

TABLE 1: Distribution of Diagnoses of 18,677 Benign Soft-Tissue Tumors by Age, Sex, and Anatomic Location

Diagnosis	Total No. (%)	Age Mean/SD (80% Range)	Sex M/F/Unknown	Hand Wrist	Upper Extremity	Proximal Limb	Foot Ankle	Lower Extremity	Hip Buttock	Head Neck	Trunk	Retro- perito- neum	Other
Lipoma and lipoma variants	2999 (16.1)												
Lipoma	1453	48/17 (26-68)	960/484/9	89	102	189	62	233	132	252	332	19	43
Spindle cell lipoma	816	56/14 (37-74)	714/98/4	24	17	150	7	21	32	331	223	1	10
Intramuscular lipoma	253	52/18 (26-73)	143/108/2	1	26	31	2	113	8	22	44	2	4
Angiolipoma	235	41/16 (22-64)	180/50/5	4	104	4	3	28	2	4	76	1	9
Pleomorphic lipoma	207	57/14 (36-74)	143/61/3	9	25	36	4	7	1	83	40	0	2
Perineural fibrolipoma	25	24/15 (9-41)	14/11/0	14	4	0	4	3	0	0	0	0	0
Lipomatosis	10	30/23 (2-53)	3/7/0	0	0	1	3	2	0	0	0	0	0
Fibrous histiocytoma <sup>a</sup>	2385 (12.8)	33/17 (13-57)	1283/1078/24	354	340	234	178	561	88	300	283	0	47
Nodular fasciitis	2116 (11.3)	31/16 (11-51)	1136/967/13	152	612	130	13	288	80	418	391	0	32
Hemangioma (all)	1418 (7.6)												
Hemangioma, not further classified	396	32/21 (7-62)	183/211/2	81	42	12	40	59	21	59	65	6	11
Capillary hemangioma	347	34/23 (1-65)	168/175/4	121	28	10	20	22	4	103	31	2	6
Intramuscular hemangioma	301	29/17 (9-51)	161/140/0	10	44	21	9	76	9	30	88	6	8
Cavernous hemangioma	138	25/23 (<1-60)	66/70/2	21	14	9	8	24	3	22	33	2	2
Epithelioid hemangioma	131	38/15 (21-59)	83/45/3	16	12	3	5	2	5	71	11	2	4
Arteriovenous hemangioma	66	24/19 (3-49)	37/29/0	14	8	1	6	13	2	9	7	5	1
Angiomatosis	39	20/18 (2-49)	16/22/1	3	2	0	12	13	1	1	6	1	0
Fibromatosis (all)	1297 (6.9)												
Superficial	295	41/18 (17-65)	199/94/2	76	0	0	218	0	0	0	1	0	0
Deep	1002	34/18 (13-60)	412/585/5	70	69	69	82	103	70	72	327	76	64
Neurofibroma	973 (5.3)	37/19 (16-66)	529/439/5	92	106	37	58	176	86	178	171	30	39
Schwannoma	895 (5.2)	46/19 (22-72)	504/387/4	77	107	39	81	157	52	97	120	102	63
Giant cell tumor tendon sheath	731 (3.9)	39/18 (18-64)	384/339/8	474	23	1	113	90	4	0	4	0	22
Myxoma <sup>b</sup>	597 (3.2)	52/16 (24-74)	286/306/5	39	74	45	24	219	84	49	53	1	9
Fibroma (all)	489 (2.6)												
Fibroma of tendon sheath	272	35/16 (15-75)	174/97/1	228	5	0	22	9	0	1	1	0	6
Fibroma	193	40/21 (11-67)	113/78/2	39	12	11	22	32	17	30	25	0	5
Nuchal fibroma	24	46/15 (22-62)	18/6/0	0	0	0	0	0	0	15	9	0	0
Granuloma annulare <sup>c</sup>	408 (2.2)	23/21 (2-58)	186/218/4	79	89	0	110	79	9	31	2	0	9
Hemangiopericytoma	384 (2.1)	44/19 (23-70)	159/225/0	11	24	19	10	59	57	73	59	69	3
Granular cell tumor	348 (1.9)	35/16 (15-56)	143/204/1	37	47	29	12	51	31	34	97	2	8
Leiomyoma (all)	311 (1.7)												
Angiomyoma (vascular leiomyoma)	185	51/17 (30-73)	125/60/0	32	24	2	58	55	3	7	1	0	3
Leiomyoma	126	40/20 (14-67)	41/85/0	3	9	3	19	17	27	8	9	13	18
Chondroma <sup>d</sup>	277 (1.5)	44/20 (16-70)	149/125/3	150	8	2	76	17	3	6	11	1	3
Myofibromatosis	178 (1.0)	14/20 (<1-52)	106/68/4	18	13	13	0	27	9	63	30	1	4
Glomus tumor <sup>e</sup>	164 (0.9)	47/20 (19-71)	107/55/2	52	38	3	12	38	7	4	7	1	2
Pigmented villonodular synovitis <sup>f</sup>	161 (0.9)	38/17 (18-59)	93/67/1	22	1	1	52	72	5	1	2	0	5
Lymphangioma (all)	160 (0.9)												
Lymphangioma	151	19/20 (1-50)	67/84/0	12	14	15	5	21	9	21	19	32	3
Lymphangiomatosis	9	28/27 (4-60)	3/6/0	0	2	1	1	2	0	1	1	0	1
Ganglion	159 (0.9)	40/18 (19-65)	88/70/1	84	6	3	17	36	7	2	1	0	3
Proliferative fasciitis	144 (0.8)	54/17 (33-71)	82/62/0	3	39	9	5	53	3	5	27	0	0

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Myositis ossificans (all)	139 (0.7)												
Myositis ossificans	78	35/20 (13–64)	42/36/0	8	9	10	0	27	8	3	12	1	0
Panniculitis ossificans	46	32/15 (16–54)	21/25/0	9	0	0	1	19	3	2	11	0	1
Fibrous pseudotumor	12	32/19 (7–62)	4/8/0	12	0	0	0	0	0	0	0	0	0
Fibrodysplasia oss. progressiva <sup>9</sup>	3	6/4 (2–10)	2/1/0	0	0	1	0	0	0	1	1	0	0
Papillary endothelial hyperplasia	136 (0.7)	41/20 (18–70)	70/64/2	42	12	12	12	8	2	29	15	2	2
Infantile fibromatosis <sup>h</sup>	116 (0.6)	3/5 (<1–8)	69/44/3	25	14	4	21	10	6	19	17	0	0
Lipoblastoma (all)	114 (0.6)												
Lipoblastoma	88	4/4 (1–10)	52/33/3	3	5	8	10	11	13	10	17	5	6
Lipoblastomatosis	26	3/4 (1–5)	11/14/1	0	0	5	0	4	5	2	7	3	0
Neurothekeoma	92 (0.5)	26/16 (9–48)	33/59/0	10	15	6	6	22	2	16	12	0	3
Fibrous hamartoma of infancy	84 (0.4)	1/3 (<1–2)	52/29/3	1	15	23	0	9	14	5	15	1	1
Neuroma	76 (0.4)	38/19 (17–67)	43/32/1	16	5	0	31	6	1	13	1	0	3
Calcifying aponeurotic fibroma	75 (0.4)	16/12 (6–30)	48/27/0	43	3	1	12	7	0	1	8	0	0
Mesothelioma	72 (0.4)	50/18 (26–74)	32/40/0	0	0	0	0	0	0	1	11	18	42
Juvenile xanthogranuloma	71 (0.4)	4/9 (<1–14)	43/27/1	0	7	3	2	11	2	16	25	1	4
Proliferative myositis	57 (0.3)	58/17 (45–78)	26/31/0	0	9	7	0	11	1	12	16	0	1
Paraganglioma	56 (0.3)	47/19 (24–70)	24/31/1	0	0	0	0	1	2	24	0	22	7
Tumoral calcinosis	55 (0.3)	48/24 (12–74)	18/35/2	17	9	4	3	6	9	1	3	1	2
Elastofibroma	51 (0.3)	61/11 (48–74)	27/24/0	0	0	0	0	1	1	0	49	0	0
(Teno)synovial chondromatosis	46 (0.3)	44/17 (25–65)	29/17/0	23	1	2	7	11	0	1	1	0	0
Sclerosing retroperitonitis <sup>i</sup>	44 (0.2)	52/15 (31–65)	30/13/1	0	0	0	0	0	0	0	0	41	3
Hibernoma	41 (0.2)	32/14 (21–50)	20/21/0	0	2	4	0	9	4	5	15	2	0
Ganglioneuroma	37 (0.2)	22/15 (4–44)	17/20/0	0	0	1	0	0	2	4	7	18	5
Other	144 (0.8)												
Mesenchymal lesion, not further classified	577 (3.1)												

<sup>a</sup>Includes dermatofibroma.<sup>b</sup>Includes intramuscular myxoma and juxtaarticular myxoma.<sup>c</sup>Includes necrobiotic nodule.<sup>d</sup>Includes osteochondroma and a single osteoma.<sup>e</sup>Includes glomangioma and glomangiomyoma.<sup>f</sup>Includes diffuse giant cell tumor of tendon sheath.<sup>g</sup>Fibrodysplasia ossificans progressiva.<sup>h</sup>Includes 19 cases of digital fibromatosis (11 hand and eight foot) and two cases of fibromatosis coli.<sup>i</sup>Includes sclerosing mediastinitis.