

Arachnoid closure making use of the fibrin membrane. [Japanese]

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Abstract:

The fibrin glue has been applied as an adjunct to dural closure. Particularly, it may be a useful material as a prophylactic measure in some patients in whom the dural closure is potentially inadequate and for patients with established the cerebrospinal fluid (CSF) fistulae. But, the CSF leakage and collection in the subdural, epidural and subcutaneous space are postoperative complication in some cases. Opening the arachnoid membrane causes of the CSF leakage. The authors describe an arachnoid closure method of preventing CSF leakage making effective use of a fibrin membrane. The fibrin membrane is made by the spray method of fibrin glue and tolerated water-pressure over 80 cmH₂O. The arachnoid defects are covered with the fibrin membrane. Then the fibrin membrane adhere to the arachnoid membrane with fibrin glue. The use of this technique might be reduced the incidence of postoperative CSF complication.