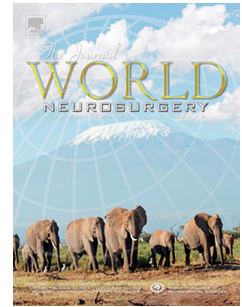


# Accepted Manuscript

## Intraoperative Fluoroscopy for Ventriculoperitoneal Shunt Placement

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# INTRAOPERATIVE FLUOROSCOPY FOR VENTRICULOPERITONEAL SHUNT PLACEMENT

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## Highlights:

- Most of intraoperative tools used to improve the accuracy of catheter insertion are time consuming and expensive or do not provide information on the final position of the catheter.
- Biplanar fluoroscopy offers a high sensitivity and positive predictive value in estimating an optimal intracranial catheter position.
- The use of intraoperative fluoroscopy significantly decreases early surgical revisions in adult patients undergoing VP shunt placement.
- We conclude that intraoperative fluoroscopy is an easy to implement and commonly available tool that offers a fast, simple and reliable method to intraoperatively assess the cranial shunt catheter placement.

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