

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 deformity

- ☐ scoliosis
☐ kyphosis
☐ frontal imbalance
☐ sagittal imbalance

other ...

Predominant etiology

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

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 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 ☐ spondyloptosis

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

Surgery date

DD/MM/YYYY

Surgeon

Name

Number of previous spine surgeries at same/adjacent segments

0 1 2 3 4 >4

- of which at the same segments

- of which at adjacent segments

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
☐ pathologic 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	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.	Blood transfusion ☐ none ☐ <2 units ☐ >=2 units ☐ cell saver
	☐ microscope ☐ neuromonitoring other ...			

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

Extent of surgery

the same as for fusion

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

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

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

Motion preserving stabilisation

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

Measures during surgery

☐ none
☐ suture
☐ glue
☐ implant reposition

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