

Table S1 Extracted data from the 91 previously reported cases of glomus tumor associated with bone and joint

Authors	Side	Case	Gender	Cause	Locations	Size (mm)	Age at onset (years)	Sick time (years)	Pathological types	Follow up	Treatment
<b>Glomus tumors around knees: 37 cases</b>											
Amillo S[3]	R	1	F	None	Intramuscular of distal third of vastus lateralis	15 × 30	20	18	Benign	12 mos	Resection
Auerbach F[5]	L	1	M	None	Subcutaneous tissue of inferior of tibial plateau	35 × 22 × 34	73	2	Benign	-	Resection
Puchala M[62]	R/ R	2	M/ F	Injury to patella / twist the knee	Subcutaneous tissue of medial quadrant of the patella / tibial tuberosity	10 × 10 / 15 × 20	64 / 45	5 / 3	Benign Benign	96 mos 6 mos	Resection
Chaabouni S[17]	NR	1	M	None	Subcutaneous tissue fixed to the patella	60 × 50 × 50	71	Several years	Uncertain malignant potential	14 mos	Resection
Panagiopoulos E[56]	-	1	-	-	Subcutaneous tissue in the medial aspect of the knee	20 × 10 × 20	33	20	Benign	-	Resection
Anley C[4]	R	1	M	NR	Subcutaneous tissue 3 cm proximal to the medial epicondyle	NR	62	6	Benign	3 mos	Resection
Akgun RC[2]	L	1	M	NR	Subcutaneous tissue in front of the patellar tendon	15 × 11 × 20	45	30	Benign	24 mos	Resection
Prabhakar S[60]	R	1	F	NR	In the Hoffa's fat pad	5 × 8	41	1	Benign	15 mos	Resection
Hardy P[32]	R	1	M	None	In the infrapatellar fat pad	10	65	1 week	Benign	-	Resection
Waseem M[77]	R	1	M	None	Subcutaneous tissue of medial condyle of femur	50	70	3	Benign	-	Resection
Okahashi K[53]	L	1	M	None	Subcutaneous tissue of lateral condyle of femur	7 × 6 × 4	51	3	Benign	36 mos	Resection
Frumuseanu B[24]	R	1	M	A fall on his leg	Subcutaneous tissue of medial side of the knee	65 × 35 × 15	10	2 weeks	Benign (Mushroom like)	-	Resection
Goncalves R[29]	L	1	M	None	Subcutaneous tissue of the lateral collateral ligament	NR	43	8	Benign	-	Resection
Clark ML[21]	R/ R/ R/	4	M/ M/ M/	None / None/ NR/	Subcutaneous tissue medial to the patella tendon / subcutaneous	8 × 5/ 15 × 15 × 12/ 4 – 5 /	46/ 64/ 56/	1/ 10months 4/	Benign / Benign / Benign /	- - -	Resection / Resection / Resection /

	NR		M	None	tissue superior and anterior to the tip of the fibula head / in the infrapatellar bursa / subcutaneous tissue of superolateral aspect of patella	20 × 8 × 4	65	NR	Benign	-	Resection
Lancerotto L[43]	L	1	M	NR	Subcutaneous tissue of lateral aspect of the intermediate third of leg	24 × 20 × 20	31	10	Malignant	36 mos	Resection
Bonner TJ[13]	L	1	M	Total knee replacement	Subcutaneous tissue of the anterolateral aspect of knee	10 × 8 × 8	71	1	Benign	18 mos	Resection
Maxey ML[51]	L	1	M	Minor penetrating injuries	Subcutaneous tissue of the pre-patella	55 × 43 × 27	48	1	Benign	30 mos	Resection
Kawanami K[37]	L	1	M	NR	In the popliteal fossa	5 × 5	14	3	Benign	18 mos	Resection
Villescas VV[76]	R	1	M	NR	Subcutaneous tissue anterior to the proximal pole of the patella	41 × 40	38	12	Benign	-	Resection
El Hyaoui H[23]	R/ L/ R	3	M/ F/ M	None/ None/ None	Subcutaneous tissue of pre-patella / forward of the patellar tendon / anterior to the quadriceps tendon	7 × 3 / 4 × 4 / 18 × 10	37/ 39/ 18	1.33/ 1.17/ 4	Benign / Benign / Benign	- / 36 mos / 84 mos /	Resection / Resection / Resection
Mabit C[49]	R	1	M	None	In the patellar Ligament	NR	35	10	Benign	7 mos	Resection
Souza BCE[70]	R	1	M	NR	Subcutaneous tissue of the lower third of thigh	4	45	4.5	Benign	2 mos	Resection
Perks FJ[59]	L	1	F	None	Adherent to the superior lateral genicular nerve (posterior surface of the lateral femoral condyle)	15 × 8	32	5	Benign	-	Resection
Hermann G[34]	L	1	F	An automobile accident	Confluent with the periosteum of the distal one-third of the posterior aspect of femoral cortex	9 × 20	35	0.5	Benign	12 mos	Resection
Gonzalez-Llanos F[30]	L	1	M	None	On the periosteum and cortex of lateral aspect of the femoral metaphysis	15 × 8	48	2	Benign	12 mos	Resection
Chiang ER[19]	R	1	M	None	6 tumors beneath to the gastrocnemius fascia	5 (4 - 40)	31	20	Benign	12 mos RE, 48 mos	Resection / Resection / Resection /

										RE, 60 mos RE, 72 mos RE, 228 mos RE, 276 mos	Resection / Resection
Bahk WJ[7]	R	1	F	Twisted her ankle	In the midshaft of the fibula	40 × 25 × 15	34	1 month	Benign	36 mos	Resection
Kato S[36]	R	1	M	None	In plica synovialis of the lateral side of the lateral femoral condyle	6 × 12 × 16	23	10	Benign	36 mos	Arthroscopic resection
Oztekin HH[55]	L	1	F	None	Lateral to the common peroneal nerve (deep posterior knee capsule)	10 × 15 × 20	9	2 weeks	Benign	18 mos	Resection
Omao M[54]	R	1	NR	None	Subcutaneous tissue behind biceps femoris of middle thigh	NR	37	3	Benign	24 mos	Resection
Our case	R	1	F	None	Confluent with the periosteum of distal third of right femur	10 × 7 × 4	35	7	Benign	4 mos	Resection
<b>Glomus tumors around shoulders: 11 cases</b>											
Abela M[1]	R	1	M	None	Subcutaneous tissue of scapula region	10 × 15	42	10	Benign	2 mos	Resection
Boretto J[14]	R	1	F	A minor injury	Intramuscular of distal deltoid muscle	NR	24	30	Benign	6 mos	Resection
Proietti A[61]	L	1	F	None	Between the trapezius and levator scapulae muscles	20 × 40	29	1	Benign	-	Resection
Thanindra tam P[73]	L	1	M	None	Encasing entire posterior cord of brachial plexus and axillary artery	96 × 112 × 98	47	1	Uncertain malignant potential	24 mos	Resection and Adjuvant radiotherapy
Binesh F[12]	R	1	M	None	Subcutaneous tissue of scapular area	20 × 20	21	1	Malignant	3 mos metastasis in both lungs	Resection, extended local excision + chemotherapy
Sachdev R[66]	R	1	F	None	In the articular cavity of shoulder	30	28	10	Benign	-	Resection
Roberts SN[63]	R	1	M	NR	Deep in the posterior aspect of the shoulder	35 × 30 × 20	47	20	Benign	4 mos	Resection
Geramiza deh B[26]	R	1	F	NR	Supraclavicular region adjacent to periosteum of clavicle	45 × 20	15	10	Benign	6 mos	Resection

Ghaly RF[27]	R	1	M	A fall	Subcutaneous tissue of shoulder and supraclavicular region	9 × 4 × 4	42	20	Benign	24 mos	Resection
Gautam VK[25]	L	1	F	NR	In the acromion process of scapula	-	20	5	Benign	24 mos	Resection
Yoshikawa G[79]	L	1	M	NR	In the tendon of supraspinatus muscle	40 × 20 × 20	15	20	Benign	32 mos	Resection
<b>Glomus tumors around elbows: 4 cases</b>											
Zreik N[81]	R	1	M	None	Subcutaneous tissue of posterior medial aspect of the elbow	20 × 20	75	15	Benign	12 mos	Resection
Tomak Y[74]	L	1	F	None	In the triceps tendon	15 × 10	52	4	Benign	12 mos	Resection
Castro WH[16]	L	1	F	None	Subcutaneous tissue of the dorsolateral part of elbow	70 × 50 × 40	50	30	Benign	-	Resection
Burnier M[15]	L	1	F	Left elbow trauma	In the elbow joint synovium	NR	12	12	Benign	4.5 mos	Resection
<b>Glomus tumors around wrists: 2 cases</b>											
Najd Mazhar F[52]	L	1	F	None	In the vein of the posterior aspect of the wrist	4 × 9	47	1	Benign	12 mos	Resection
Lee SK[46]	R	1	F	None	In branch of the cephalic vein of the volar-radial aspect of mid-forearm	3	37	7	Benign	6 mos	Resection
<b>Glomus tumors around hips: 2 cases</b>											
Hall RM[31]	L	1	M	None	Lying on iliac periosteum	80 × 65 × 40	52	8	Benign	8 mos	Resection
Kobayashi Y[40]	R	1	F	NR	In the lower portion of the sacrum	20	21	1	Benign	-	Resection
<b>Glomus tumors around ankles: 3 cases</b>											
Massari L[50]	R	1	F	NR	In the calcaneus close to the posterior subtalar joint	15	36	2	Benign	Mos	Complete resection
Dehghani M[22]	L	1	M	NR	Confluent with periosteum of posterior aspect of the distal tibia	30 × 20	52	7	Benign, (TIHO)	Mos	Complete resection
Sbai MA[67]	R	1	M	NR	Subcutaneous tissue of posterior upper of ankle	17	64	0.5	Benign	12 mos	Resection
<b>Glomus tumors around vertebral body: 9 cases</b>											

Zhou P[80]	L	1	M	None	In paravertebral soft tissue into the spinal canal at T12-L1 through the intervertebral foramen	50 × 40 × 33	19	20	Benign	15 mos	Partial resection
Payer M[58]	Bi	1	F	NR	An anterior and bilateral hyperintense epidural mass compressing the spinal cord at T4	50	55	0.25	Benign	-	Complete removal and anterolateral stabilization
Liu T[47]	Bi	1	F	NR	In vertebral body of T3 involving the upper thoracic vertebra of levels T2-T4 and extended through the neural foramen at T3 to the chest cavity	50 × 60	44	1	Benign	24 mos RE, 60 mos	Radiotherapy, resection
Bessho Y[11]	L	1	M	NR	Left posterolateral one-third of the vertebral body of T2 and spinal canal	NR	49	NR	Benign	24 mos	Vertebrotoomy of T2 body and reconstruction
Bece F[9]	R	1	F	None	In the right pedicle of T11	15 × 6	72	0.5	Uncertain malignant potential	6 mos	Radiofrequency ablation
Axmann C[6]	R	1	F	NR	Extraforaminal mass growing through the right neural foramen into the spinal canal of lumbar vertebrae 1/2	30 × 20	50	NR	Uncertain malignant potential	12 mos	Resection
Bambakidis NC[8]	L	1	M	NR	Eroding the vertebral body of L3, extending inferiorly posterior to the L4 vertebral body	110 × 110 × 120	43	1	Benign	6 mos	Complete resection and reconstruction of the anterior vertebral column
Kuo CH[42]	Bi	1	M	NR	Epidural intraspinal lesion over T11 level compressing myelopathy	-	26	0.25	Benign	-	Extended local excision
Robinson JC[64]	R	1	F	None	In right pedicle of L1 vertebra	-	41	4	Benign	2 mos	Resection
Glomus tumors around hands: 18 cases											
Terada T[72]	L	1	M	NR	Deeply located in the palm	25 × 24 × 22	71	NR	Malignant	12 mos, RE	Resection, Resection
Serra JM[68]	L	1	M	NR	In the head of the third metacarpal	3 × 3	57	NR	Benign	-	Resection
Lorea P[48]	R	1	F	NR	In the radial half of phalanx distal to interphalangeal joint	NR	11	28	Benign	29 mos	The seventh resection

Valero J[75]	L	1	M	NR	In the 5th metatarsal head	30 × 30 × 4	76	NR	Benign	36 mos	Resection
Kerimoglu U[38]	R	1	F	NR	In the ulnar digital nerve of the fourth finger	NR	9	10 days	Benign	3 mos	Resection
Le Corroller T[45]	L	1	F	None	In middle phalanx of index finger	NR	51	NR	Benign	-	Resection
Wong TC[78]	R	1	F	NR	In distal phalanx of thumb	5	32	4	Benign	12 mos	Resection
Takase K[71]	R	1	M	NR	In distal phalanx of the index finger	NR	23	7	Benign	6 mos	Resection
Lau YY[44]	R	1	M	Caught in a closing door	In distal phalanx of ring finger	Entire distal phalanx	19	1 mo	Benign	24 mos	Entire distal phalanx resection and toe-to-finger transfer
Simmons TJ[69]	L	1	M	None	In distal phalanx of thumb	Entire distal phalanx	28	2	Benign	-	Entire distal phalanx resection
Rosner IA[65]	L	1	M	None	In distal phalanx of middle finger	7 × 4 × 6	70	2	Benign	-	Resection
Kiamanesh Z[39]	L	1	F	None	Erosion distal phalanx of index finger	NR	37	4 mos	Benign	-	Resection
Johnson DL[35]	R	1	M	None	In distal phalanx of right thumb	NR	26	1.5	Benign	36 mos	Resection
Harris WS[33]	L	1	M	NR	Erosion distal phalanx of middle finger	NR	56	3	Benign	1 mo	Resection
Chuang GS[20]	R	1	F	NR	In distal phalanx of 5th finger	3	38	NR	Benign	-	Resection
Chan CW[18]	L	1	F	None	In entire distal phalanx of ring finger	Entire distal phalanx	22	20	Benign	-	Resection
Bernardis C[10]	L/ R	2	M/ M	NR/ NR	Adjacent to the 4th metacarpal / the base of the 3rd metacarpal	34 × 14 × 11/ NR	35 / 20	25 / 8	Benign/ Benign	2 mos/ -	Resection / Resection
<b>Glomus tumors around feet: 5 cases</b>											
Kreel L[41]	L	1	F	Moderate trauma	Adjacent to distal phalanx of the great toe	NR	9	8	Benign	-	Resection
Park EA[57]	R/ L/ R	3	F/ F/ M	NR/ NR/ NR	Surface of the plantar arch and both sub-malleolar areas of foot / multiple nodules at the plantar arch / in the third, fourth, and fifth toe tips	NR/ NR/ NR	18/ 40/ 8	7/ 5/ 0.25	Glomangi- omatosis/ Glomangi- omatosis/ multiple glomus tumors	- / 9 mos RE/ -	Resection / Resection / Resection
Gombos	L	1	M	None	In distal phalanx of first	30 × 25 × 20	20	1	Benign	12 mos	Resection

NA, not available; NR, not record; M, male; F, female; R, right; L, left; RE, recurrence, Mos, months.

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