

Supplementary Table 1: Presenting symptoms and location of CNS lesion. Summary of patients with documented symptoms at time of diagnosis (pain, neurologic symptoms) and description of their CNS involvement (Th: thoracic, C: cervical, L: lumbar).

Patient	Description of symptoms	Location of the CNS lesion
1 (2 lesions)	Sensations of coldness in the upper extremities; temperature differences between right and left hand; dysesthesia of both arms and muscle weakness. Increasing numbness (belt-shaped) of the left abdomen.	Th1-3: Paraspinal soft tissue mass (left>right) extending through the neuroforamina into the spinal canal with adjacent bone destruction and infiltration of the pleural space. Th6: Left-sided paraspinal soft tissue mass extending through the neuroforamina and affecting the pleural space.
2 (2 lesions)	Pain in lumbar region, buttocks and legs.	Th8: Paraspinal soft tissue mass on the right side, extending through the neuroforamina into the spinal canal with upward growth until Th6. Th12: Paraspinal soft tissue mass adjacent to the collapsed vertebra extending through the left neuroforamina into the spinal canal.
3 (1 lesion)	Pain between both scapulae with dysesthesia of the posterior part of the left arm.	Th1-4: Paraspinal soft tissue mass on the left side, which extends through the neuroforamina.
4 (1 lesion)	Pain from the neck radiating into the right arm.	C7-Th2: Paraspinal soft tissue mass on the right side, extending through the right neuroforamina into the spinal canal.
5 (1 lesion)	Back pain.	Th7: Paraspinal soft tissue mass on the right side, extending through the neuroforamina into the spinal canal.
6 (1 lesion)	Neurologic symptoms in the right leg.	Th9-L1: Paraspinal soft tissue mass on both sides, extending through the neuroforamina of Th9-11 into the spinal canal, and displacing the spinal cord.
7 (1 lesion)	Worsening back pain and thoracic pain causing dyspnea and impacting sleep.	Th5-6: Paraspinal soft tissue mass on both sides, extending through the neuroforamina into the spinal canal, and displacing the spinal cord.
8 (1 lesion)	Back pain and thoracic pain radiating into the right arm, causing dyspnea.	C6: Paraspinal soft tissue mass on the right side, extending through the neuroforamen into the spinal canal, does not reach the spinal canal.
9	Back pain affecting the right hemithorax and the right flank.	Th12-L1: Paraspinal soft tissue mass on the right side, extending through the neuroforamina, but does not reach the spinal canal.

(1 lesion)		
10 (1 lesion)	Back pain and weakness of the left leg.	Sacral soft tissue mass on the left side, which infiltrates the neuroforamina and the adjacent muscles.
11 (2 lesions)	Back pain.	Th10-11: Soft tissue mass coming from both thoracic vertebra, which infiltrates the neuroforamina on the left side as well as the spinal canal. Sacral bone: Mass from the sacral bone, which extends into the neuroforamina on the right side and grows into the spinal canal.

Supplementary Table 2: Literature Review

Number	First author	Date published	Age (years)	Sex	Clinical symptoms description	Length of symptoms prior to presentation (months)	Pain (0=no, 1=yes)	Neurologic symptoms (0=no, 1=yes)	Location of tumour	Pathology	Stage (if given)	Surgical intervention for management - does not include biopsy for diagnosis (0=no, 1=yes)	Chemotherapy (0=no, 1=yes, 999=unknown)	Chemotherapy - specify	Radiation (0=no, 1=yes, 999=unknown)	Other notes
1	Abu-Bonsrah	2015	29	F	1 month lower back pain, lower extremity numbness, weakness	1	1	1	T10 vertebral body, epidural soft tissue mass	Classical		1	1	ABVD		

2	Al-Khaya	2006	42	F	5 months bilateral hand weakness, parasthesias	5	0	1	left paraspinal mass with C7-T1 epidural extension, no clear bony involvement	Nodular sclerosing		0	1	ABVD x 4	1	
3	Baron	2014	8	M	1 year of back pain, difficulty walking - progressed to sensory loss, urinary/fecal incontinence	12	1	1	Epidural space T4-6, T8-10	Nodular sclerosing		1	999		999	Transferred care after surgery
4	Bayra	2021	9	M	abdo/back pain, urinary incontinence, weight loss x 6 months	6	1	1	spinal canal at T12, L5 and S1	Classic	IV B	0	1	2x OEPA (vinc, etoposide, pred, adriamycin), 4 x COPP (cyclophos, vinc, procarbazine, prednisone)	1	
5	Caga	2006	39	M	lumbar pain x 2 months	2	1	0	L3 vertebral body + epidural mass, involvement of C3	lymphocyte predominant	IV	1	0	1	gallium scan	

6	Citow	2001	54	F	upper back pain x 2 years, lower extremity weakness / numbness, weight loss	24	1	1	T4-5 vertebral bodies with surrounding soft tissue component, spinal cord compression		999	1	0			1	No PET scan (gallium scan)
7	Clark	1992	53	F	2 month hx of severe headaches, weakness of right arm/leg, gait difficulties	2	1	1	4x2cm mass in right cerebellar hemisphere	nodular sclerosing							1
8	Ghedira	2018	40	M	constipation, numbness of perineum and left foot (x2 weeks), lumbar pain, weight loss, pruritis, night sweats (x 1 yr)	12	1	1	T1, T2, T10, L1, L3, L5, S1 involvement with epidural mass around the conus at L1-L2 and second epidural mass at L3-L4		999	1	1	999	999		
9	Gupta	2009	11	M	pain in lower limbs, back x 1 year, fever, paresthesias x 1 month	12	1	1	epidural mass, collapse of T7	mixed cellularity	IV	0	1	8	ABVD x	1	
10	Hashi	2018										1					

11	Hashi	2018										0			
12	Higgins	1995	46	M	back pain, constipation, unstead gait, weakness/numbness in lower extremities x 4 mos	4	1	1	intraspinal tumor extending from C5-T8, displacing spinal cord	nodular sclerosing		0	MOPP-1	ABV x 8	1
13	Hirmiz	2004	38	M	left neck swelling, night sweats x 3 months - presented with GTC seizure	3	0	1	2.8cm mass arising from meninges posterior to right frontal lobe - meningeal enhancement	nodular sclerosing	IV		1	ABVD x 6	1
14	Johnson	2000	55	F	1 week hx of worsening headaches, difficulty walking	0.25	1	1	2.3 x 3.2 x 3.2 cm mass in posterior fossa	nodular sclerosing					1
15	Kasper	2012	88	F	upper back pain x several months, difficulty walking, lower extremity weakness		1	1	epidural lesion from T2-T4 with involvement of T4 vertebral body	lymphocyte-deplete		1	0		1

16	Klein	1999	54	M	visual disturbance, headaches x 7 months, right hemiparesis, epileptic seizure	7	1	1	2 x 1.5 x 1.5cm occipital mass	nodular sclerosing					1	5	COPP x	1
17	Moridaira	1994	56	M	1 week history of paraparesis, urinary disturbance	0.25	0	1	compression of spinal cord at T10, epidural mass between T8-10, involvement of T9			0		1	4	C-MOPP/ABVD x		0
18	Perry	1993	30	F					T5									1
19	Perry	1993	42	F					C8									1
20	Salomone	2021	13	F	back pain, decreased ability to walk x 3 months	3	1	1	Epidural mass from T12-L1 with compression / displacement of spinal cord, destruction of T12 vertebrae	nodular sclerosing	IV	0	1		2x OEPA, 4x DECOP DAC-21		1	

21	Sama dian	2009	12	M	low back pain, lower extremity weakness / numbness x 1 month	1	1	1	epidural tumour at L1-L3 - compressed/di splaced dural sac	lymphocyte predominant		1	1	6	ABVD x	1	
22	Toprak	1997	20	M	5 month hx of back pain radiating down left leg	5	1	0	bony lesions with the sacrum, lumbar epidural mass between L4 and S1 - extension through the spinal foramina towards the spinal canal	nodular sclerosing		0	1	1	c-MOPP-ABVD		
23	Toto	2016	12	F	neck pain x 1 month, radiating down arms, developed urinary retention, parasthesias in extremities	1	1	1	intraspinal mass in lower cervical region C7-T1, cord compression C3-C7, multiple vertebral body lesions	classical		1	1	1	not specified	1	
24	Uehara	2013	28	F	5 months upper back pain, weakness in lower extremities,	5	1	1	T1-T3 epidural mass, soft-tissue swelling, spinal cord compression,	classical		1	1	1	12 x ABVD	1	gallium scan

				numbness x 1 month			osteolytic changes of vertebral bodies in T2, T3								
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