

### 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        mandatory question  
  multiple answers allowed

periop        postop / followup

Internal Use Only  
Not read by scanner

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

*Form to be completed with SSE surgery or followup.*

### Examination date

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 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

### Diagnosis — periop only

#### Deformity type

- AIS in adults  
 degenerative  
 post-surgical  
 posttraumatic  
 neuromuscular/ neuro degenerative  
 other..... Please specify

#### Primary deformity pattern

- scoliosis/coronal plane  
  kyphosis/flatback/sagittal plane  
  combined

*AIS = adolescent idiopathic scoliosis*

#### SRS-Schwab classification Further details are provided in the dictionary of terms.

##### Curve pattern

- thoracic only  
  thoracic and lumbar  
  lumbar only  
  primary sagittal

##### Pelvic tilt modifier

- low (PT < 20°)  
  medium (PT 20° - 30°)  
  high (PT >30°)

##### PI-LL modifier

- A (PI-LL < 10°)  
  B (PI-LL 10° - 20°)  
  C (PI-LL >20°)

##### Global balance modifier

- N (SVA <40mm)        P (SVA 40 - 95mm)        VP (SVA >95 mm)

#### Primary surgical indication

- low back pain  
 leg pain/neuro findings  
 loss of ambulatory endurance  
 general disability/functional loss  
 concerns over deformity progression  
 other..... Please specify

#### RADIOLOGY

##### Curve type

- Type 1, main thoracic (MT)  
  Type 2, double thoracic (DT)  
  Type 3, double major (DM)

##### Lenke classification

- Type 4, triple major (TM)  
  Type 5, thoracolumbar/lumbar (TL/L)  
  Type 6, thoracolumbar/lumbar-main thoracic (TL/L -MT)

##### Thoracic sagittal modifier (Th 5-Th12)

- (hypo)        N (normal)        + (hyper)

##### Lumbar modifier

- A        B        C

*Further details are provided in the dictionary of terms.*

#### Risk factors - comorbidities

- none       gastroenterological       anticoagulation       rheumatoid arthritis  
 cardiovascular       thrombotic history       diabetes mellitus       other.....  
 pulmonary       hypertension       musculoskeletal comorbidities      *Please specify*

### Medication

#### Medication for osteoporosis

- none       bisphosphonate  
 calcium/vitamine D       denosumab (Prolia)  
 teriparatide (Forsteo)       other.....  
*Please specify*

#### Medication for spinal surgery/ pathology — periop only

- none       strong opiates (WHO III)       vitamin B complex  
 NSAID, paracetamol (WHO I)       steroids       antibiotics  
 weak opiates (WHO II)       antidepressives       other .....  
*Please specify*

### DEXA/ osteoporosis signs — optional

#### Location

- L1  
  hip  
  other.....  
*Please specify*

#### T-score

- >= -1  
  -1 - -2,5  
  <= -2,5  
  <= -2,5 and fractures

#### Z-score

- >= -1  
  -1 - -2,5  
  <= -2,5  
  <= -2,5 and fractures

#### Prior vertebral fractures

- none  
  1  
  2  
  >2..... *Please specify*

#### Fracture location

- thoracic  
  lumbar

### Operation/ additional surgical measures — periop only

#### Osteotomy classification (Schwab)

- no osteotomies Details of classification are provided in the dictionary of terms.
- Grade I: *partial facet joint resection* Th1 Th2 Th3 Th4 Th5 Th6 Th7 Th8 Th9 Th10 Th11 Th12 L1 L2 L3 L4 L5  
 -> Specify levels / VBs
- Grade II: *complete facet joint resection (Smith-Petersen)* Th1 Th2 Th3 Th4 Th5 Th6 Th7 Th8 Th9 Th10 Th11 Th12 L1 L2 L3 L4 L5  
 -> Specify levels / VBs
- Grade III: *pedicle and vertebral wedge resection (PSO)* Th1 Th2 Th3 Th4 Th5 Th6 Th7 Th8 Th9 Th10 Th11 Th12 L1 L2 L3 L4 L5  
 -> Specify levels / VBs
- Grade IV: *Grade III plus resection endplate and disc* Th1 Th2 Th3 Th4 Th5 Th6 Th7 Th8 Th9 Th10 Th11 Th12 L1 L2 L3 L4 L5  
 -> Specify levels / VBs
- Grade V: *monosegmental vertebrectomy (including adj. discs)* Th1 Th2 Th3 Th4 Th5 Th6 Th7 Th8 Th9 Th10 Th11 Th12 L1 L2 L3 L4 L5  
 -> Specify levels / VBs
- Grade VI: *multisegmental vertebrectomy* Th1 Th2 Th3 Th4 Th5 Th6 Th7 Th8 Th9 Th10 Th11 Th12 L1 L2 L3 L4 L5  
 -> Specify levels / VBs

#### Neuromonitoring

- none  
  by surgeon  
  by neurophysiologist

#### Technique/ screw insertion

- each level/VB bilaterally  
  each level/VB unilaterally  
  alternating

#### Material/ rod specification

- CoCr convex  
 CoCr concave  
 Titanium convex  
 Titanium concave  
 other convex.....  
 other concave.....

#### Perioperative management of bleeding

- none       fibrin glue  
 FFP       thrombin  
 fibrinogen       other.....  
 tranexamic acid      *Please specify*

#### Sacro-iliacale Fixation

- none  
 S2-ala-screw      ➡  right       left  
 S2-ala-ileum-screw      ➡  right       left  
 Ilium-screw      ➡  right       left  
 ev. both

#### If Ilium screws - no. of

- Right 1 2 3  
 Left 1 2 3

**Radiology**   yes        no *If NO, Subform radiology is excluded.*

*Question radiology must always be answered.*

PERIOP ONLY

PERIOP ONLY

# Radiology

### Imaging date

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  C10  C11  C12  C13  C14  C15  C16  C17  C18  C19  C20  C21  C22  C23  C24  C25  C26

## Anterior-posterior view

### Main curve

**Side/convexity**  
 left  right  
**Curve location**  
 prox. thoracic (PT)  
 main thoracic (MT)  
 thoracolumbar/lumbar (TL/L)

### Erect Cobb angle

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
*\*in degrees*

### Curve apex

apical vertebra  apical disc space  
 mark cranial and caudal end VB  
 Th1  Th2  Th3  Th4  Th5  Th6  Th7  Th8  Th9  Th10  Th11  Th12  L1  L2  L3  L4  L5

### Upper/ lower end vertebra

mark cranial and caudal end VB  
 Th1  Th2  Th3  Th4  Th5  Th6  Th7  Th8  Th9  Th10  Th11  Th12  L1  L2  L3  L4  L5  
*two answers only!*

### Coronal spinal balance /

**C7 plumbline offset from CVSL**  
 right  left *\*in cm*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

### Secondary curve not applicable

**Side/convexity**  
 left  right  
**Curve location**  
 prox. thoracic (PT)  
 main thoracic (MT)  
 thoracolumbar/lumbar (TL/L)

### Erect Cobb angle

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
*\*in degrees*

### Curve apex

apical vertebra  apical disc space  
 mark cranial and caudal end VB  
 Th1  Th2  Th3  Th4  Th5  Th6  Th7  Th8  Th9  Th10  Th11  Th12  L1  L2  L3  L4  L5

### Upper/ lower end vertebra *(optional)*

mark cranial and caudal end VB  
 Th1  Th2  Th3  Th4  Th5  Th6  Th7  Th8  Th9  Th10  Th11  Th12  L1  L2  L3  L4  L5  
*two answers only!*

### Pelvic obliquity *(optional)*

right  left *\*in degrees*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

### Tertiary curve not applicable

**Side/convexity**  
 left  right  
**Curve location**  
 prox. thoracic (PT)  
 main thoracic (MT)  
 thoracolumbar/lumbar (TL/L)

### Erect Cobb angle

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
*\*in degrees*

### Curve apex

apical vertebra  apical disc space  
 mark cranial and caudal end VB  
 Th1  Th2  Th3  Th4  Th5  Th6  Th7  Th8  Th9  Th10  Th11  Th12  L1  L2  L3  L4  L5

### Upper/ lower end vertebra *(optional)*

mark cranial and caudal end VB  
 Th1  Th2  Th3  Th4  Th5  Th6  Th7  Th8  Th9  Th10  Th11  Th12  L1  L2  L3  L4  L5  
*two answers only!*

### Sacral obliquity

right  left *\*in degrees*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

## Lateral (sagittal) view

### Thoracic kyphosis (Th4-Th12)

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 lordosis *\*in degrees*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

### Thoracolumbar alignment (Th10-L2)

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 kyphosis  lordosis  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

### Lumbar lordosis (endplates Th12-S1)

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 kyphosis *\*in degrees*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

### Proximal junction kyphosis

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
*\*in degrees*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

### Distal junction kyphosis *postop only*

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
*\*in degrees*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

### Sagittal spinal balance (SVA - plumbline offset C7-S1)

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 dorsal  ventral *\*in cm*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

Sacral slope is calculated online automatically

### Pelvic incidence

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
*\*in degrees*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

### Pelvic tilt

C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
*\*in degrees*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9

### T1-spino-pelvic-inclination

anterior  posterior *\*in degrees*  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9  
 C0  C1  C2  C3  C4  C5  C6  C7  C8  C9