Integrating robotics into a minimally invasive transforaminal interbody fusion workflow

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Minimally invasive transforaminal lumbar interbody fusion (MIS TLIF) is a well-accepted procedure with good outcomes. Robotics has the potential to augment these outcomes. This video demonstrates and discusses how surgeons can implement the use of a robotic device in an MIS TLIF workflow. The planning software and robotic arm guidance allow the surgeon to use intraoperative CT to guide the placement of pedicle screws in an MIS TLIF with optimal trajectory and decreased radiation. As robotic technology continues to improve, developing safe workflows that integrate robotics with currently well-established techniques should improve patient outcomes.

The video can be found here: <https://youtu.be/rJWOa6XVLW0>.

KEYWORDS minimally invasive; robotic; spinal fusion; stereotactic navigation; transforaminal lumbar interbody fusion; video

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