

Fluoroscopy for Transpedicular Screw Placement in Scoliosis: What is the Best Method of Measuring Radiation Exposure?

Skolyozda Transpediküler Vida Yerleştirilmesi İçin Floroskopi Kullanımı: Radyasyon Maruziyetini En İyi Ölçen Yöntem Hangisidir?

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KEYWORDS: Scoliosis, Fluoroscopy, Radiation dosage

ANAHTAR SÖZCÜKLER: Skolyoz, Floroskopi, Radyasyon dozu

We read with interest the article titled "Fluoroscopy for transpedicular screw placement in scoliosis: to what extent can radiation exposure be reduced by the freehand technique?" by Ege et al. (1).

We congratulate the authors for reporting their results. Ege et al. have shared their results that they got from the fluoroscopy device retrospectively. We think that this study method could not prove the exact amount of radiation exposure that impacts the surgical team correctly. The authors compare their study with similar studies (2, 3) that measure radiation exposure by dosimetry as more objectively. Disuse of dosimetry damages the objectivity of the study and limits the article. The authors of the article did not measure amount of radiation per screw, in contrast to the studies they reference. This is the other weak point of the article.

REFERENCES

- Ege T, Bilgic S, Koca K, et al: Fluoroscopy for transpedicular screw placement in scoliosis: To what extent can radiation exposure be reduced by the freehand technique? Turk Neurosurg 23(3):344-348, 2013
- 2. Jones DP, Robertson PA, Lunt B, Jackson SA: Radiation exposure during fluoroscopically assisted pedicle screw insertion in the lumbar spine. Spine 25(12):1538-1541, 2000
- Ul Haque M, Shufflebarger HL, O'Brien M, Macagno A: Radiation exposure during pedicle screw placement in adolescent idiopathic scoliosis: Is fluoroscopy safe? Spine 31(21):2516-2520, 2006