.7	2.5	133	2.6	2.7	2.6	0.1	1.4	5.4	4.5
CROATIA (2001-2014)	37	3.5	4.6	2.3	67	4.6	5.7	3.4	0.0	4.2	7.3	8.4
CYPRUS, South-West (1998-2012)	14	5.1	6.3	3.7	23	6.2	7.9	4.5	0.0	0.0	17.5	10.2
CZECH REPUBLIC (1990-2012)	119	2.6	2.8	2.4	201	3.1	3.7	2.5	0.2	2.6	5.7	4.9
ESTONIA (1990-2012)	11	1.8	1.0	2.6	31	3.4	3.1	3.6	0.0	4.1	1.4	9.0
FRANCE, paediatric (2000-2012)	508	3.1	3.0	3.2	-	-	-	-	0.2	2.8	7.3	-
FRANCE, 13 registries (1993-2012)	105	3.0	2.9	3.0	216	4.6	5.1	4.0	0.1	2.5	7.4	10.0
FRANCE, Bas-Rhin (1993-2011)	9	2.2	1.9	2.5	25	4.5	5.6	3.3	0.8	1.6	4.8	12.1
FRANCE, Calvados (1990-2012)	9	2.7	2.4	3.0	17	3.7	2.6	4.8	0.0	2.0	7.0	7.3
FRANCE, Doubs (1993-2012)	4	1.7	0.8	2.7	13	4.2	4.3	4.0	0.0	0.0	6.0	12.5
FRANCE, Gironde (2008-2012)	2	1.4	0.0	2.8	6	3.0	2.9	3.1	0.0	0.0	4.7	8.7
FRANCE, Haut-Rhin (1993-2012)	12	3.8	3.2	4.4	17	4.2	4.4	3.9	0.0	2.1	10.6	5.5
FRANCE, Hérault (1993-2012)	14	3.7	4.1	3.3	27	5.2	6.4	4.0	0.0	3.6	8.7	10.3
FRANCE, Isère (1993-2012)	17	3.3	3.4	3.2	32	4.8	4.9	4.6	0.0	2.6	8.6	9.6
FRANCE, Loire-Atlantique and Vendée (1998-2012)	15	2.6	1.6	3.5	33	4.3	4.0	4.6	0.0	1.7	6.9	10.2
FRANCE, Manche (1994-2012)	10	5.1	8.1	2.1	16	6.3	7.7	4.9	0.0	8.6	8.2	10.3
FRANCE, Somme (1993-2012)	6	2.4	3.2	1.6	15	4.4	6.4	2.4	0.0	1.4	6.8	11.4
GERMANY, paediatric (1996-2012)	684	2.9	2.8	3.0	-	-	-	-	0.3	2.4	6.9	-
GERMANY, 6 Eastern registries (2001-2007)	57	3.6	2.9	4.3	114	4.5	4.5	4.4	0.5	2.7	8.6	7.6
GERMANY, 5 Western registries (1994-2012)	181	3.1	3.0	3.2	332	4.2	4.8	3.6	0.4	2.2	7.6	8.1
GERMANY, Bavaria (2002-2012)	71	2.9	2.8	3.1	132	4.1	4.7	3.4	0.3	1.6	7.9	8.0
GERMANY, Lower Saxony (2003-2012)	49	3.4	3.7	3.1	87	4.5	5.8	3.2	0.3	2.5	8.6	8.3
GERMANY, Rhine-Pfalz (1998-2012)	33	3.1	3.0	3.2	67	4.6	5.0	4.2	0.4	2.6	7.2	9.9
GERMANY, Saarland (1994-2012)	11	3.4	3.0	3.9	19	4.4	4.4	4.3	0.0	5.3	5.9	7.5
GERMANY, Schleswig-Holstein (2000-2012)	17	2.7	2.3	3.2	27	3.3	3.1	3.4	1.2	1.6	6.0	5.0
HUNGARY, paediatric (1991-2014)	134	2.9	2.7	3.0	-	-	-	-	0.0	2.9	6.6	-
ICELAND (1990-2014)	8	4.5	5.6	3.3	18	7.6	10.8	4.2	0.0	5.5	9.2	18.3
IRELAND (1994-2012)	50	2.7	3.1	2.2	95	3.8	4.5	2.9	0.0	2.0	6.9	7.6
ITALY, 2 paediatric registries (1998-2011)	42	4.5	4.1	4.8	71	5.7	6.7	4.7	0.0	3.2	11.8	10.1
ITALY, Marche, paediatric (1998-2007)	10	4.5	3.7	5.4	19	6.4	7.8	4.9	0.0	3.1	12.2	12.8
ITALY, Piedmont, paediatric (1990-2011)	49	3.7	3.2	4.2	-	-	-	-	0.0	2.6	9.7	-
ITALY, Piedmont, paediatric (2000-2011)	32	4.4	4.3	4.6	52	5.5	6.3	4.7	0.0	3.2	11.7	9.2
ITALY, 26 registries (1992-2013)	138	3.0	3.2	2.9	238	3.8	4.4	3.2	0.4	2.4	7.2	6.6
ITALY, Brescia (1999-2012)	6	2.5	2.5	2.6	14	4.5	5.6	3.4	0.0	2.7	5.7	11.3
ITALY, Catania (2003-2013)	14	3.6	4.5	2.8	23	4.4	6.2	2.5	0.0	2.8	9.4	7.0
ITALY, Friuli-Venezia Giulia (1995-2010)	2	0.8	1.5	0.0	9	2.6	3.4	1.8	0.0	0.0	2.7	8.9
ITALY, Milan (1999-2007)	3	2.2	0.0	4.5	7	3.9	4.3	3.5	0.0	0.0	7.6	9.9
ITALY, Modena (1990-2012)	9	4.5	5.0	3.9	13	4.8	4.5	5.1	0.0	8.1	6.4	5.8
ITALY, Naples (1996-2012)	12	4.5	3.8	5.3	15	4.3	4.5	4.1	0.0	6.3	8.6	3.5
ITALY, Parma (1992-2013)	6	5.2	6.8	3.6	9	5.8	8.7	2.8	0.0	8.5	8.6	7.9
ITALY, Ragusa (1992-2012)	4	2.9	2.6	3.2	5	2.7	2.0	3.3	2.4	2.3	4.3	2.0
ITALY, Reggio Emilia (1996-2012)	3	2.6	3.2	1.9	7	4.5	7.3	1.5	2.4	2.6	2.8	11.1
ITALY, Romagna (1990-2012)	9	2.8	3.1	2.5	16	3.6	4.0	3.2	0.0	3.2	6.2	6.4
ITALY, Salerno (1997-2009)	7	2.9	2.5	3.4	15	4.2	4.8	3.6	2.8	2.6	3.5	8.7
ITALY, Sassari (1992-2011)	2	1.7	0.0	3.5	6	2.9	2.3	3.6	2.5	2.3	0.0	7.1
ITALY, Turin (1992-2012)	5	2.1	2.5	1.7	9	2.8	3.6	1.9	0.0	1.4	5.6	5.0
ITALY, Umbria (1994-2011)	11	5.0	5.4	4.6	14	4.8	5.4	4.2	0.0	1.6	15.4	4.2
ITALY, Varese (1992-2012)	10	3.6	5.0	2.2	17	4.6	6.3	2.8	0.0	0.0	12.6	7.9
ITALY, Veneto (1992-2009)	12	1.8	2.0	1.5	30	3.2	3.2	3.3	0.0	1.0	5.0	8.1
LITHUANIA (2000-2012)	16	1.7	1.7	1.7	37	2.8	3.2	2.3	0.0	0.4	5.3	6.6
MALTA (1994-2013)	4	2.5	2.4	2.5	7	3.1	2.6	3.6	0.0	4.2	3.8	5.3
THE NETHERLANDS (1993-2013)	215	3.2	3.0	3.3	406	4.6	4.8	4.3	0.1	2.9	7.5	9.4
NORWAY (1990-2013)	73	3.1	3.2	3.0	133	4.3	4.7	4.0	0.1	2.4	7.9	8.6
POLAND (2001-2013)	211	2.2	2.2	2.2	419	3.0	3.6	2.4	0.2	1.7	5.3	5.8
POLAND, Greater Poland (1999-2013)	23	2.2	1.6	2.7	49	3.2	3.9	2.5	0.0	2.1	5.2	6.7
POLAND, Kielce (1990-2013)	16	2.4	1.9	2.9	34	3.7	2.9	4.5	0.6	1.1	6.3	7.9
POLAND, Lower Silesia (2000-2013)	23	3.2	3.5	2.9	37	3.6	4.5	2.7	0.0	3.1	7.6	5.0
POLAND, Lublin (1999-2013)	12	1.7	1.6	1.9	24	2.4	2.3	2.5	0.0	1.1	4.7	4.8
PORTUGAL (1991-2012)	87	2.8	2.7	2.9	177	4.2	4.7	3.6	0.2	2.0	7.1	8.8
PORTUGAL, Centre (2000-2010)	14	3.1	2.5	3.7	21	3.4	3.7	3.2	0.0	2.3	8.0	4.7
PORTUGAL, North (1991-2010)	38	2.8	2.8	2.8	85	4.5	5.2	3.8	0.3	2.1	7.1	10.3
PORTUGAL, South (1998-2012)	31	2.6	2.7	2.5	67	4.1	4.7	3.4	0.3	1.9	6.3	9.2
RUSSIAN FEDERATION, Moscow region, paediatric (2000-2009)	30	2.8	3.0	2.7	-	-	-	-	0.4	2.7	6.3	-
RUSSIAN FEDERATION, 2 registries (1998-2015)	30	2.4	2.5	2.2	56	3.0	3.3	2.7	0.8	2.0	4.9	5.1
RUSSIAN FEDERATION, Chelyabinsk (2008-2012)	12	4.4	4.3	4.5	19	4.8	5.0	4.7	3.0	1.2	9.9	6.4
RUSSIAN FEDERATION, Samara (1998-2015)	18	1.8	2.0	1.5	37	2.4	2.8	2.1	0.0	2.2	3.7	4.8
SLOVAKIA (1990-2009)	87	3.3	3.2	3.4	146	4.1	4.7	3.4	0.3	1.8	9.0	6.8
SLOVAKIA, paediatric (2000-2012)	53	3.7	3.1	4.2	-	-	-	-	0.3	1.8	10.1	-
SLOVENIA (1991-2012)	23	2.8	2.3	3.3	47	4.1	3.9	4.2	0.0	3.5	5.8	8.3
SPAIN, 2 paediatric registries (1991-2013)	175	3.4	3.3	3.4	-	-	-	-	0.4	2.8	7.9	-

*Italic when fewer than 10 cases*

Please consult the quality indicators for the individual registries

## VIIA. Osteosarcomas

	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, Selected regions, paediatric (2000-2013)	118	3.3	3.4	3.1	-	-	-	-	0.5	2.8	7.4	-
SPAIN, Valencia, paediatric (1991-2010)	57	3.6	3.1	4.1	-	-	-	-	0.2	2.7	8.9	-
SPAIN, 11 registries (1990-2013)	153	4.2	4.1	4.2	254	5.0	5.6	4.3	0.6	3.4	9.8	7.7
SPAIN, Asturias (1992-2010)	18	6.1	7.4	4.6	26	6.3	8.1	4.4	0.0	2.7	17.9	7.0
SPAIN, Balearic Islands (1990-2012)	12	4.2	3.9	4.7	23	5.8	6.5	5.0	2.3	3.5	7.7	11.0
SPAIN, Basque Country (1990-2012)	33	4.4	4.3	4.5	51	4.8	5.2	4.4	1.0	3.3	10.1	6.4
SPAIN, Canary Islands (1993-2011)	20	3.5	2.7	4.2	31	3.9	3.9	4.0	0.0	3.1	8.5	5.5
SPAIN, Girona (1990-2013)	14	5.4	6.6	4.2	23	6.5	9.2	3.8	0.0	5.3	12.7	10.5
SPAIN, Granada (1992-2013)	15	4.1	3.5	4.7	25	4.9	5.7	4.0	0.0	6.4	6.9	7.7
SPAIN, Murcia (1991-2009)	18	3.7	4.1	3.3	30	4.5	5.2	3.7	0.7	2.2	9.4	7.2
SPAIN, Navarra (1990-2010)	6	3.1	2.3	3.9	15	5.2	4.8	5.7	1.8	0.0	8.2	12.7
SPAIN, Tarragona (1990-2011)	8	3.2	4.0	2.4	18	5.0	5.7	4.4	0.0	2.8	7.8	11.5
SWEDEN (1990-2011)	109	2.8	2.6	3.0	224	4.3	4.9	3.6	0.3	2.6	6.3	9.4
SWITZERLAND, paediatric (1990-2013)	104	3.2	2.9	3.6	-	-	-	-	0.5	3.4	6.6	-
SWITZERLAND, 7 registries (1990-2013)	44	3.8	3.9	3.7	80	5.2	5.5	4.8	0.8	3.4	8.2	9.9
SWITZERLAND, Geneva (1993-2013)	6	3.7	4.8	2.6	10	4.7	4.6	4.8	0.0	4.1	8.3	8.1
SWITZERLAND, Vaud (1993-2012)	14	5.7	5.6	5.8	21	6.5	7.9	5.1	1.4	2.7	14.8	9.3
SWITZERLAND, Zurich (1993-2013)	18	4.1	4.0	4.3	33	5.7	6.6	4.7	0.7	5.2	7.5	11.0
UKRAINE (2002-2012)	195	2.2	2.1	2.2	403	3.0	3.3	2.6	0.2	1.8	5.2	5.7
UK (2000-2011)	441	2.9	2.9	3.0	785	3.9	4.5	3.4	0.3	2.4	7.1	7.4
UK, England (1990-2013)	715	2.9	2.9	2.9	1283	4.0	4.4	3.5	0.3	2.5	6.9	7.6
UK, England and Wales, paediatric (1991-2010)	629	2.9	2.8	2.9	-	-	-	-	0.2	2.5	6.8	-
UK, Northern Ireland (1993-2013)	22	2.5	3.8	1.2	39	3.4	5.1	1.6	0.0	2.7	5.6	6.3
UK, Scotland (1991-2013)	53	2.3	2.4	2.2	104	3.3	3.9	2.7	0.4	2.3	4.7	6.9
UK, Wales (2000-2011)	19	2.5	2.8	2.3	37	3.7	4.8	2.5	0.0	1.9	6.6	7.7
<b>OCEANIA</b>												
AUSTRALIA (1992-2014)	245	2.5	2.3	2.7	498	3.8	4.4	3.3	0.3	1.7	6.4	8.5
AUSTRALIA, Indigenous (1992-2014)	2	0.8	0.0	1.6	3	1.0	0.7	1.3	0.0	0.0	2.8	1.6
AUSTRALIA, Australian Capital Territory (1992-2012)	4	2.6	4.0	1.3	9	4.2	3.1	5.4	0.0	4.4	4.3	9.6
AUSTRALIA, New South Wales (1992-2012)	67	2.2	2.1	2.2	150	3.7	4.5	2.9	0.3	1.2	5.7	8.9
AUSTRALIA, Queensland (1992-2013)	56	2.9	2.3	3.5	105	4.1	4.5	3.6	0.3	1.7	7.5	8.3
AUSTRALIA, South Australia (1992-2012)	19	2.7	2.3	3.2	36	3.9	4.2	3.5	0.5	1.0	7.6	7.9
AUSTRALIA, Tasmania (1992-2013)	5	1.9	1.5	2.4	10	3.0	2.3	3.7	0.0	0.0	6.6	6.7
AUSTRALIA, Victoria (1992-2014)	64	2.6	2.6	2.6	126	3.8	4.3	3.3	0.1	2.2	6.3	8.1
AUSTRALIA, Western Australia (1992-2014)	29	2.7	2.6	2.9	59	4.2	4.7	3.6	0.3	2.5	6.2	9.2
FRANCE, 2 registries (1990-2013)	10	2.9	3.5	2.3	18	4.1	5.8	2.3	0.0	2.9	6.9	8.1
FRANCE, New Caledonia (1990-2013)	4	2.5	2.5	2.4	10	4.8	6.6	2.9	0.0	4.0	4.1	12.7
NEW ZEALAND (1993-2012)	73	3.7	3.7	3.8	145	5.7	6.0	5.3	0.3	2.7	9.4	12.3
NEW ZEALAND, API (1993-2012)	14	8.7	11.0	6.3	22	10.8	11.5	10.0	1.8	3.9	23.2	18.0
NEW ZEALAND, Maori (1993-2012)	15	3.3	2.6	4.1	31	5.5	5.7	5.4	0.6	2.1	8.2	13.2
NEW ZEALAND, Other (1993-2012)	44	3.3	3.2	3.3	92	5.1	5.4	4.8	0.0	2.8	8.1	11.5
NEW ZEALAND, paediatric (2000-2012)	48	3.7	4.2	3.1	-	-	-	-	0.3	2.9	9.1	-
NEW ZEALAND, paediatric, Maori (2000-2012)	9	2.9	2.5	3.4	-	-	-	-	0.0	3.2	6.6	-
NEW ZEALAND, paediatric, Non-Maori (2000-2012)	39	3.9	4.7	3.0	-	-	-	-	0.4	2.8	9.8	-

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