Spine Trauma Survey

Presentation of clinical vignette and questions

A 23 year-old male with a L1 burst fracture was presented to the emergency department of your centre, following a traffic accident occurred at 30 minutes ago, around midnight. Patient was conscious and complaining about back pain. Physical examination revealed paraesthesia in both lower extremities with normal motor and sphincter functions. You can find the sagittal and axial computed tomography images of the patient below.



1. Would you obtain an emergent MRI scan?

- Yes, probably
- 🔵 I don't know
- No, probably not
- No, definitely not

2. Would you perform surgery on this patient?

- Yes, probably
- I don't know
- No, probably not
- No, definitely not

3. If you decide that surgery is required, would you perform the procedure at night?

- Yes, probably
- 🕥 I don't know
- No, probably not
- No, definitely not

4. If you decide that surgery is required, would you initially use a posterior approach?

- Yes, probably
- I don't know
- No, probably not
- No, definitely not

If you are certain that you would not initially use a posterior approach (No, definitely not is your answer to question 4), some questions will be skipped and you will be directed to infection section.

Spine Trauma Survey				
Treatment Choices				
5. If you were to choose an initial posterior approach	n, would you perform surgical release?			
Yes, probably				
I don't know				
No, probably not				
No, definitely not				
6. If you were to choose an initial posterior approach, would you perform percutaneous fixation?				
Yes, probably				
I don't know				
No, probably not				
No, definitely not				
7. If you were to choose an initial posterior approach, would you seek to obtain fusion via bone grafting (with any type of bone material)?				
Yes, probably				
I don't know				
No, probably not				
No, definitely not				
8. If you were to choose an initial posterior approach, into which vertebrae would you implant the fixation material?				
○ T10	○ L2			
○ T11	☐ L3			
○ T12	○ L4			
L1 (fractured vertebra)	Others (please specify)			

9. If you were to choose an initial posterior approach, would you perform a complementary anterior step?
Yes, probably
I don't know
No, probably not
No, definitely not
10. If you were to perform surgery, would you prescribe post-operative bracing?
Yes, probably
I don't know
No, probably not
No, definitely not
11. The patient is doing well 3 months after surgery. For how long after surgery would you provide follow- up?
No longer than 3 months 2 years
6 months > 2 years
1 year
12. After 12 months, the patient is doing very well (with no pain). Would you routinely remove the material? Yes, probably
I don't know
No, probably not
No, definitely not

Spine Trauma Survey Infection In the event of an acute, deep (below the fascia) surgical-site infection, if you decide to perform revision surgery 13. Would you change the material? Yes, definitely Yes, probably No, probably not Yes, probably No, definitely not 14. How many days of antibiotic therapy would you prescribe? 7 days 14 days 21 days

Spine Trauma Survey		
Classification		
15. Do you use defined classification systems in the management of thoracolumbar fractures?		
Always		
Frequently		
Occasionally		
Never		
16. If you use classification systems, which of follow	ing would you prefer?	
Denis Classification	McCormack Load Sharing Classification System	
Thoracolumbar Injury Severity Score (TLICS)	Others (please specify)	
AOSpine Thoracolumbar Fracture Classification System		
17. If you use classification systems, how it affects y	our treatment choice?	
I always use the treatment methods recommended by the	classification systems	
I frequently use the treatment methods recommended by the	ne classification systems	
I occasionally use the treatment methods recommended by by the classification systems	y the classification systemsuse the treatment methods recommended	
I never use the treatment methods recommended by the cl	assification systems	
18. How do you classify the fracture of the clinical vi Classification system?	gnette according to AOSpine Thoracolumbar Fracture	
○ A1	О В2	
○ A2	О ВЗ	
○ A3	○ c	
○ A4	I have no idea	
○ B1		

Spine Trauma Survey	
Personal Information	
19. Speciality	
Orthopedic surgeon	
Neurosurgeon	
20. Age	
21. Sex	
Male	
Female	
22. Type of the work centre	
University Hospital	Private Hospital
Training and Research Hospital	Private Practice
Public Hospital	Others (please specify)
23. Degree	
Resident	Assistant professor
Specialist	Associate professor
Chief assistant	Professor
24. Experience in spinal surgery	
< 5 years	
5-10 years	
10-15 years	
>15 years	

25. How many patients with vertebra	25. How many patients with vertebral fractures do you manage each year?		
◯ <10	50-100		
10-25	>100		
25-50			