

Internal Use Only / Not read by scanner

### Directions

- Use a #2 soft pencil for marking.
- Text answers must be entered with the web interface.
- All questions must be answered unless otherwise indicated.
- Completely fill in boxes to record answers.

### Question types

- only 1 answer allowed
- multiple answers allowed
- mandatory questions
- ..... please specify

### Format

- minimal
- complete

Last name		First name		Gender
Street			M.R.N.	
Country code	Zip code	City		
Social security number			Birthdate (DD.MM.YYYY)	

### Level of intervention

- |  |  |                                     |  |                                    |                              |
|--|--|-------------------------------------|--|------------------------------------|------------------------------|
| <input type="radio"/> upper cervical     | <input type="radio"/> cervicothoracic        | <input type="radio"/> thoracic      | <input type="radio"/> thoraco-lumbo-sacral | <input type="radio"/> lumbo-sacral | <input type="radio"/> coccyx |
| <input type="radio"/> mid lower cervical | <input type="radio"/> cervico-thoraco-lumbar | <input type="radio"/> thoracolumbar | <input type="radio"/> lumbar               | <input type="radio"/> sacral       |                              |

## Admission / Pathology

Day  C1  C2  C3  C4  C5  C6  C7  C8  C9  C10  C11  C12  C13  C14  C15  C16  C17  C18  C19  C20  C21  C22  C23  C24  C25  C26  C27  C28  C29  C30  C31  
 Month  C1  C2  C3  C4  C5  C6  C7  C8  C9  C10  C11  C12      Year  C11  C12  C13  C14  C15  C16  C17  C18  C19  C20

### Main pathology

- |  |   |  |                                 |  |
|--|---|--|---------------------------------|--|
| <input type="radio"/> degenerative disease | <input type="radio"/> fracture/trauma       | <input type="radio"/> spondylolisthesis (non degen.) | <input type="radio"/> infection | <input type="radio"/> repeat surgery       |
| <input type="radio"/> non degen. deformity | <input type="radio"/> pathological fracture | <input type="radio"/> inflammation                   | <input type="radio"/> tumor     | <input type="radio"/> other: specify ..... |

### Specification of Main Pathology

Only answer questions related to Main Pathology (Main Pathology "other" requires no specification.)

Degen. disease	<b>Type of degeneration</b>	Specify grade of spondyl. →	Spondylolisthesis	<b>Type of spondylolisthesis</b>	Grade of spondylolisthesis
	<input type="checkbox"/> disc herniat./protrusion	<input type="checkbox"/> degen. spondylolisthesis		<input type="radio"/> Type I (congenital, dysplastic)	
	<input type="checkbox"/> central stenosis	<input type="checkbox"/> other instability		<input type="radio"/> Type II (isthmic)	<input type="radio"/> Grade I
	<input type="checkbox"/> lateral stenosis	<input type="checkbox"/> myelopathy		← <input type="radio"/> Type III see type of degeneration	<input type="radio"/> Grade II
	<input type="checkbox"/> foraminal stenosis	<input type="checkbox"/> facet joint arthrosis		<input type="radio"/> Type IV (traumatic)	<input type="radio"/> Grade III
	<input type="checkbox"/> degen. disc disease	<input type="checkbox"/> other .....		<input type="radio"/> Type V (pathologic)	<input type="radio"/> Grade IV
	<input type="checkbox"/> degen. deformity	Specify type of deformity below		<input type="radio"/> Type VI (postsurgical)	<input type="radio"/> Spondyloptosis (V)
Deformity	<b>Type of deformity</b> Also specify type of degenerative deformity		Inflammation	<b>Type of inflammation</b>	
	<input type="radio"/> scoliosis	<input type="radio"/> combined		<input type="radio"/> inflammatory arthritis (seropos)	<input type="radio"/> seronegative arthritis
	<input type="radio"/> kyphosis	<input type="radio"/> other .....		<input type="radio"/> ankylosing spondylitis (M. Bechterew)	
	<b>Type of scoliosis</b>			<input type="radio"/> other .....	
	<input type="radio"/> single curve	<input type="radio"/> double curve	Infection	<b>Infection specification</b>	<b>Affected structure(s)</b>
	<b>Predominant etiology</b>			<input type="radio"/> pyogenic	<input type="radio"/> fungal
	<input type="radio"/> idiopathic	<input type="radio"/> posttraumatic	<input type="radio"/> parasitic	<input type="radio"/> other	<input type="checkbox"/> discitis
	<input type="radio"/> congenital	<input type="radio"/> M. Scheuermann	<input type="radio"/> tuberculous	.....	<input type="checkbox"/> epidural space
	<input type="radio"/> neuromuscular	<input type="radio"/> other .....			<input type="checkbox"/> other .....
(Pathological) Fracture/Trauma	Additional fractures w/different treatments require separate forms		Tumor	<b>Type of tumor</b>	Localization
	<b>Type of (pathological) fracture/trauma</b>			<input type="radio"/> primary malignant	
<input type="radio"/> condylar (C0)	<input type="radio"/> C2 other fracture		<input type="radio"/> primary benign	<input type="checkbox"/> intraosseous (superficial)	
<input type="radio"/> C0/1 dissociation	<input type="radio"/> soft tissue injury neck		<input type="radio"/> secondary malignant	<input type="checkbox"/> intraosseous (deep)	
<input type="radio"/> C1 fracture	<input type="radio"/> fracture C3-L5/S1		<input type="radio"/> tumor like lesion	<input type="checkbox"/> extraosseous (extradural)	
<input type="radio"/> C1/2 instability	<input type="radio"/> sacrum fracture		<input type="radio"/> other .....	<input type="checkbox"/> extraosseous (intradural)	
<input type="radio"/> C2 dens fracture	<input type="radio"/> other .....			<input type="checkbox"/> other .....	
<b>Dens fracture type</b>	<b>C3-L5/S1 AO fracture type</b>		<b>Specify type of tumor</b> .....		
<input type="radio"/> I	Type <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C		Repeat surg.	<b>Type or reason of repeat surgery</b>	
<input type="radio"/> II	Group <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="checkbox"/> hardware removal	<input type="checkbox"/> neurocompression
<input type="radio"/> III	Subgroup <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3		<input type="checkbox"/> non-union	<input type="checkbox"/> postop. infection	<input type="checkbox"/> sagittal imbalance
<b>Pathological fracture due to ...</b>	<b>Fracture age</b>		<input type="checkbox"/> instability	<input type="checkbox"/> superficial	<input type="checkbox"/> adjac. segment
<input type="radio"/> osteoporosis	<input type="radio"/> fresh fracture		<input type="checkbox"/> failure to reach therapeutic goals	<input type="checkbox"/> postop. infect. deep	<input type="checkbox"/> pathology
<input type="radio"/> tumor	<input type="radio"/> old fracture			<input type="checkbox"/> implant malposition	<input type="checkbox"/> other .....
<input type="radio"/> other .....	In case of tumor, answer questions "Type of tumor" and "Localization" in section "TUMOR"				

### Comments regarding main pathology:

In segments, mark cranial VB SA = sacrum (S2-5) / CO = coccyx

Most severely affected  segment  vertebral body

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  C10  C11  C12  C13  C14  C15  C16  C17  C18  C19  C20  C21  C22  C23  C24  C25  C26  C27  C28  C29  C30  C31

### Extent of lesion (segments/vertebral bodies)

C1  C2  C3  C4  C5  C6  C7  C8  C9  C10  C11  C12  C13  C14  C15  C16  C17  C18  C19  C20  C21  C22  C23  C24  C25  C26  C27  C28  C29  C30  C31

### Additional pathology (Answer to question "Main pathology" is excluded.)

- |   |   |   |                                       |   |   |
|---|---|---|---------------------------------------|---|---|
| <input type="checkbox"/> none           | <input type="checkbox"/> non-degen. deformity | <input type="checkbox"/> pathological fracture          | <input type="checkbox"/> inflammation | <input type="checkbox"/> tumor          | <input type="checkbox"/> other: specify ..... |
| <input type="checkbox"/> degen. disease | <input type="checkbox"/> fracture/trauma      | <input type="checkbox"/> spondylolisthesis (non-degen.) | <input type="checkbox"/> infection    | <input type="checkbox"/> repeat surgery |   |

### Number of previous spine surgeries

C0  C1  C2  C3  C4  C5  C6

Answer "0" excludes both "Previous surgery" questions ("at same level" and "at same hospital".)

### Previous surgeries at same level

no  yes  partially

### Prev. surg. same hospital or surgeon

no  yes  partially

### Previous treatment for main pathology (by specialist)

none  3-6 mon. conservative  
 surgical  6-12 mon. conservative  
 < 3 mon. conservative  > 12 mon. conservative

### Risk factors

#### BMI

- < 20
- 20-25
- 26-30
- 31-35
- > 35
- unknown

#### Current smoker

- yes
- no
- unknown

#### Presence of flags - low back pain

- |                               |                                 |   |
|-------------------------------|---------------------------------|---|
| <input type="checkbox"/> none | <input type="checkbox"/> orange | <input type="checkbox"/> not assessable/ applicable |
| <input type="checkbox"/> red  | <input type="checkbox"/> blue   | <input type="checkbox"/> black                      |

Red: Biomedical Factors; serious spinal pathology  
 Yellow: Psychosocial or behavioral factors  
 Orange: Abnormal psychological processes indicating psychiatric disorders  
 Blue: Socioeconomic/work factors  
 Black: Occupational and societal factors

Surgeon ..... Assistant .....

Surgery

Day (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31)
Month (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) Year (1) (2) (3) (4) (5) (6) (7) (8) (9) (20)

Therapeutic goals

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

Anterior access

- no anterior access
transoral
anterolateral
cervicothorac. anterolat.
cervicothorac. w/sternotomy
thoracotomy
thoracoabdominal
retroperitoneal
transperitoneal
trans-psoas (XLIF)
other .....

Components Description not needed if SEDICO implant tracking is used.

- none
with description
w/o description
Supplier:
Article name:
For article numbers or multiple implants use form "Implant documentation" @ www.eurospine.org

Posterior access

- no posterior access
midline
paramedian
posterolateral
percutaneous
para-coccygeal (AxiALIF)
other .....

Surgeon credentials

- specialized spine
board certif. orthopaedic
board certified neuro
orthopaedic in training
neuro in training
other .....

Morbidity state

- unknown
ASA1 (no disturbance)
ASA2 (mild/moderate)
ASA3 (severe)
ASA4 (life threatening)
ASA5 (moribund)

Technology

- conventional
MISS/LISS
loops
endoscope
CASS
microscope
neuromonitoring
other .....

Operation time

- unknown
< 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.

Prophylaxis

- none
infection
thrombembolism
ossification
other .....

Blood loss

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

Blood transfusion

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

Surgical Measures

Note: "anterior" / "posterior" refers to location of MEASURES in the spine, NOT to access!

Decompression

- none
anterior
posterior
specify ...
discectomy partial/total
vertebrectomy partial
vertebrectomy full
osteotomy
laminotomy
hemi-laminectomy
laminectomy
facet joint resec. partial
facet joint resection full
sequestrectomy
flavectomy
flavotomy
foraminotomy
laminoplasty
uncoforaminotomy
other .....

Fusion promoting measu.

- none
anterior
posterior
specify ...
interbody fusion (A-IF)
interbody fusion (PLIF)
interbody fusion (TLIF)
interbody fusion (XLIF)
other interbody fusion
posterolat. fusion
posterior fusion
other .....

Fusion material

- none
autol. bone harvested
autol. bone locally procured
allog. bone
bone subst.
cement
BMP or similar
other .....

Stabilization rigid

- none
anterior
posterior
specify ...
interbody stabil. with cage
interbody stabil. with auto-/allograft
vertebral body replacement by cage
vertebral body replacement by auto-/allograft
plates
pedicle screws with rod
facet screws
transarticular screw C1-C2
laminar hooks with rod
pedicle hooks with rod
lateral mass screw with rod
odontoid screws
laminar screws
other .....

Stabil. motion preserving

- none
anterior
posterior
specify ...
disc replacement
dynamic stabilizat.
interspin. spacer
other .....

Percutan. measures

- none
post.
specify ...
facet block
root block
discography
vertebroplasty
kyphoplasty
epidural injections
other .....

Other surgical measures

- no
yes
Specify yes: .....

Extent of surgery - indicate as: (from cranial to caudal)

- segments from (0) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31)
vertebral bodies to (0) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31)

SA = sacrum (S2-5) / CO = coccyx

Intraop surgical complications

- none
nerve root damage
spinal cord damage
dura lesion
vascular injury
fx vertebral structures
other .....

Surgical measures during index surgery

- none
suture/glue
other .....

Intraop general complications

- none
anaesthesiological
cardiovascular
pulmonary
thrombembolism
death
other .....

Hospital stay

Postop surgic compl. 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 failure
wrong level
other .....

Postop general compl. before discharge

- none
cardiovascular
pulmonary
cerebral
kidney / urinary
liver / GI
thrombembolism
death
other .....

Re-intervention after index surgery

- none
hematoma evacuation
suture / glue
hardware removal
hardware
re-implantation
abscess drainage
(further) decompression
other .....

Hospital stay

- uneventful
ICU > 2 days
extended stay

Status of surg. complications

- resolved
persisting
improved

Therapeutic goals upon discharge

- achieved
partially achieved
not achieved

FU foreseen

- no
yes

Discharge Day (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31)
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