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**Name of Journal:** *World Journal of Orthopedics*

**Manuscript NO:** 32678

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**Radiation exposure and reduction in the operating room: perspectives and future directions in spine surgery**

**Ankur S Narain, BA, Fady Y Hijji, Kelly H Yom, Krishna T Kudaravalli, Brittany E Haws, Kern Singh**

### Abstract

Intraoperative imaging is vital for accurate placement of instrumentation in spine surgery. However, the use of biplanar fluoroscopy and other intraoperative imaging

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... pedicle screws in deformity correction surgeries - Rajasekaran - 被引用次数: 234

A surgical safety checklist to reduce morbidity and ... - Haynes - 被引用次数: 3201

... robotics: current applications and future perspectives - Roser - 被引用次数: 30

### Minimally invasive procedures on the lumbar spine

[https://www.ncbi.nlm.nih.gov/NCBI/Literature/PubMed Central \(PMC\)](https://www.ncbi.nlm.nih.gov/NCBI/Literature/PubMedCentral/PMC/) - 翻译此页

作者: B Skovrlj - 2015 - 被引用次数: 14 - 相关文章

2015年1月16日 - Keywords: Minimally invasive surgery, Spine surgery, Lumbar spine, ... or total costs from a societal perspective during the first year following treatment. ... to reduce multifidus muscle injury while providing sufficient exposure of the ... shorter operating room times, decreased EBL, shorter LOS, lower surgical ...

### Computer-Assisted Orthopedic Surgery: Current State and Future ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4688391/> - 翻译此页

作者: G Zheng - 2015 - 被引用次数: 3 - 相关文章

2015年12月23日 - In Section 4, future perspectives will be outlined, followed by conclusion in Section 5. ... distortion despite its acquisition inducing radiation exposure to the patient. .... of objects using operating room (OR) compatible infrared light that is .... Long bone fracture reduction and spinal deformity correction are two ...

### [PDF] 30th annual meeting - North American Spine Society

<https://www.spine.org/Portals/0/Documents/AM/AM15prelimweb.pdf> - 翻译此页

The meeting provides a platform for surgeons, medical physicians, scientists and ... collaborate, hear differing perspectives, develop relationships and .... patient care and reducing medical errors. During ....

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### [PDF] Diagnostic Medical Imaging Radiation Exposure and Risk of ...

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作者: PD FABRICANT - 被引用次数: 6 - 相关文章

surgeons, hand surgeons, head and neck surgeons, trauma surgeons ... Understand the research used to govern safe radiation exposure doses. 2. .... Gain perspective on spectrum of doses of ionizing radiation from common ..... FUTURE DIRECTION ..... the operating room. .... assisted spine surgery reduce intraoperative.

### Patient Registration Using Intraoperative Stereovision in Image ... - NCBI

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: S Ji - 2015 - 被引用次数: 5 - 相关文章

2015年3月26日 - Even in the area of spinal fusion, 60% of surgeons never use image guidance, while only ... images and the patient's anatomy in the operating room (OR). ... or 3D fluoroscopy, radiation exposure (occupational and medical) from these ..... H. Image-guided spine surgery: state of the art and future directions.

### Use of 3D Printing in Complex Spinal Surgery: Historical Pe ...

mobile.journals.lww.com/.../Use\_of\_3D\_Printing\_in\_Complex\_Spinal\_Surg... - 翻译此页

Three-dimensional (3D) printing has been used in complex spinal surgical planning ... Spinal Surgery: Historical Perspectives, Current Usage, and Future Directions ... in operating time for all 26 patients.



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## Image-guided spine surgery: state of the art and future directions - NCBI

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: T Tjardes - 2010 - 被引用次数: 121 - 相关文章

2009年9月11日 - In ventral spine surgery much effort has been spent to reduce the ..... a low radiation exposure for the patient and the operating room personnel ...

## Patient and surgeon radiation exposure during spinal instrumentation ...

<https://www.ncbi.nlm.nih.gov/pubmed/26686604> - 翻译此页

作者: D Mendelsohn - 2016 - 被引用次数: 4 - 相关文章

Spine J. 2016 Mar;16(3):343-54. doi: 10.1016/j.spinee.2015.11.020. Epub 2015 Dec 10. Patient and surgeon radiation exposure during spinal instrumentation using ... to the patient when the surgical team was inside the operating room ... Navigation did not reduce the number of postoperative X-rays or CT scans obtained.

## Diagnostic Medical Imaging Radiation Exposure and Risk of ... - Healio

[www.healio.com/.../diagnostic-medical-imaging-radiation-exposure-and-risk...](http://www.healio.com/.../diagnostic-medical-imaging-radiation-exposure-and-risk...) - 翻译此页

作者: PD Fabricant - 2012 - 被引用次数: 6 - 相关文章

2012年5月1日 - Orthopedics | Limiting patients' exposure to ionizing radiation during diagnostic ... Although an increased risk of future malignancy exists, the ... Future Direction ... expensive way to reduce radiation exposure in the operating room is ... computer-assisted spine surgery reduce intraoperative