

Surgery v2025 extended

= only 1 answer allowed = multiple answers allowed

Patient data

Medical Record Number

Last name

First name

Date of birth DD/MM/YYYY

male other gender
 female not specified

Admission/Pathology

Admission date

DD/MM/YYYY

Main pathology

- degenerative disease
- spondylolisthesis (non-degen.)
- fracture/trauma
- pathological fracture
- deformity (non-degen.)
- infection
- tumor
- revision/reoperation

other ...

Pathological fracture due

- osteoporosis (specify the OF classification)
- Tumor (specify type of tumor and localisation)

other ...

Type of degeneration

primary | secondary

- none
- disc herniation
- central or lateral stenosis
- foraminal stenosis
- degenerative disc disease
- degenerative deformity
- degenerative spondylolisthesis
- myelopathy
- facet joint arthrosis
- synovial cyst
- SI joint

other ...

Pathological fracture age

<28 days ≥28 days

OF classification

1 2 3 4 5

Type of deformity

- scoliosis
- kyphosis
- frontal imbalance
- sagittal imbalance

other ...

Predominant etiology

- idiopathic
- congenital
- neuromuscular
- posttraumatic
- M. Scheuermann

other ...

Type of tumor

- primary malignant
- primary benign
- secondary malignant
- tumor-like lesion

other ...

Localisation of tumor

- extraosseous soft tissues
- intraosseous
- extraosseous (extradural)
- extraosseous (intradural)

other ...

Type of spondylolisthesis

- Type I (congenital, dysplastic)
- Type II (isthmic)
- Type III (degenerative)
- Type IV (traumatic)
- Type V (pathologic)
- Type VI (postoperative)

Grade of spondylolisthesis

I II III IV spondylolysis

AO neurological status

N0 N1 N2 N3 N4 NX

AO fracture type

A0 A1 A2 A3 A4
 B1 B2 B3 C

AO modifiers

none M0 M1

Infection

- pyogenic
- tuberculous
- unknown

other ...

Affected structures

- spondylitis
- discitis
- epidural space
- paravertebral infection

other ...

Type of fracture/trauma

- condylar (C0)
- C0/1 dissociation
- C1 fracture
- C1/2 instability
- C2 dens fracture
- other C2 fracture
- fracture C3-C7
- fracture Th1-L5/S1
- sacrum fracture

other ...

Dens fracture

Type I Type II Type III

ASIA classification

A C E
 B D not assessable

Reason for repeat surgery

- another originally planned surgery
- neurocompression
- non-union
- instability
- postoperative superficial infection
- postoperative deep infection
- wound healing problem
- implant malposition
- implant migration or loosening
- implant breakage
- implant assembly failure
- adjacent segment pathology
- hardware removal
- spinal imbalance
- CSF leak
- failure to reach therapeutic goals

other ...

Surgery

Number of previous spine surgeries at same/adjacent segments

- of which at the same segments
 - of which at adjacent segments

0 1 2 3 4 >4

Surgery date

DD/MM/YYYY

Surgeon

Name

Morbidity state (ASA)

- ASA 1 no disturbance
- ASA 2 mild/moderate
- ASA 3 severe
- ASA 4 life threatening
- ASA 5 moribund

Current smoker

- yes
- no
- unknown

Height

cm

Weight

kg

Duration of symptoms

- <3 months
- 3-12 months
- >12 months

Surgeon credentials

- board certified and/or specialised
- in training and/or instructed

Implants

- registration by catalogue number
- registration by manufacturer and brand
- no new implants

Additional pathology

- none
- degenerative disease
- deformity (non-degen.)
- fracture/trauma
- pathological fracture
- spondylolisthesis (non-degen.)
- inflammation
- infection
- tumor
- repeat surgery

other ...

Therapeutic goals

- axial pain relief
- peripheral pain relief
- functional improvement
- motor improvement
- sensory improvement
- bladder/sex function improvement
- spinal stabilisation
- stop deformity progression
- prophylactic decompression
- cosmetic improvement
- diagnostic measures

other ...

Anterior or lateral access

- no anterior or lateral access
- transoral
- anterolateral
- lateral
- cervicothoracic anterolateral
- thoracotomy
- thoracoabdominal
- retroperitoneal
- thoracoscopy

other ...

Posterior access

- no posterior access
- median
- paramedian
- percutaneous

other ...

Anaesthesia

- local
- spinal
- general

Technology

- conventional
- MISS/LISS
- intraoperative 3D imaging
- endoscope
- robotic navigation
- other navigation
- microscope
- neuromonitoring
-

Blood loss

- unknown
- <100 ml
- 100-500 ml
- 500-1000 ml
- 1000-2000 ml
- >2000 ml

Surgery duration

- <1 hr.
- 1-2 hrs.
- 2-3 hrs.
- 3-4 hrs.
- 4-5 hrs.
- 5-6 hrs.
- 6-8 hrs.
- 8-10 hrs.
- >10 hrs.

Blood transfusion

- none
- <2 units
- >=2 units
- cell saver

Surgical measures

Decompression

- none
- discectomy partial/total
- laminotomy
- hemilaminectomy
- laminectomy
- facetectomy partial
- facetectomy total
- sequestrectomy
- foraminotomy
- uncoforaminotomy
-

Fusion

- none
- A-IF
- OLIF
- PLIF
- TLIF
- XLIF
- other interbody fusion
- posterolateral fusion
- posterior fusion
-

Fusion material

- none
- autologous bone harvested
- autologous bone locally procured
- allogenic bone
- bone substitute
- BMP or similar
-

Rigid stabilisation

- none
- pedicle screw cemented
- pedicle screw uncemented
- vertebral body replacement by cage
- vertebral body replacement by graft plates
- iliac screw
- lateral mass screws
- facet screws
- transarticular screws C1-C2
- C2 pars/isthmic screws
- laminar hooks
- pedicle hooks
- sublaminar band/wire
- dens screws
- laminar screws
- cement
-

Deformity correction

- none
- Ponte/Smith-Petersen, Schwab II
- PSO, Schwab III/IV
- VCR
-

Other surgical measures

- none
- vb augmentation with height restoration
- vb augmentation w/o height restoration
- hardware removal
- wound drain
-

Motion preserving stabilisation

- none
- disc replacement
- dynamic stabilisation
- interspinous spacer
- lumbar pars screws
-

Intraoperative adverse events

- none
- nerve root damage
- spinal cord damage
- dura lesion
- vascular injury
- fracture vertebral structures
- cement leakage necessitating intraop. therapeutic measures
-

Intraoperative general complications

- none
- anaesthesiological
- cardiovascular
- pulmonary
- thromboembolism
- death
-

Measures during surgery

- none
- suture
- glue
- implant reposition
-

Extent of surgery

the same as for fusion

	Decompression	Fusion	Rigid stabilisation	Deformity correction	Motion preserving stabilisation	Other surgical measures
C0/1 or C0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C1/2 or C1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C3/3 or C2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C3/4 or C3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C4/5 or C4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C5/6 or C5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C6/7 or C6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C7/Th1 or C7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th1/2 or Th1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th2/3 or Th2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th3/4 or Th3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th4/5 or Th4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th5/6 or Th5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th6/7 or Th6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th7/8 or Th7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th8/9 or Th8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th9/10 or Th9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th10/11 or Th10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th11/12 or Th11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Th12/L1 or Th12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L1/2 or L1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L2/3 or L2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L3/4 or L3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L4/5 or L4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L5/S1 or L5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
sacrum S2-5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
coccyx	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ilium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Postoperative surgical complications before discharge

- none
- epidural hematoma
- other hematoma
- radiculopathy
- CSF leak/pseudomeningocele
- motor dysfunction
- sensory dysfunction
- bowel/bladder dysfunction
- wound infection superficial
- wound infection deep
- implant malposition
- implant migration or loosening
- implant breakage
- implant assembly failure
- wrong level
-

Failed component

- screw
- rod
- cage
-

Postoperative general complications before discharge

- none
- kardiovaskulär
- pulmonar
- cerebrall
- kidney/urinary
- liver/GI
- tromboembolism
- positioning-related
- death
-

Hospital stay

Discharge date

Reintervention after index surgery

- none
- hematoma evacuation
- suture
- glue
- hardware removal
- hardware reimplantation
- abscess drainage
- (further) decompression
-