

TABLE E-1 Literature Review on Aneurysmal Bone Cyst of the Cervical Spine in Children

Study (no. of patients)*	Age of Patient	Sex of Patient	Site	Presenting Symptoms	Duration of Symptoms (mo)	Signs†	Stage†	Treatment†	Recurrence (mo)	Local Recurrence Treatment†	Complication	Duration of Follow-up (mo)
Boriani et al. ⁵ (12)												
	15	F	C2	Neck pain, swelling	5	NA	3	ILE and RT	–		–	159
	12	F	C2	Neck pain, swelling, fracture	12	NA	3	ILE and PSF	–	–	–	262
	10	F	C1	Neck pain, swelling	3‡		3	ILE	–	–	–	25
	5	F	C2	Neck pain, swelling	4	NA	3	ILE and RT	–	–	C1-C2 instability required later fusion	28
	11	M	C3	Neck pain	6		2	ILE	5	RT	–	124
	17	F	C6	Neck pain	20	NA	2	ILE	–			46
	17	M	C7	Neck pain	9.5	NA	2	ILE and RT	–			76
	11	M	C5	Neck pain, swelling, fracture	7.5	NA	3	ILE and RT	–	–	–	63
	17	M	C2	Neck pain, swelling	4	NA	3	EMB	–	–	–	36
	7	M	C3	Neck pain	3	NA	3	ILE	–	–	–	44
	12	F	C1	Neck pain, swelling	6	NA	3	ILE, PSF, and ASF	–		–	24
	16	M	C5	Neck pain	6	NA	3	EMB	11	ILE, PSF, and ASF	–	24
Hay et al. ¹⁴ (3)												
	10	F	C7	Neck pain	2	Radiculopathy	NA	ILE	–	–	–	84
	9	F	C3	Neck pain	6	Mass	NA	ILE	–	–	–	24
	15	F	C5-C6	Neck pain, arm pain	1	Torticollis, radiculopathy	NA	RT	–	–	–	12

Beiner et al. ²⁴ (1)	10	F	C4	Neck pain	3	Tender mass	2	En bloc resection, PSF	–	–	–	36
Garg et al. ¹² (1)	7.5	M	C2	Neck pain, headache	12	NA	3	ILE	2	ILE and PSF	–	13.1
Khalil et al. ²⁶ (1)	9	F	C6	Neck pain	12	NA	3	ILE, PSF, and ASF	–	–	–	0.25
Perlmutt et al. ²⁸ (2)												
	12	M	C5	Neck pain, arm pain	3	Radiculopathy C5-C6	3	ILE, PSF, and ASF	–	–	–	18
	13	F	C2	Neck pain	NA	NA	3	ILE, PSF, and ASF	–	–	–	36
de Kleuver et al. ⁷ (2)												
	7	F	C5	NA	3	Radiculopathy	NA	ILE, PSF, and ASF	–	–	–	15
	12	F	C5-C6	NA	4	NA	NA	ILE (anterior only)	–	–	Neurologic deficit	58
Bollini et al. ³⁶ (2)§	14	M	C6	NA	NA	NA	3	ILE, PSF, and ASF	–	–	Residual nodes on the TP	60
MacCarthy et al. ³³ (3)												
	10	F	C4	Neck pain, arm pain, stiffness	8	Radiculopathy C5, limited range of motion	NA	ILE and BG	5	ILE	Kyphosis deformity	36
	13	F	C2	Neck pain, swelling	5	Mass	NA	ILE	–	–	–	108
	10	F	C2	Swelling, stiffness	9	Limited range of motion, mass	NA	ILE	–	–	–	84
Ameli et al. ⁴ (3)												
	11	M	C2	Neck pain, swelling	4	Mass	NA	ILE	–	–	–	–

	15	M	C6	Neck pain, swelling	3	Mass	NA	ILE and RT	–	–	–	12
	14	F	C5	Swelling, paresthesia	8	Mass	NA	Excision	–	–	–	24
Taylor ³⁰ (1)	4	F	C1	Neck pain, stiffness	3	Mass, limited range of motion	NA	RT	–	–	–	96
Terhune ³¹ (1)	7	F	C5	Pathologic fracture, paraplegia	6	Limited range of motion, radiculopathy	NA	Open biopsy and RT			Hemiplegia, rigid kyphosis	65
Giddings et al. ²⁵ (1)	11	M	C3	Neck pain, swelling	10	Mass	2	ILE	–	–	–	6
Poolos and White ²⁹ (1)	14	M	C3	Neck pain, paresthesia	0	Mass radiculopathy	NA	ILE and ASF and halo traction	8	ILE and PSF	–	12
Gruszkiewicz et al. ³⁷ (1)	3	M	C1	Torticollis	1.5	Limited range of motion	NA	ILE	–	–	–	–
Pennekamp et al. ²⁷ (1)	16	F	C1	Neck pain, swelling	6	Mass	3	ILE and RT	–	–	–	12

*Total number of children in the series with aneurysmal bone cyst of the cervical spine. †ILE = intralesional excision and curettage, RT = radiation therapy, PSF = posterior spinal fusion, EMB = selective arterial embolization, ASF = anterior spinal fusion, BG = bone-grafting, TP = transverse processes, and NA = not available. ‡Presentation as local recurrent aneurysmal bone cyst. §Limited information available for the second patient.