Accepted Manuscript

Title: Intraoperative image guidance compared with free-hand methods in adolescent idiopathic scoliosis posterior spinal surgery: a systematic review on screw-related complications and breach rates

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PII: S1529-9430(17)30135-3

DOI: http://dx.doi.org/doi: 10.1016/j.spinee.2017.04.001

Reference: SPINEE 57278

To appear in: The Spine Journal

Received date: 17-1-2017 Accepted date: 10-4-2017



Please cite this article as: Andrew Chan, Eric Parent, Karl Narvacan, Cindy San, Edmond Lou, Intraoperative image guidance compared with free-hand methods in adolescent idiopathic scoliosis posterior spinal surgery: a systematic review on screw-related complications and breach rates, *The Spine Journal* (2017), http://dx.doi.org/doi: 10.1016/j.spinee.2017.04.001.

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| 1 | Intraoperative Image Guidance Compared with Free-hand Methods in |
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| 2 | Adolescent Idiopathic Scoliosis Posterior Spinal Surgery: A Systematic |
| 3 | Review on Screw-Related Complications and Breach Rates |
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| 22 | |
| 23 | |
| 24 | Abstract |
| 25 | Background Context |
| 26 | Severe adolescent idiopathic scoliosis (AIS) is a 3D spinal deformity requiring surgery to stop curve |
| 27 | progression. Posterior spinal instrumentation and fusion with pedicle screws is the standard surgery for |
| 28 | AIS curve correction. Vascular and neurologic complications related to screw-malpositioning are |
| 29 | concerns in surgeries for AIS. Breach rates are reported at 15.7%, implant-related complications at 1.1% |
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