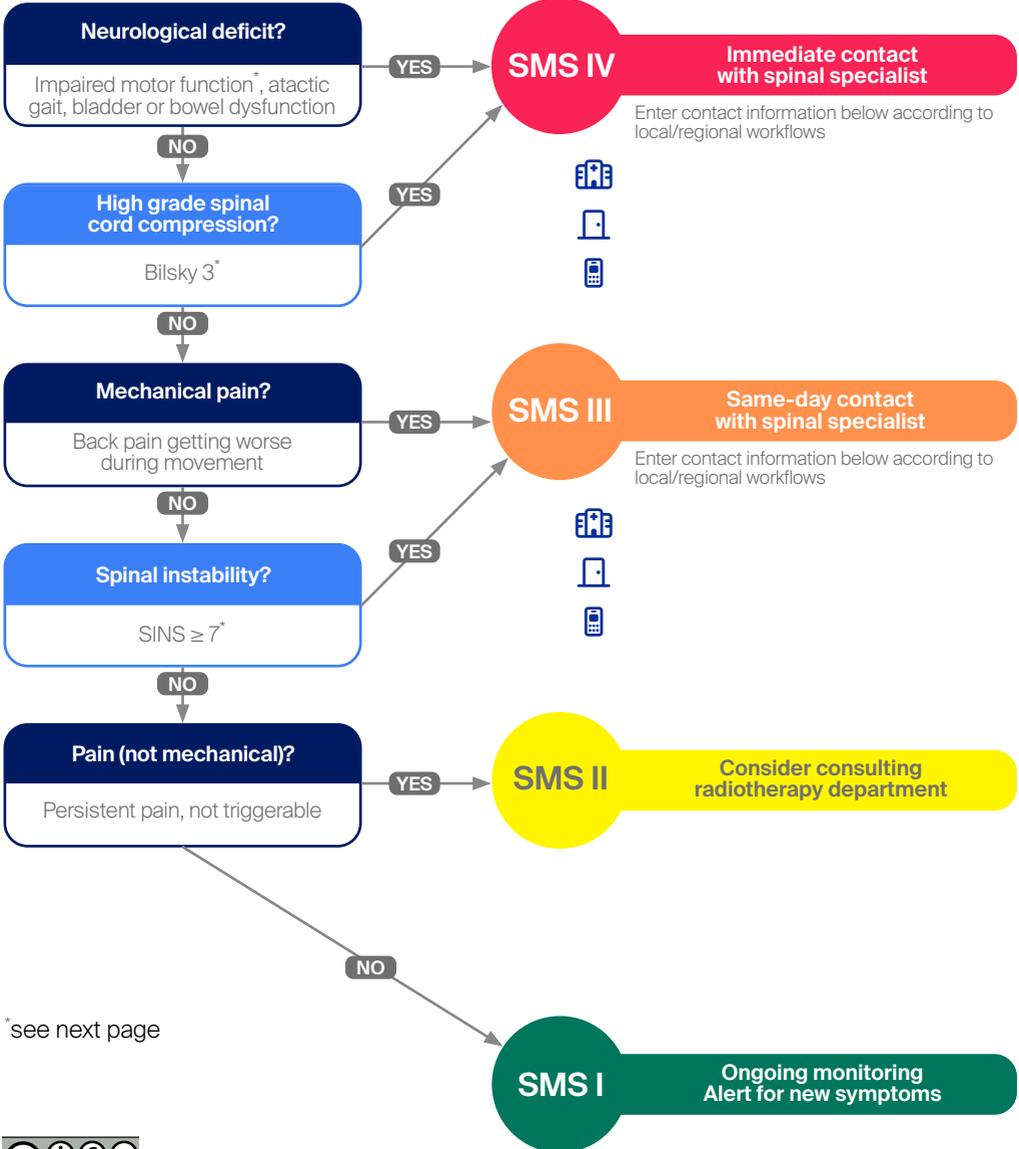


AO Spinal Metastasis Staging (SMS) Pocket Map

For patients pursuing active treatment



* see next page



American Spinal Injury Association (ASIA) Impairment Scale ¹

A	The impairment is complete. There is no motor or sensory function left below the level of injury.
B	The impairment is incomplete. Sensory function, but not motor function, is preserved below the neurologic level (the first normal level above the level of injury) and some sensation is preserved in the sacral segments S4 and S5.
C	The impairment is incomplete. Motor function is preserved below the neurologic level, but more than half of the key muscles below the neurologic level have a muscle grade less than 3 (i.e., they are not strong enough to move against gravity).
D	The impairment is incomplete. Motor function is preserved below the neurologic level, and at least half of the key muscles below the neurologic level have a muscle grade of 3 or more (i.e., the joints can be moved against gravity).
E	The patient's functions are normal. All motor and sensory functions are unhindered.

Bilsky grading Best assessed with an MRI ²



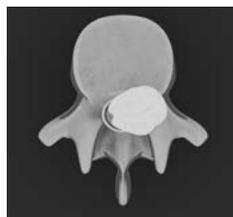
Grade 0: bone-only disease



Grade 1: epidural extension without cord compression (1b shown)



Grade 2: spinal cord compression, with cerebrospinal fluid (CSF) visible around the cord



Grade 3: spinal cord compression no CSF visible around the cord

Spinal neoplastic instability score (SINS) ³

Element of SINS	SCORE	Element of SINS	SCORE
Location		Radiographic spinal alignment	
Junctional (occiput-C2, C7-T2, T11-L1, L5-S1)	3	Subluxation/translation present	4
Mobile spine (C3-C6, L2-L4)	2	De novo deformity (kyphosis/scoliosis)	2
Semi-rigid (T3-T10)	1	Normal alignment	0
Rigid (S2-S5)	0	Vertebral collapse	
Pain relief with recumbency and/or pain with movement/loading of the spine		> 50% collapse	3
Yes	3	< 50% collapse	2
No (occasional pain but not mechanical)	1	No collapse with > 50% body involved	1
Pain free lesion	0	None of the above	0
Bone lesion		Posterolateral involvement of the spinal elements (facet, pedicle of CV joint fracture or replacement with tumor)	
Lytic	2	Bilateral	3
Mixed (lytic/blastic)	1	Unilateral	1
Blastic	0	None of the above	0

NOTE: the total SINS score is the sum of all SINS elements



References and remarks

- Hematological tumors/metastases are different, discuss with center/specialist who has experience in this field
- If unsure about SINS or Bilsky, please consult your local radiologist
- See QR code for minimum referral information, examples, and support with pain types, ASIA, SINS, and Bilsky

¹doi:10.46292/sci2702-1 ²doi:10.3171/2010.3.SPINE09459 ³doi:10.1097/BRS.0b013e3181e16ae2