

Table 6A.B.1.4: Frequency of Cancers of Bones and Joints, by Histology, by Age, United States 2004-2015

Group	Age at Diagnosis														Total (ALL)				
	0 - 9		10 - 19		20 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80+		
	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	
Histology																			
Osteosarcoma	404	6.3%	2,464	38.6%	1,078	16.9%	611	9.6%	560	8.8%	491	7.7%	391	6.1%	214	3.4%	165	2.6%	
Central osteosarcoma	23	0.12	127	0.67	37	0.20	18	0.10	21	0.11	23	0.12	17	0.09	5	0.03	2	0.01	
Chondroblastic osteosarcoma	44	0.23	396	2.10	186	0.99	108	0.57	78	0.41	83	0.44	52	0.28	21	0.11	14	0.07	
Fibroblastic osteosarcoma	12	0.06	84	0.44	65	0.34	46	0.24	58	0.31	38	0.20	33	0.17	10	0.05	7	0.04	
High grade surface osteosarcoma	.	.	17	0.09	4	0.02	7	0.04	6	0.03	1	0.01	2	0.01	3	0.02	4	0.02	
Intracortical osteosarcoma	.	.	1	0.01	.	.	.	.	.	.	.	.	.	.	.	.	1	0.0%
Intraosseous well differentiated osteosarcoma	.	.	2	0.01	2	0.01	.	.	4	0.02	3	0.02	2	0.01	.	.	.	13	0.2%
Osteosarcoma in Paget disease of bone	.	.	1	0.01	.	.	.	.	2	0.01	14	0.07	18	0.10	13	0.07	20	0.11
Osteosarcoma, NOS	292	1.55	1,647	8.72	611	3.24	324	1.72	323	1.71	290	1.54	250	1.32	148	0.78	112	0.59	
Parosteal osteosarcoma	2	0.01	47	0.25	97	0.51	71	0.38	38	0.20	28	0.15	6	0.03	4	0.02	3	0.02	
Periosteal osteosarcoma	2	0.01	30	0.16	28	0.15	12	0.06	9	0.05	4	0.02	2	0.01	2	0.01	.	89	1.4%
Small cell osteosarcoma	7	0.04	24	0.13	11	0.06	8	0.04	7	0.04	3	0.02	1	0.01	1	0.01	.	62	1.0%
Telangiectatic osteosarcoma	22	0.12	88	0.47	37	0.20	17	0.09	14	0.07	4	0.02	8	0.04	7	0.04	3	0.02	
Chondrosarcoma	15	0.2%	175	2.7%	504	7.9%	772	12.1%	1,109	17.4%	1,274	20.0%	1,078	16.9%	647	10.1%	409	6.4%	
Chondrosarcoma, NOS	12	0.06	134	0.71	409	2.17	655	3.47	943	4.99	1,066	5.65	846	4.48	472	2.50	303	1.60	
Clear cell chondrosarcoma	.	.	4	0.02	16	0.08	20	0.11	18	0.10	21	0.11	15	0.08	3	0.02	1	0.01	
Dedifferentiated chondrosarcoma	.	.	.	.	1	0.01	10	0.05	56	0.30	99	0.52	140	0.74	120	0.64	78	0.41
Juxtacortical chondrosarcoma	1	0.01	6	0.03	10	0.05	20	0.11	15	0.08	8	0.04	9	0.05	2	0.01	1	0.01	
Mesenchymal chondrosarcoma	2	0.01	26	0.14	29	0.15	14	0.07	12	0.06	5	0.03	10	0.05	2	0.01	.	100	
Myxoid chondrosarcoma	.	.	5	0.03	39	0.21	53	0.28	65	0.34	75	0.40	58	0.31	48	0.25	26	0.14	
Ewing Sarcoma	434	6.8%	1,380	21.6%	711	11.1%	222	3.5%	148	2.3%	78	1.2%	27	0.4%	17	0.3%	6	0.1%	
Ewing sarcoma	434	2.30	1,380	7.31	711	3.77	222	1.18	148	0.78	78	0.41	27	0.14	17	0.09	6	0.03	
Chordoma	32	0.5%	61	1.0%	115	1.8%	197	3.1%	225	3.5%	328	5.1%	329	5.2%	260	4.1%	131	2.1%	
Chondroid chordoma	4	0.02	3	0.02	10	0.05	20	0.11	7	0.04	16	0.08	17	0.09	7	0.04	2	0.01	
Chordoma, NOS	25	0.13	57	0.30	103	0.55	177	0.94	216	1.14	310	1.64	307	1.63	251	1.33	128	0.68	
Dedifferentiated chordoma	3	0.02	1	0.01	2	0.01	.	.	2	0.01	2	0.01	5	0.03	2	0.01	1	0.01	
Giant Cell Tumor of bone	1	0.0%	32	0.5%	87	1.4%	60	0.9%	44	0.7%	42	0.7%	24	0.4%	9	0.1%	10	0.2%	
Giant cell tumor of bone, malignant	1	0.01	32	0.17	87	0.46	60	0.32	44	0.23	42	0.22	24	0.13	9	0.05	10	0.05	
Sarcoma NOS	4	0.1%	16	0.3%	16	0.3%	27	0.4%	44	0.7%	46	0.7%	42	0.7%	41	0.6%	26	0.4%	
Spindle cell sarcoma	3	0.02	10	0.05	11	0.06	19	0.10	38	0.20	30	0.16	29	0.15	34	0.18	17	0.09	
Undifferentiated sarcoma	1	0.01	6	0.03	5	0.03	8	0.04	6	0.03	16	0.08	13	0.07	7	0.04	9	0.05	
Malignant Fibrous Histiocytoma	1	0.0%	6	0.1%	8	0.1%	21	0.3%	41	0.6%	50	0.8%	42	0.7%	34	0.5%	32	0.5%	
Malignant fibrous histiocytoma	1	0.01	6	0.03	8	0.04	21	0.11	41	0.22	50	0.26	42	0.22	34	0.18	32	0.17	

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Histology												
Angiosarcoma	2	0.0%	4	0.1%	3	0.0%	9	0.1%	20	0.3%	29	0.5%
Hemangiosarcoma	2	0.01	4	0.02	3	0.02	9	0.05	20	0.11	29	0.15
Neoplasm	3	0.0%	14	0.2%	12	0.2%	7	0.1%	13	0.2%	20	0.3%
Neoplasm, malignant	3	0.02	14	0.07	12	0.06	7	0.04	13	0.07	20	0.11
PNET	18	0.3%	51	0.8%	38	0.6%	17	0.3%	10	0.2%	6	0.1%
Peripheral neuroectodermal tumor	8	0.04	24	0.13	11	0.06	7	0.04	4	0.02	2	0.01
Primitive neuroectodermal tumor, NOS	10	0.05	27	0.14	27	0.14	10	0.05	6	0.03	4	0.02
Leiomyosarcoma	.	.	3	0.0%	8	0.1%	12	0.2%	30	0.5%	29	0.5%
Leiomyosarcoma, NOS	.	.	3	0.02	8	0.04	12	0.06	30	0.16	29	0.15
Adamantinoma	4	0.1%	38	0.6%	27	0.4%	15	0.2%	14	0.2%	13	0.2%
Adamantinoma of long bones	4	0.02	38	0.20	27	0.14	15	0.08	14	0.07	13	0.07
Hemangioendothelioma	.	.	4	0.1%	12	0.2%	10	0.2%	19	0.3%	21	0.3%
Epithelioid hemangioendothelioma, malignant	.	.	2	0.01	7	0.04	7	0.04	15	0.08	15	0.08
Hemangioendothelioma, malignant	.	.	2	0.01	5	0.03	3	0.02	4	0.02	6	0.03
Fibrosarcoma	2	0.0%	8	0.1%	9	0.1%	11	0.2%	12	0.2%	21	0.3%
Fibrosarcoma, NOS	2	0.01	8	0.04	9	0.05	11	0.06	12	0.06	21	0.11
Chondroblastoma	.	.	15	0.2%	14	0.2%	4	0.1%	3	0.0%	4	0.1%
Chondroblastoma, malignant	.	.	15	0.08	14	0.07	4	0.02	3	0.02	4	0.02
Total Bone and Joint Cancers	920	4.9%	4,271	22.6%	2,642	14.0%	1,995	10.6%	2,292	12.1%	2,452	13.0%
											2,081	11.0%
											1,345	7.1%
											883	4.7%
											18,881	200.0%

Source: The National Cancer Data Base (NCDB) of the American College of Surgeons (ACS), 2004-2015.