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Computer navigation-assisted, minimally invasive, percutaneous screw placement for pelvic fractures

Yu T *et al.* Pelvic fractures

Tong Yu, Xue-Liang Cheng, Yang Qu, Rong-Peng Dong, Ming-Yang Kang, Jian-Wu Zhao

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Computer Navigation in Minimally Invasive Spine Surgery

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6942055

Nov 07, 2019 · Introduction. **Computer** navigation has allowed for more accurate and thus safer **placement** of spinal instrumentation. Although navigation was initially used mainly in conventional open approach spine surgery, proliferation and increasing utilization of **minimally invasive** surgical techniques prompted the adoption of navigation in **minimally invasive** surgery (MIS) as well.

Author: Jonathan N. Sembrano, Sharon C. Yson...Publish Year: 2019

Minimally invasive surgery under fluoro-navigation for ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4885292

The mean time from injury to **percutaneous screw** fixation of the anterior **pelvic ring fracture** was 12 days (3–15 days). All the anterior ring **fractures** were fixed with cannulated **screws** by two senior surgeons. They were familiar with the navigation system and had gained much experience in the **computer**-assisted **percutaneous placement** of **screws**.

Robot-assisted percutaneous screw placement combined with ...

https://www.ncbi.nlm.nih.gov/pubmed/29920914

CONCLUSION: TiRobot-assisted **percutaneous screw placement** combined with INFIX for the anterior and posterior **pelvic** ring injuries is accurate, safe, less **invasive**, and shows satisfactory efficacy, suggesting it is a better method for **minimally invasive** treatment of unstable **pelvic ring fractures**.

Cited by: 4Author: Hua-shui Liu, Sheng-jun Duan, Shi-dong Liu,...Publish Year: 2018

Fluoroscopically assisted computer navigation enables ...

https://www.sciencedirect.com/science/article/pii/S0020138315000649

This **minimally invasive** approach has been shown to be a safe alternative to open fixation, with lower rates of bleeding and infection , , . **Percutaneous screw** insertion, however, is a demanding procedure requiring adequate reduction of the **fracture** and accurate **screw** fixation across narrow safe corridors.

Cited by: 29Author: James Min-Leong Wong, Sam Bewsher, Jie...Publish Year: 2015

Three-dimensional navigation-guided percutaneous screw ...

https://link.springer.com/article/10.1007/s00264-017-3659-z

Oct 23, 2017 · Navigation assisted **minimally invasive percutaneous screw** fixation (MIS) for pelvi-acetabular **fracture** was recently advocated. We report 38 consecutive cases of pelvi-acetabular **fractures** treated with 3D navigation-guided MIS from 2015 to 2016. One hundred and forty-three **screws** were inserted (59 sacroiliac, 45 retrograde anterior column, 34 supra-acetabular, three antegrade posterior ...

Cited by: 8Author: King Him Chui, Chi Chiu Dennis Chan, Ka C...Publish Year: 2018

Minimally Invasive Screw Fixation of Unstable Pelvic ...

https://www.hindawi.com/journals/bmri/2019/1524908

The corridor **screw** technique is the core of **minimally invasive screw** fixation for **pelvic fractures**. However, performing an optimal insertion of various **pelvic** corridor **screws** is full of difficulties and challenges, especially for the insertion of S1/S2 IS **screws** and superior ramus **screws** (antegrade or ...

Author: Kaifang Chen, Sheng Yao, Fan Yang, De...Publish Year: 2019

(PDF) Robot-assisted percutaneous screw placement combined ...

https://www.researchgate.net/publication/325859199...

Robot-assisted **percutaneous screw placement** combined with **pelvic** internal fixator for **minimally invasive** treatment of unstable **pelvic ring fractures**

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Publish Year: 2018

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[Computer Navigation in Minimally Invasive Spine Surgery](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6942055>

Nov 07, 2019 · With the use of **computer** navigation, surgeons could reap the benefits of **minimally invasive** surgery and, at the same time, improve **screw placement** accuracy and minimize radiation exposure. In 2009, Nakashima et al. [2] published a retrospective study comparing navigated MIS versus MIS **screws** placed using conventional fluoroscopy.

Author: Jonathan N. Sembrano, Sharon C. Ys... **Publish Year:** 2019

[Robot-assisted percutaneous screw placement combined with ...](#)

<https://www.ncbi.nlm.nih.gov/pubmed/29920914>

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Publish Year: 2018

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[Robot-assisted Minimally-invasive Internal Fixation of ...](#)

<https://onlinelibrary.wiley.com/doi/full/10.1111/os.12423>

Minimally-invasive fixation using combined sacroiliac and **anterior column screw placements** is an alternative **surgical approach** to the **treatment** of anterior and **posterior pelvic ring fractures** 10, 11.

Author: Hua-shui Liu, Sheng-jun Duan, Fu-zh... **Publish Year:** 2019