

S1 Table. Literature review of lung metastatic chondroblastoma cases and survey

Case No.	Source	Age (yr)	Sex	Primary location	Course and treatment	Lung mets onset time	OS after LM ^a
1	Kahn et al. [1]	13	M	Pelvic bone	Multiple curettage and resection for several local recurrence. Lung metastases 9 yr after the first surgery, died 6 yr later.	9 yr	D 6 yr
2	Wellmann [2]	17	M	Scapula	Originally untreated, 10 yr history of growing tumor, forequarter amputation. Pulmonary metastases 14 yr later removed by lobectomy. Alive with respiratory symptoms 1 yr after lobectomy.	14 yr	A 1 yr
3	Riddell et al. [3]	14	F	Proximal tibia	Curettage, midhigh amputation for local recurrence. Lung metastases 2 yr later, one nodule excised, 3 others not. Alive and well with unchanging opacity in left lung 9 yr after metastasectomy.	2.5 yr	A 9 yr
4	Green et al. [4]	13	F	Proximal femur	2 Curettage and wide resection for local recurrence. Lung bilateral metastases 20 mo later. Alive and well with unchanging lung lesions 11 yr after the excision of the metastasis.	20 mo	A 11yr
5	Huvos et al. [5]	16	F	Distal femur	Curettage, local recurrence with lung nodule, treated with curettage and cryosurgery. Multiple bilateral lung nodules excised 4 yr after first diagnosis. Alive and well 6 yr after the thoracotomy.	1.2 yr	A 10 yr
6	Reyes et al. [6]	32	M	Ischium and pubic ramus	Partial resection, hemipelvectomy for local recurrence 10 yr later. 30 yr from diagnosis local recurrence, died with metastasis to nose, scalp and lung.	32 yr	D 3 yr
7	Wirman et al. [7]	38	M	Acromion	2 Resection for local recurrence. Recurrence untreated for 14 yr, then radiation therapy. Pulmonary metastases 33 yr after first surgery. Died 9 mo after the diagnosis of pulmonary metastasis.	33 yr	D 9 mo
8	Kyriakos et al. [8]	32	M	Distal femur	Curettage, local recurrence treated with amputation. Chemotherapy with doxorubicin for bilateral lung metastases, no clinical response.	1 yr	A 5 yr

Multiple pulmonary nodules excision, alive and well 5 yr later.

9	Kyriakos et al. [8]	9	M	Proximal tibia	Curettage and thoracotomy for lung metastasis. Multiple lung metastasis and local recurrence 1 yr after. 2 yr of chemotherapy with vincristine and cyclophosphamide, no response. Curettage for local recurrence. Died 5 yr after diagnosis.	At diagnosis	D 5 yr
10	Kunze et al. [9]	33	M	Pelvis	Emipelvectomy 2 yr after diagnosis. Thoracotomy for multiple bilateral metastases after 12 yr to diagnosis. Alive 18 yr after diagnosis	12 yr	A 6 yr
11	Van Horn et al. [10]	38	M	Distal femur	Curettage, wide resection for local recurrence after 2 yr. Bilateral lung metastases 11 yr after diagnosis (histologically confirmed). Alive and well 9 yr after metastasectomy.	11 yr	A 9 yr
12	Jambhekar et al. [11]	27	F	Talus	Excision, thoracotomy for multiple bilateral lung metastasis in the early post-op. Alive and asymptomatic with residual nodules 4 yr after excision.	1 mo	A 4 yr
13	Elek et al. [12]	12	M	Calcaneus	Curettage, amputation 3 mo later for multiple local recurrence. Lung metastasis treated with cisplatin and doxorubicin, with response. Pulmonary relapse 1 yr later treated surgically. Whole-lung radiotherapy, alive and symptom free 3 yr from diagnosis	3 mo	A 2.5 yr
14	Ostrowski et al. [13]	28	M	Pelvis	Excision, local recurrence with multiple pulmonary metastases 18 yr after surgery. RT on pelvic region and multiagent chemotherapy (no drugs reported). Died 8 mo later.	18 yr	D 8 mo
15	Ramappa et al. [14]	29	M	Pelvis	Multiple resection for local recurrence (3y and 5y after diagnosis). 13 yr after diagnosis metastasis to lung, multiple bone sites. Died 1 yr after the metastasis outspread.	13 yr	D 1 yr
16	Joshi et al. [15]	17	F	Fibula	Resection and metastasectomies for bilateral pulmonary nodules. Paraneoplastic syndrome. En-bloc resection for local recurrence. Alive and well with residual lung nodules 3 yr later.	At diagnosis	A 3 yr

17	Ozkoc et al. [16]	53	M	Scapula	12-yr history of growing tumor, treated with wide resection. Multiple bilateral inoperable metastasis diagnosed 3 yr later. Patient died for lung metastases.	3 yr	D 6 mo
18	Sohn et al. [17]	21	M	L4	Multiple bilateral lung nodules at diagnosis. Embolization and laminectomy on L4, wedge resection to confirm diagnosis. 3-yr FU alive, no sign of recurrence.	At diagnosis	A 3 yr
19	Tamura et al. [18]	21	M	Right ischium	Surgical treatment for primary lesion. Bilateral pneumothorax caused by metastasis 21 mo after surgery. FU unknown.	1.75 yr	Unknown
20	John [19]	54	M	Scapula	Partial scapulectomy, multiple local recurrences. Asymptomatic and slow growing lung metastasis at 15 yr from diagnosis, histologically confirmed. Died at 27 yr from diagnosis of unknown causes.	15 yr	D 12 yr
21	Our case (2020)	16	M	Left humerus	Multiple bilateral lung nodules at diagnosis. Curettage for primary lesion and diagnostic wedge resection on some lung nodules, alive and well ad 2-yr FU with chemotherapy with denosumab	At diagnosis	A 2 yr

FU, follow-up; D, dead; A, alive. ^{a)}Overall survival after metastases onset.