

1. Report of Visiting at Bordeaux university hospital & Istituto Orthopedico Galeazzi, Milan

K. Kumano, M.D. JPSTSS board member

T. Umebayashi, M.D. ShinYokohama Spine Clinic

Y. Kumano, M.D. Tama Hokubu medical center

Travel schedule

2013.1.27 Flight from Haneda to Paris to Bordeaux

2013.1.28 Bordeaux university hospital

Case 1. Congenital scoliosis 15 y.o. boy Op. time: 3hrs.

Case 2. Post traumatic kyphoscoliosis 52 y.o. man No neurological symptom Op: 4 hrs.

2013.1.29 Bordeaux university hospital

Case 3. ACF at two level for cervical canal stenosis Op: 60 min.

Flight from Bordeaux to Paris to Milan

2013.1.30 Istituto Orthopedico Galeazzi Dr. Pedro Berjano

Case 1. SCS at L4/5 with spondylolisthesis XLIF with unilateral PS Posterior decompression
Op time: 70 min.

Case 2. Lumbar discopathy with tilting spine XLIF with unilateral PS Posterior decompression
Op time: 75 min.

Flight from Milan to Paris

Visiting at Bordeaux university hospital, Bordeaux, France

Surgeon Dr.Ibrahim Obeid

Case1. Pedicle screwing for congenital scoliosis

Case2. PSO pedicle screwing

Case3. ACF for cervical canal stenosis

Bordeaux university hospital

Surgeon : Dr.Ibrahim Obeid

Case 1. Congenital scoliosis

Boy, age 15

Points of this procedure by Dr. I. Obeid

- Free hand pedicle screwing at thoracic spine
- *Navigation pedicle screwing at cervical spine* using O-arm
- Curve correction by pedicle screwing at convex side

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CHU Bordeaux
Dr OBEID, I
28/01/2019
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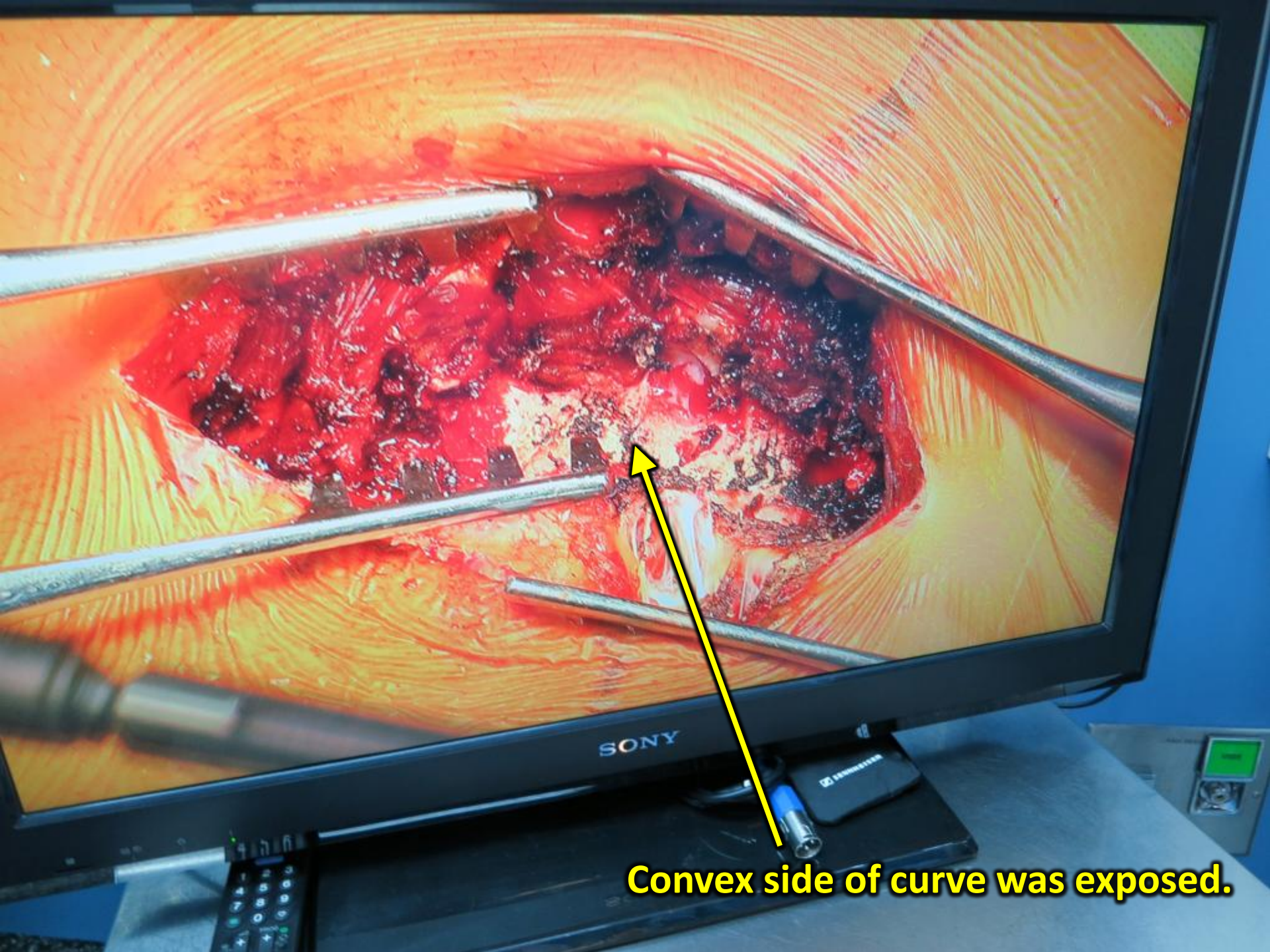


Level confirmation

70 kVp
9.8 mA
0.439 mGy

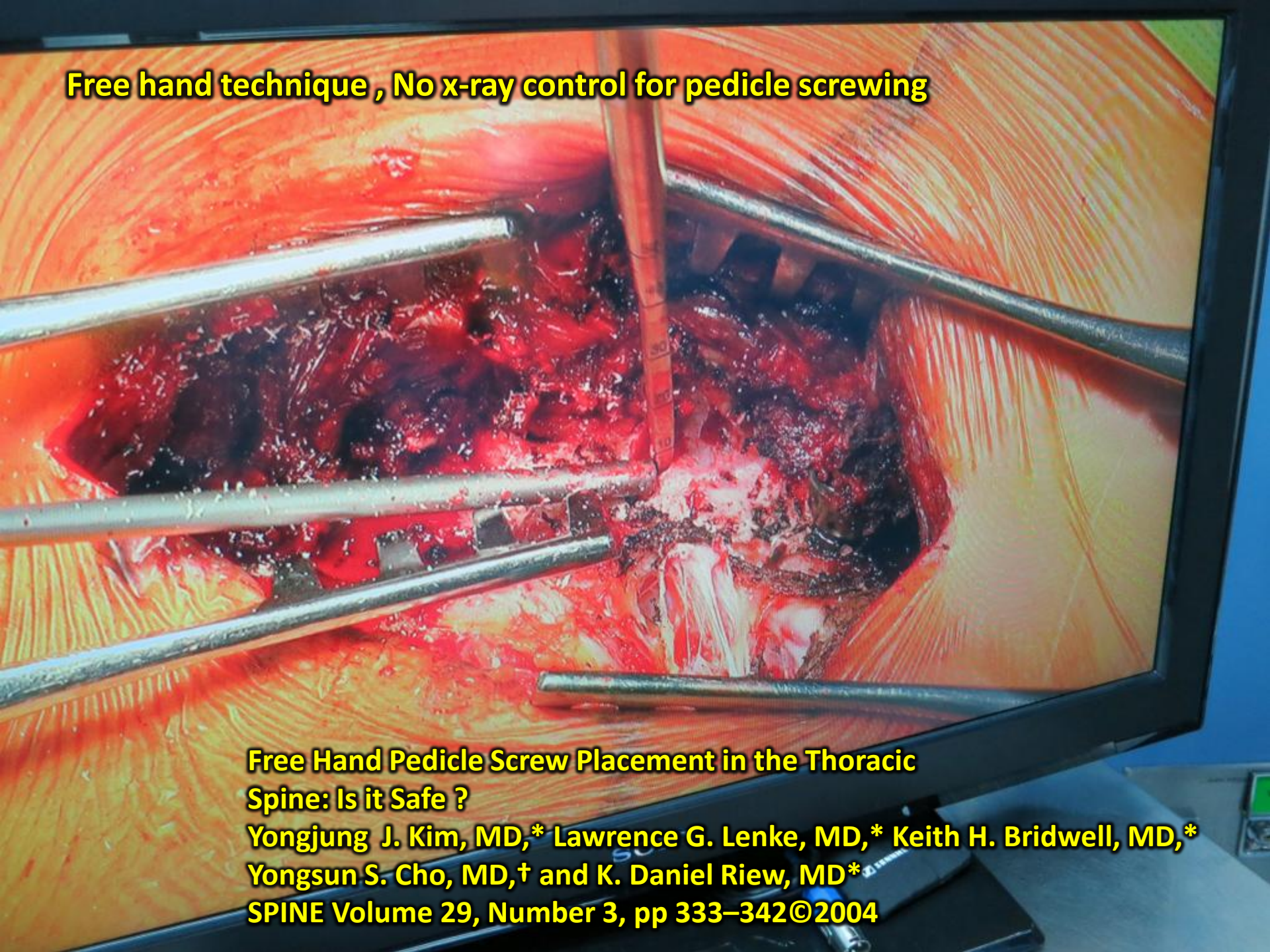
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Pedicle screwing was performed at thoracic spine first



Convex side of curve was exposed.

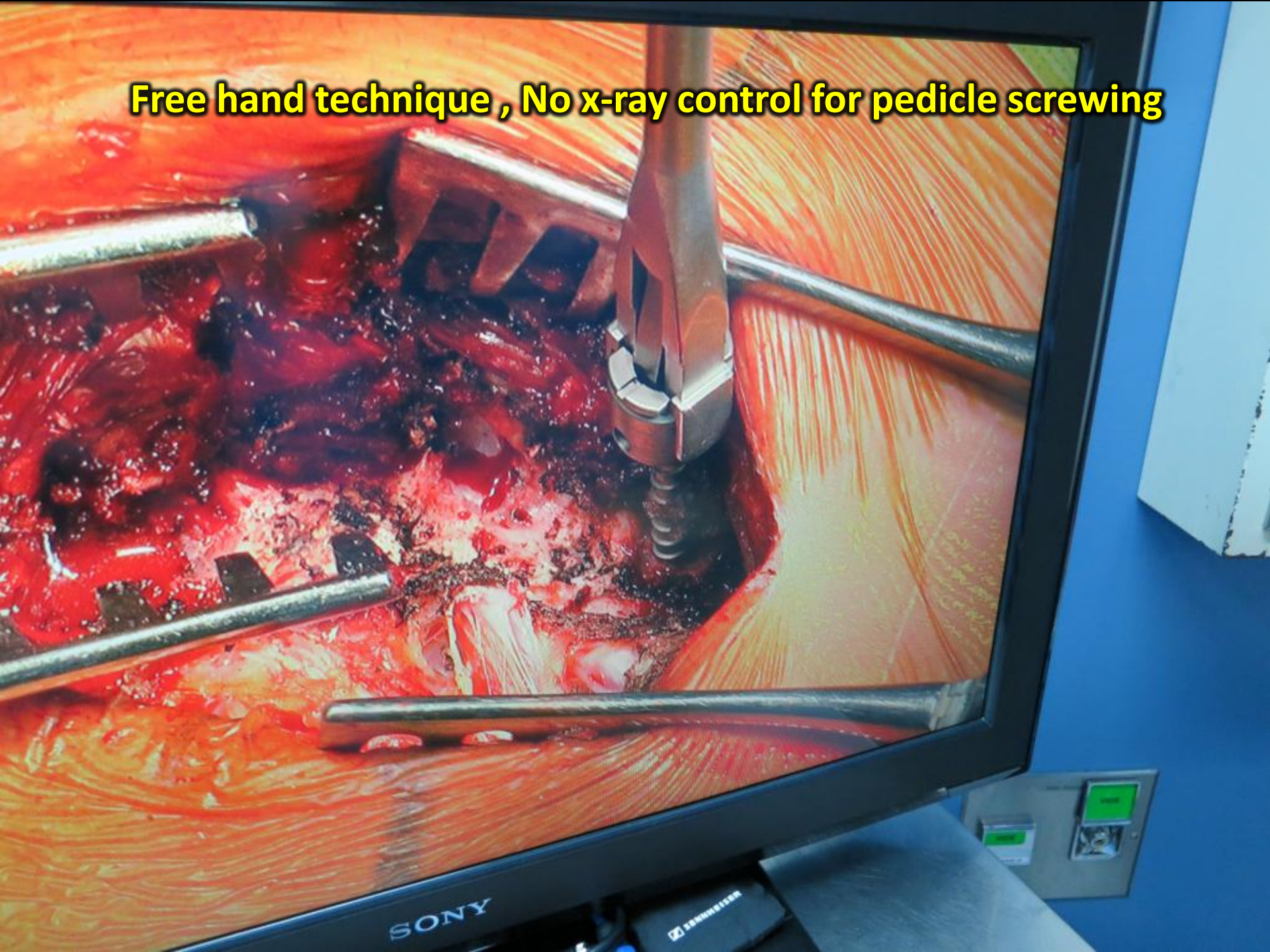
Free hand technique , No x-ray control for pedicle screwing



Free Hand Pedicle Screw Placement in the Thoracic Spine: Is it Safe ?

**Yongjung J. Kim, MD,* Lawrence G. Lenke, MD,* Keith H. Bridwell, MD,*
Yongsun S. Cho, MD,† and K. Daniel Riew, MD*
SPINE Volume 29, Number 3, pp 333-342©2004**

Free hand technique , No x-ray control for pedicle screwing

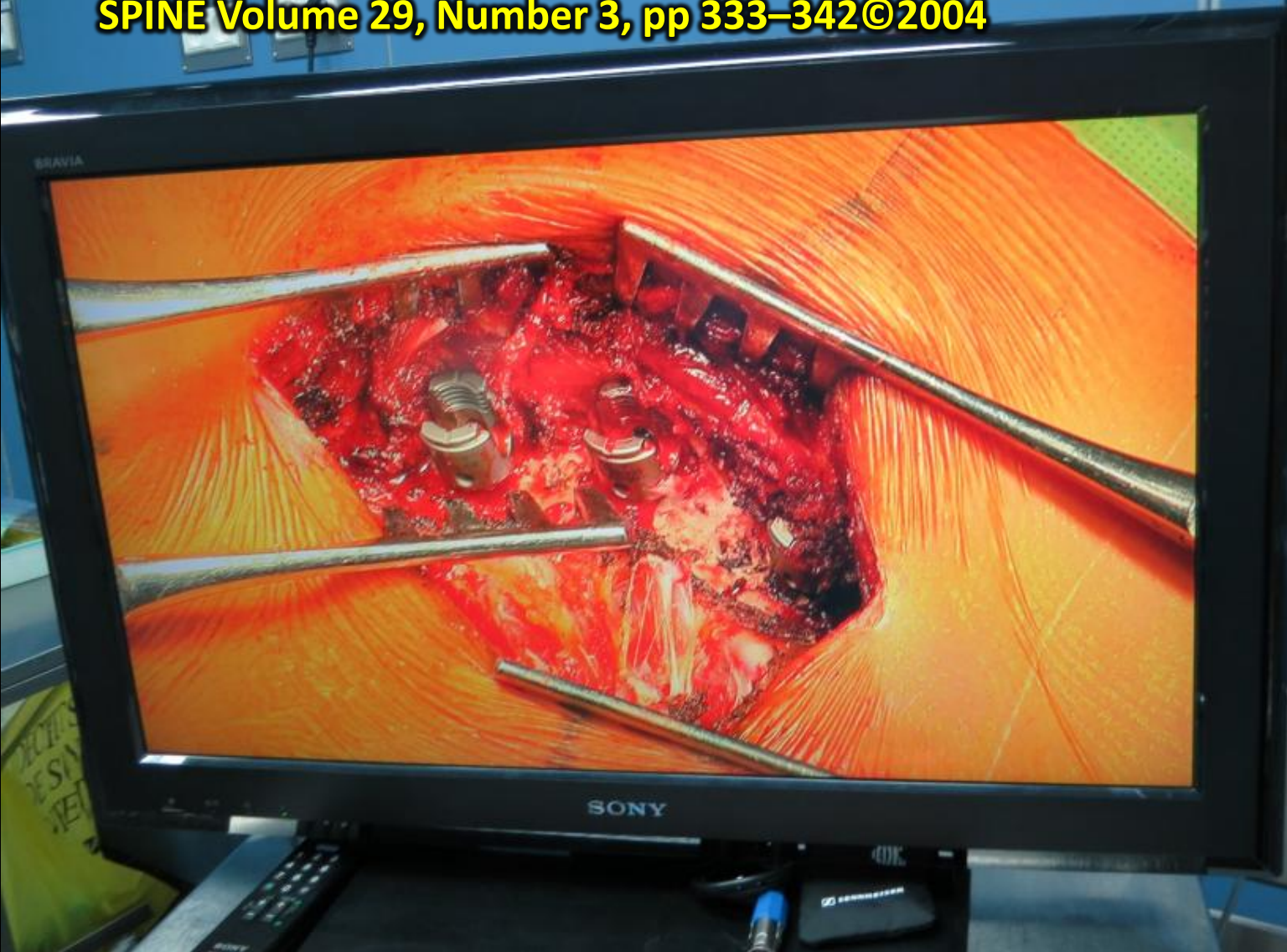


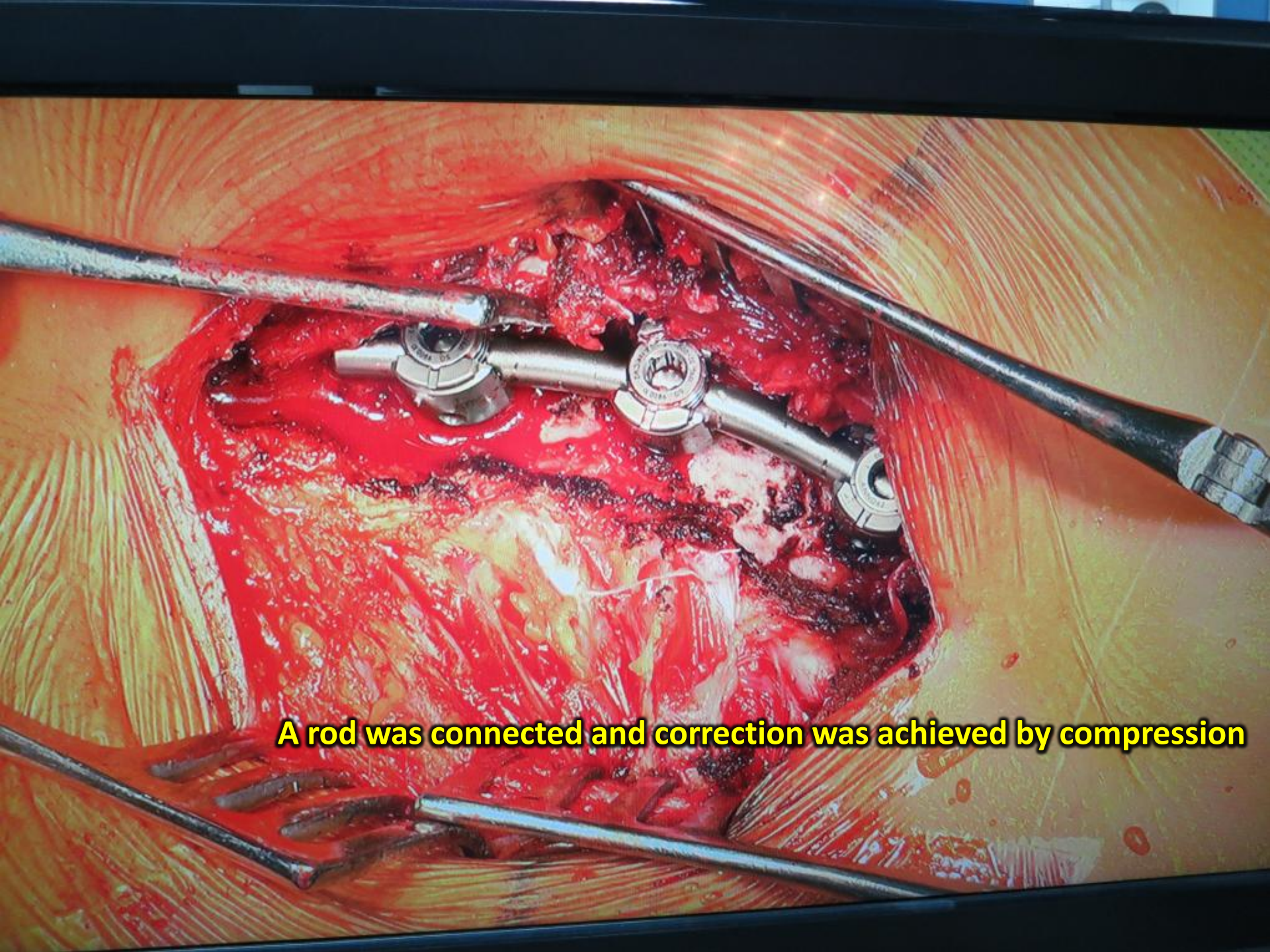
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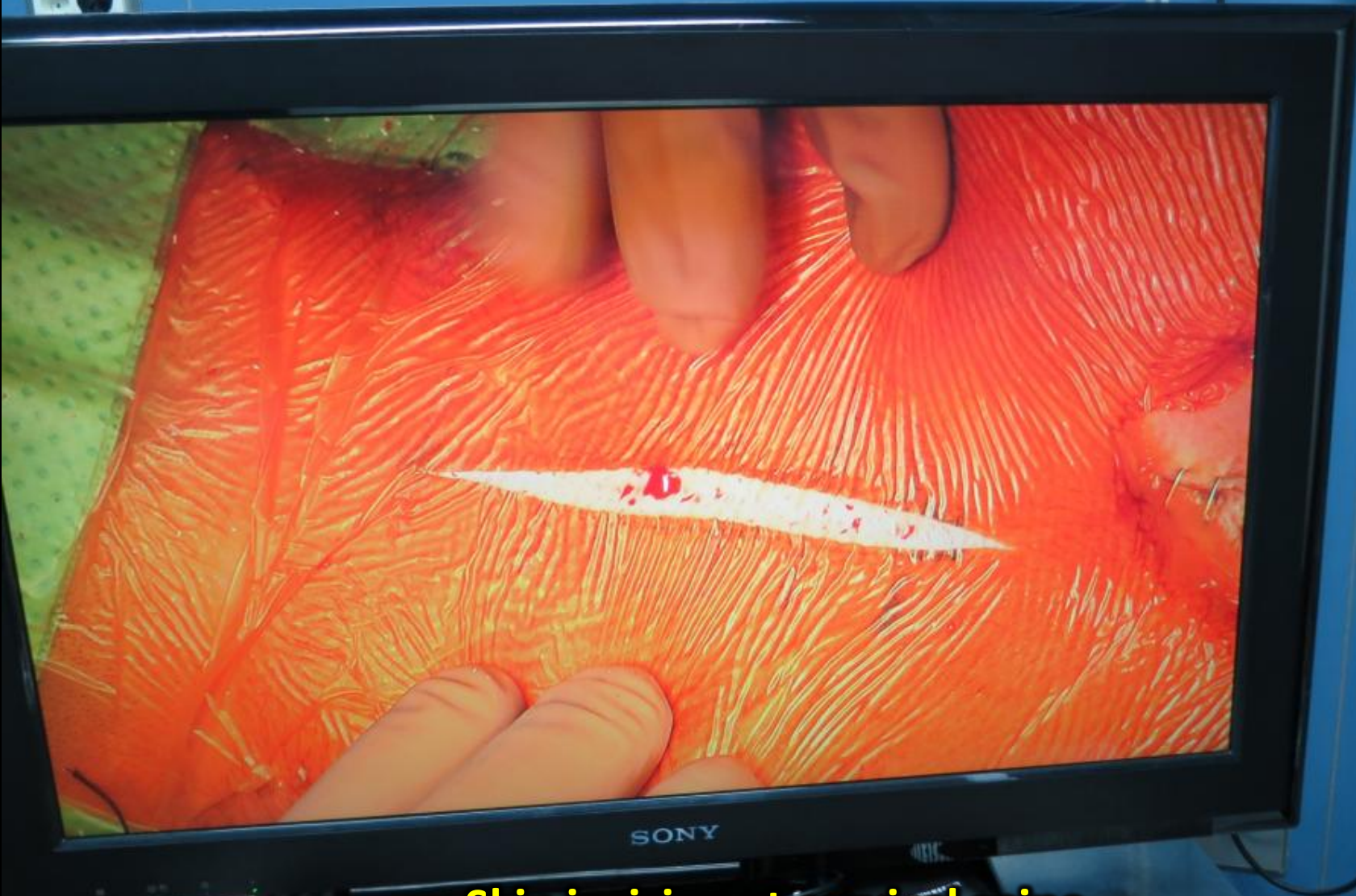
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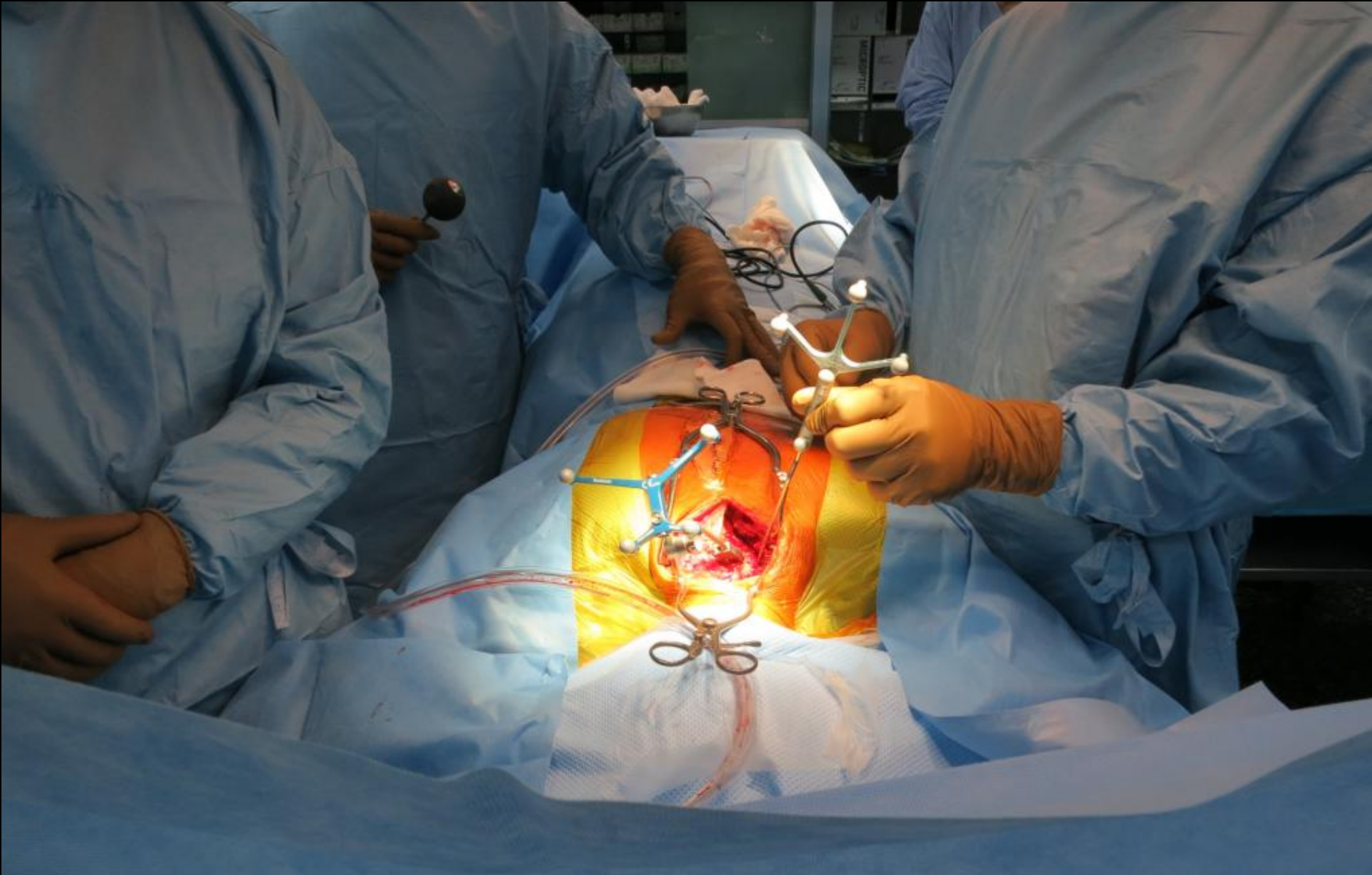
A rod was connected and correction was achieved by compression



Skin incision at cervical spine

O-arm was used for pedicle screwing



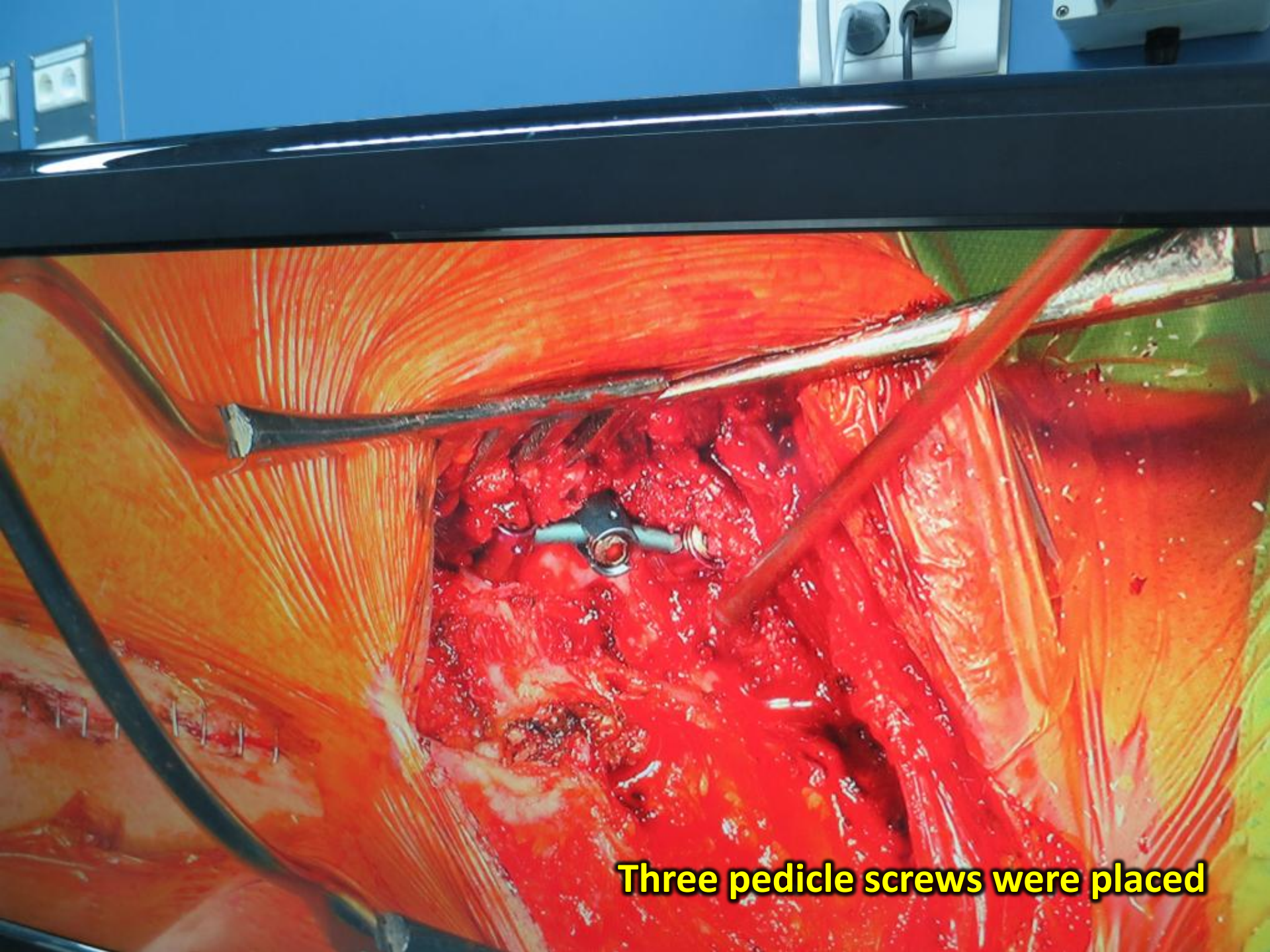


Navigation tool was at spinous processes.

Navigation at work



StealthStation



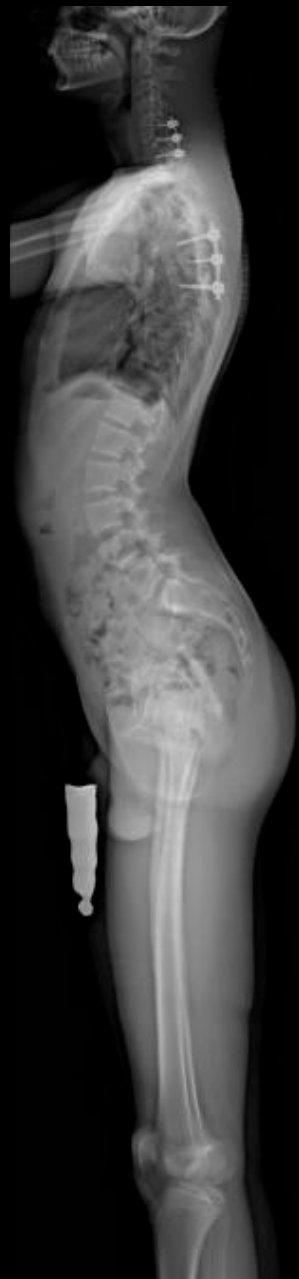
Three pedicle screws were placed



Positioning



Operation table



**Pre & Post
Op. X-rays
on standing**

**First assistant
Dr. Anyman from Saudi Arabia**



28 Jan. 2013