



Patient presents with shunt malfunction

No suspected infection

Suspected infection

Consider for study

Remove shunt and treat with EVD and intrathecal antibiotics until infection cleared

1. Ventricular anatomy making an endoscopic procedure feasible (may need MRI)
2. Age greater than one year

1. Age less than one year
2. Ventricular anatomy unsuitable
3. Patients who would not be suitable for a shunt
4. Patients whose condition is such that urgent surgical intervention is needed and time for enrolment is not available
5. Patients who are unable to give consent and there are no available next-of-kin

Randomisation from sealed envelopes

Randomisation

ETV

Revision of shunt

MRI minimum 6 weeks after surgery

MRI or CT minimum 6 weeks after surgery

Cannot enter study

Further surgery for hydrocephalus in less than 1 year following surgery

Yes

No

Failed treatment

Proforma filled in determining cause of failure, timing of failure, outlining complications other than failure and number of visits within year related to hydrocephalus

Successful treatment

Proforma filled in outlining complications other than failure, whether symptomatic or not and number of visits within year related to hydrocephalus