



## Surgical Considerations for Intrathecal Implantation

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### Abstract

In humans, intrathecal access is a common clinical procedure. Intrathecal implantation is not a common surgical procedure, and intrathecal access is only used for drug administration in rodents. We effectively used various intrathecal implantation surgical techniques for various implant materials in animals in preclinical settings. However, choosing the best intrathecal implantation technique can be difficult for surgeons because it involves a number of processes, including preoperative assessments and after care. The purpose of this review is to identify, evaluate, and contrast the

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A. 12 ... (=0.05, ...). 7.

C ... C ... 28 ... C ... C ... 6 ... C ... C ... 7. A ... C ... C ...

E ... C ... C ... C ... C.E ... C ... 8.

C ...

( =.011 ... =.038, ...). I, ... (>.05 ...). 9-10.

C ... C ... A ... G ... H ... C ... ☒