

Screw loosening

Results indicated that robot-assisted [pedicle screw placement](#) in [TLIF](#) had a lower [screw](#) loosening rate and similar patient-reported outcomes compared with the fluoroscopy-guided technique ¹⁾

Loosening of [spine arthrodesis](#) could be successfully treated by percutaneous injection of bone cement under CT and fluoroscopy guidance ²⁾.

¹⁾

Lai YP, Lin YH, Wu YC, Shih CM, Chen KH, Lee CH, Pan CC. Robot-Assisted Pedicle Screw Placement Led to Lower Screw Loosening Rate than Fluoroscopy-Guided Technique in Transforaminal Lumbar Interbody Fusion for Lumbar Degenerative Disease: A Single-Center Retrospective Study. J Clin Med. 2022 Aug 25;11(17):4989. doi: 10.3390/jcm11174989. PMID: 36078918; PMCID: PMC9456711.

²⁾

Amoretti N, Bertrand AS, Gallo G, Caudal A, Cornelis F, Hauger O, Boileau P. Percutaneous consolidation of loosened spine arthrodesis under CT and fluoroscopy guidance by radiologists: a new useful technique. Eur Radiol. 2014 Oct 31. [Epub ahead of print] PubMed PMID: 25358596.

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