

SPINE FRACTURES

motor innervation

diaphragm	C3-4-5
shoulder elevation	C4
elbow flexion	C5,6
elbow extension	C7
finger abduction	C8
thoracic expansion	Th1-12
hip flexion	L2
knee extension	L3-4
foot inversion	L4
foot eversion	L5
ankle dorsiflexion	L5-S1
ankle plantar flexion	S1-2
anale sphincter tension	S4-5

reflex innervation

biceps tendon reflex	C5-6
triceps tendon reflex	C6-7
knee tendon reflex	L3-4
achille tendon reflex	L5-S1

impairment scale according to ASIA

- A no motor or sensory function of S4-S5
- B no motor function below lesion incl. S4-S5 with intact sensory function
- C at least half of key muscles strength <3 with intact sensory function,
- D at least half of key muscles strength >3 with intact sensory function,
- E normal motor and sensory function

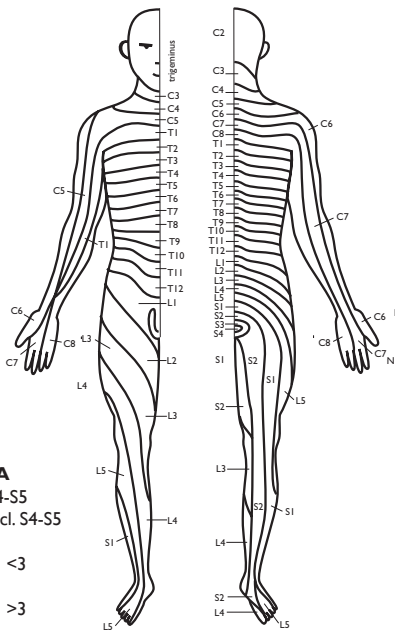
streight according to the Medical Research Council (MRC) scale

- 5 active movement against full resistance
- 4 active movement against some resistance
- 3 active movement against gravity
- 2 active movement without gravity
- 1 palpable or visible contraction without movement
- 0 no contraction or movement

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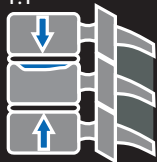


SPINE FRACTURES

classification of thoraco/ lumbar spine fractures according to Magerl/AO spine:
type A: compression

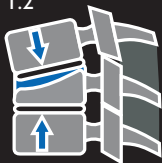
spine fractures type A: compression

A 1.1



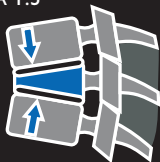
endplate impaction

A 1.2



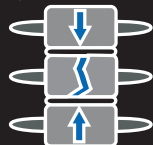
wedge impaction

A 1.3



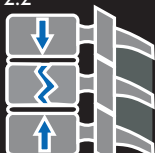
corpus collapse

A 2.1



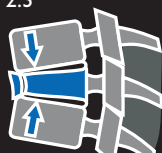
sagittal split

A 2.2



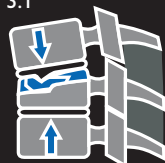
coronal split

A 2.3



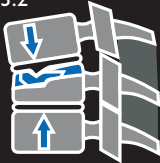
pincer fracture

A 3.1



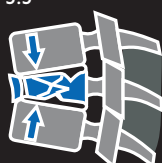
incomplete burst

A 3.2



burst-split

A 3.3



complete burst



SPINE FRACTURES

classification of thoraco/ lumbar spine fractures according to Magerl/AO spine:
type B: flexion/distraction

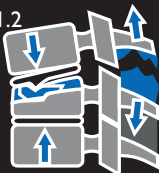
spine fractures type B: flexion/distraction

B 1.1



transv. disruption disc

B 1.2



type A + post ligament

B 2.1



transv. bicolumn

B 2.2



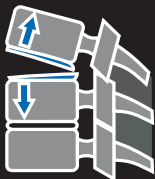
flexion-spondylolysis

B 2.3



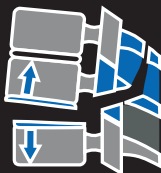
flexion-distraction+A

B 3.1



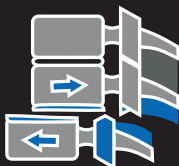
hyperextension-
subluxation

B 3.2



hyperextension-
spondylolysis

B 3.3



posterior dislocation

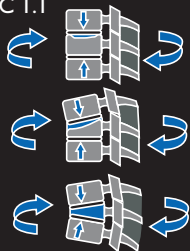
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SPINE FRACTURES

classification of thoraco/ lumbar spine fractures according to Magerl/AO spine:
type C: rotation

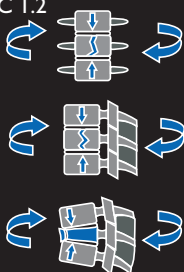
spine fractures type C: rotation

C 1.1



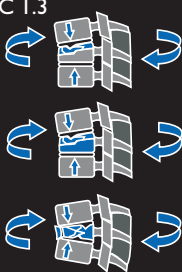
rotation+ A1 (wedge)

C 1.2



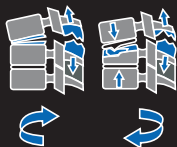
rotation+ A2 (split)

C 1.3



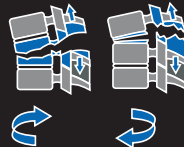
rotation+ A3 (burst)

C 2.1



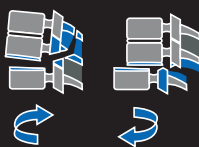
rotation+B1

C 2.2



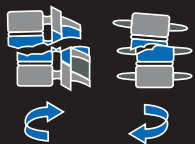
rotation+B2

C 2.3



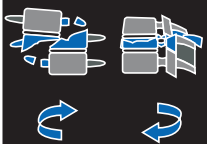
rotation+B3 (shear)

C 3.1



shear slice fracture

C 3.2



shear oblique fracture

