

Appendix 1 Literature review of pediatric SSEH reported cases from January 2000 to December 2023

No.	Author (year)	Sex	Age	Clinical presentation	Etiology	Location	Treatment	Outcome
1	van Heesewijk and Casparie [2000] (1)	F	4 y	Right-sided torticollis, neck pain, left arm paresis	I	C2–C6 posterior	C1–C6 LNec	CR
2	Varsha <i>et al.</i> [2000] (2)	M	10 y	Neck stiffness and pain, tetraparesis	HA	C3–C7 anterior	FVIII	PR
3	Chang <i>et al.</i> [2002] (3)	F	5 y	Paraparesis, urinary retention	I	T6–T8 left posterior	T6–T8 LNec	CR
4	Ravid <i>et al.</i> [2002] (4)	F	10 y	Left arm pain, left hand weakness	I	C6–T1 left posterior	LNec	CR
5	Chuang <i>et al.</i> [2003] (5)	F	4 y	Upper thoracic back pain	V	C4–T2 posterior	Emb and C4–T6 LNec	PR
		M	4 y	Upper thoracic back pain	V	C7–T3 anterior	C7–T2 LNec	CR
6	Rosenberg <i>et al.</i> [2003] (6)	F	14 y	Paraparesis, back pain	I	T3–T5 posterolateral	T3–T4 HLNec	CR
7	Blount <i>et al.</i> [2004] (7)	M	Neonate	Tetraplegia	I	C5–mid thoracic spine	C4–T5 LNot	NR
8	Çakir <i>et al.</i> [2004] (8)	F	9 y	Paraparesis	I	T2–T8 right posterior	LNec	CR
9	Iwamuro <i>et al.</i> [2004] (9)	M	7 m	Irritability and right abdominal distention, left leg weakness	HB	T1–L1 posterior	FIX	CR
10	Kirwan <i>et al.</i> [2004] (10)	M	10 y	Neck pain and torticollis, left upper extremity weakness	V	C5–T1 left posterior	Surgical excision	CR
11	Liao <i>et al.</i> [2004] (11)	M	2 y	Tetraplegia, tonic head turning to the left	I	C2–T4 posterior	LNec	CR
		F	6 m	Paraplegia	I	C7–T7 posterior	Surgical evacuation	NR
12	Sano <i>et al.</i> [2004] (12)	F	6 y	Severe back pain, paraparesis	I	T1–T3 right posterior	T1–T3 LNop	CR
13	Moiyadi <i>et al.</i> [2005] (13)	M	5 y	Neck pain, tetraparesis	V	C3–T4 posterior	C2–C6 LNot	NR
14	Balkan <i>et al.</i> [2006] (14)	M	17 y	Neck and back pain, paraparesis	HB	C6–T12 (C6–T5 anterior, T5–T12 posterior)	FIX	CR
15	Cuvelier <i>et al.</i> [2006] (15)	M	10 m	Irritability, torticollis, upper extremity paralysis	HA	C2–T8 posterior	C5–C7, T2–T4, T6–T8 LNec and FVIII	CR
16	Pai and Maiya [2006] (16)	M	15 m	Tetraparesis	I	C4–T3 posterior	C4–T3 LNot	CR
17	Taylor <i>et al.</i> [2006] (17)	M	8 y	Back pain radiating to both legs	Co	T12–L2 posterior	Cons	CR
18	Tamura <i>et al.</i> [2006] (18)	M	5 y	Severe neck pain, paresthesia, numbness of the left forearm and hand, urinary retention	HA	C7–T1 right side	LNec and FVIII	CR
19	Abram <i>et al.</i> [2007] (19)	F	10 y	Paraplegia, lower extremity numbness, back pain	I	C7–T1 posterior	LNec	NR
20	Bisson <i>et al.</i> [2007] (20)	M	7 y	Neck and arm pain	HB	C2–T3 anterior	FIX	CR
21	Fok <i>et al.</i> [2007] (21)	M	15 m	Tetraparesis	I	C3–T8 posterior	C3–T8 HLNec	CR
22	Kubota and Miyajima [2007] (22)	M	4 m	Irritability and incomplete left limb paralysis	HA	C4–S1 posterior	FVIII	CR
23	Lee <i>et al.</i> [2007] (23)	M	4 m	Irritability, neck stiffness, tetraparesis	I	C4–T4 posterior	C4–T4 LNec	CR
24	Poonai <i>et al.</i> [2007] (24)	F	11 m	Irritability, regression of gross motor milestone, lower limb clonus	I	C4–T3 posterior	C4–T3 LNop	PR
25	Heer <i>et al.</i> [2008] (25)	M	12 y	Neck pain, tetraparesis	HA	C4–C6 posterior	C5–C7 LNec and FVIII	NR
26	Kalina <i>et al.</i> [2008] (26)	M	7 m	Irritable, not able to sit up by himself and hold his balance	HA	C2–L4 posterior	FVIII	CR
27	Lim <i>et al.</i> [2008] (27)	F	20 m	Neck pain, paraplegia	I	C7–T4 posterior	T2–T3 LNot	PR
28	Ramelli <i>et al.</i> [2008] (28)	F	7 m	Paraplegia	I	C6–T7 posterior	LNec	NR
		M	13.5 y	Severe cervicothoracic pain, tetraplegia	I	C5–T2 posterior	LNec	PR
29	Kitagawa <i>et al.</i> [2009] (29)	F	12 y	Upper thoracic back pain, paraplegia	V	T1–T3 posterior	T1–T3 LNec and Emb	PR
30	Morsing <i>et al.</i> [2009] (30)	M	13 m	Irritability, dysphoria, Horner syndrome	HA	C1–Sacrum posterior	FVIII	CR

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31	Rois <i>et al.</i> [2009] (31)	M	13 y	Severe midback pain, paraparesis	HA	T5–T6 posterior	FVIII and T5–T6 HLNec	CR
32	Hosoki <i>et al.</i> [2010] (32)	M	11 m	Reluctance to stand and walk, irritable	I	T9–L1 posterior	T9–L1 HLNec	CR
33	Johnstone <i>et al.</i> [2010] (33)	M	9 y	Upper thoracic back pain, paraparesis	V	T1–T5 posterior	T3 HLNec and Emb	CR
34	Kiehna <i>et al.</i> [2010] (34)	M	5 m	Irritability and meningismus	HA	C1–Cauda equina	FVIII	CR
35	Lo [2010] (35)	M	11 y	Paraplegia and anesthesia in lower body	V	T3–T5	LNec	PR
36	Rathi and Rathi [2010] (36)	M	6 y	Paraplegia	V	C7–T4 anterior	LNec	PR
		M	3 m	Tetraparesis	HA	C2–T5 posterior	FVIII	CR
37	Tagaya <i>et al.</i> [2010] (37)	M	4 m	Irritability, left side body paralysis	HA	C2–L2 posterior	FVIII	CR
38	Borkar <i>et al.</i> [2011] (38)	M	5 y	Acute pain over the lumbosacral region, paraparesis	HB	L4–S2 anterior	FIX	CR
39	Brown <i>et al.</i> [2011] (39)	M	3 m	Abdominal distension, irritability	HA	C6–T8 posterior	FVIII	CR
40	Cabral <i>et al.</i> [2011] (40)	M	9 y	Neck pain, paraparesis	V	C7–T4 posterior	C7–T4 LNec	CR
41	Min <i>et al.</i> [2011] (41)	M	8 m	Irritability, paraparesis	V	C7–T3 posterior	C7–T3 LNec and resection	CR
42	Nayak <i>et al.</i> [2011] (42)	F	12 y	Paraplegia, urinary retention	I	C7–T3 posterior	LNec	PR
43	Zhong <i>et al.</i> [2011] (43)	F	18 y	Sensorimotor deficit, sphincter deficits	I	C4–C7 posterior	HLNec	CR
		F	10 y	Sensorimotor deficit, sphincter deficits	I	C1–T2 anterior	LNec	D
		M	16 y	Sensorimotor deficit, sphincter deficits	I	T4–T11 posterior	Cons	PR
44	Arya <i>et al.</i> [2012] (44)	F	12 m	Irritability, tetraparesis	I	C2–C5 posterior	Cons	PR
45	Azumagawa <i>et al.</i> [2012] (45)	M	12 y	Severe back pain and extremities, numbness in lower legs	I	C4–T4 posterior	Cons	CR
46	Abbas <i>et al.</i> [2013] (46)	M	5 m	Symmetrical upper limb weakness	I	C4–C7 anterior	N/A	N/A
47	Doymaz and Schneider [2013] (47)	M	14 y	Tetraplegia	Co	C1–T2 anterior	C3–C6 HLNec	PR
48	Jumani <i>et al.</i> [2013] (48)	M	2 y	Neck pain, right hemiparesis, unsteady gait	I	C4–C7 posterior	LNec	CR
49	Nirupam <i>et al.</i> [2013] (49)	M	9 y	Abdominal pain in periumbilical region, paraparesis	HB	C6–T12 posterior	FIX and LNec	D
50	Paraskevopoulos <i>et al.</i> [2013] (50)	M	8 y	Paraplegia	V	C6–T2 posterior	C7–T3 LNop and resection	PR
51	Schoonjans <i>et al.</i> [2013] (51)	M	8 m	Irritability, tetraparesis	I	C5–L1 posterior	LNec	PR
52	Iizuka <i>et al.</i> [2014] (52)	M	5 y	Severe neck and back pain, tetraplegia	HA	C2–T1 anterior	LNop and FVIII	CR
53	Per <i>et al.</i> [2014] (53)	M	5 y	Neck and back pain, left-sided torticollis	HA	C3–T2 anterior	FVIII	CR
54	Yildiz <i>et al.</i> [2014] (54)	F	8 y	Acute back pain, paraparesis, urinary incontinence	I	T2–T4 posterior	Surgery	CR
55	Sandvik <i>et al.</i> [2015] (55)	M	1 y	Paraplegia	V	C6–T7 posterior	LNec	CR
56	Babayev and Ekşi [2016] (56)	F	18 y	Paraparesis	I	T2–T3 posterior	T2 HLNec and T3 Lnc	CR
57	Lee <i>et al.</i> [2016] (57)	M	32 m	Paraparesis	I	C4–T3 posterior	C7–T1 HLNec	CR
58	Oymak <i>et al.</i> [2016] (58)	M	10 m	Irritability, torticollis, upper extremity paresis	HA	C1–Cauda equina posterior	FVIII	CR
59	Ratre <i>et al.</i> [2016] (59)	M	14 y	Back pain, urinary retention, paraplegia	I	T1–T6 anterior	T4–T5 LNec	NR
60	Sivakumaran <i>et al.</i> [2016] (60)	F	8 y	Severe neck pain, tetraparesis, urinary retention	V	C4–T1 posterior	C5–C7 LNop and resection	CR
		M	13 y	Interscapular pain, paraplegia, urinary retention	V	C7–T5 posterior	T1–T5 LNop and resection	PR

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61	Smeets <i>et al.</i> [2016] (61)	M	2 y	Back pain, progressive weakness of trunk and legs	I	C5–T8 posterior	LNec	PR
		M	1,5 y	Ataxic gait pattern, frequent fall, right-sided miosis and ptosis	I	C3–T2 posterior	LNec	CR
62	Raasck <i>et al.</i> [2017] (62)	F	11 y	Severe neck pain, tetraplegia	I	C3–T1	Cons	CR
63	Thora <i>et al.</i> [2017] (63)	N/A	16 y	Paraplegia	HA	T7–T11	FVIII	CR
		N/A	12 y	Paraplegia	HA	T5–T6	FVIII	CR
		N/A	10 y	Paraparesis	HA	C7–T3	FVIII	CR
64	Jang <i>et al.</i> [2018] (64)	M	8 m	Torticollis, irritability	HA	C2–S1 posterior	FVIII	CR
		M	14 y	Tetraparesis, neck pain	HA	C3–C6 posterior	FVIII and C3–C6 LNec	NR
		M	18 y	Neck pain and limitation of neck motion	HA	C2–T6 posterior	FVIII	CR
65	Mukai <i>et al.</i> [2018] (65)	M	17 m	Paraplegia	I	C7–T5 posterior	T2 HLNec	CR
66	Zhang <i>et al.</i> [2018] (66)	F	17 y	Neck pain	I	C4–C6 posterior	Cons	CR
67	Ayres Pereira Harry Leite <i>et al.</i> [2019] (67)	F	13 y	Neck pain, left forearm and hand weakness	I	C4–T1 posterior	C3–C7 LNop	CR
68	de Amoreira Gepp and Quiroga [2019] (68)	F	9 y	Neck pain, paraparesis	I	C5–T3 posterior	LNop	CR
69	Kondo <i>et al.</i> [2019] (69)	F	6 y	Pain in the lower extremities, paraplegia	I	C7–T3 posterior	LNec	NR
70	Uei <i>et al.</i> [2019] (70)	F	6 m	Tumor mass on the back, paraparesis	I	T10–L3 posterior	T10–L3 HLNec	CR
71	Carlhan-Ledermann <i>et al.</i> [2020] (71)	F	7 y	Neck pain, tetraparesis	V	C2–T1 posterior	C4–C6 HLNec	CR
		M	4,5 y	Neck pain, torticollis	I	C3–C5 posterior	Cons	CR
72	Cheng <i>et al.</i> [2020] (72)	F	8 y	Abdominal pain, paraplegia	I	T6–T7 posterior	LNec	CR
73	Kim <i>et al.</i> [2020] (73)	M	11 m	Irritable, paraparesis	I	C6–T6 posterior	C7–T6 LNec	NR
74	Morimoto <i>et al.</i> [2020] (74)	F	13 y	Back pain, tetraparesis	I	C6–T1 anterior and posterior	HLNec	CR
75	Acharya <i>et al.</i> [2021] (75)	M	12 y	Neck pain	HA	C2–T8 posterior	FVIII	CR
76	Alkhouraji <i>et al.</i> [2021] (76)	F	12 y	Neck pain, weakness in left upper limb and both lower limbs	I	C4–C6 posterior	C4–C6 LNec	CR
77	Niimi <i>et al.</i> [2021] (77)	F	5 y	Back pain, paraparesis	V	T2–T4 posterior	Emb	CR
78	Villarreal- Martínez <i>et al.</i> [2021] (78)	M	4 y	Neck pain, tetraparesis	HA	C4–T4 posterior	FVIII	CR
79	Kwasnicki <i>et al.</i> [2022] (79)	F	11 m	Paraparesis, anisocoria and right eye ptosis (Horner syndrome)	I	C7–T3 posterior	C7–T3 LNop	CR
80	Romagna <i>et al.</i> [2022] (80)	M	3 y	Neck pain, tetraparesis	Co	C3–T3 anterior	C3–T3 LNec	PR
81	Scalia <i>et al.</i> [2023] (81)	M	1 y	Tetraparesis	HA	C3–L1 posterior	C5–T10 HLNec and FVIII	CR
82	Present case [2023]	M	14 y	Neck pain, right hemiparesis	I	C4–C7 posterior	C5–C6 LNop	CR

F, female; M, male; m, month; y, year; I, idiopathic; HA, hemophilia A; HB, hemophilia B; V, vascular malformation; Co, coagulopathy; C, cervical; T, thoracic; L, lumbar; S, sacral; LNec, laminectomy; HLNec, hemilaminectomy; LNop, laminoplasty; LNot, laminotomy; Emb, embolization; Cons, conservative; FVIII, factor VIII replacement; FIX, factor IX replacement; CR, complete recovery; PR, partial recovery; NR, no recovery; D, death; N/A, not available.

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