**Screening**
Hydrocephalus patients requiring treatment with a new ventriculoperitoneal shunt (VPS) screened for eligibility

**CONSENT**

**Pre-operative assessment**
- Data collection – medical history & baseline demographics

**RANDOMISE (In theatre)**
- Antibiotic-impregnated VPS
- Silver-impregnated VPS
- Standard silicone VPS

**Surgery**
- CSF & blood sample for sub-study and microbial assay at insertion
- Data collection – operation details, VPS data

**48 hours post op**
- Post-operative recovery / complications
- Signs & symptoms of VPS infection / malfunction
- Post-op CT / MRI according to local unit practice

- CLEAR CSF

**Day 8 to month 30 post-op**
- Adverse events
- Signs & symptoms of VPS failure (infection, mechanical, functional, patient)
- Scheduled and unscheduled visits
- Telephone and postal questionnaires

**3 monthly follow-up**
- Telephone and postal questionnaires

**Shunt revision**
- Reason for surgery
- Data collection – operation details, VPS data
- CSF/Blood sample for sub-study

**Mechanical problem**

**Infection**

**Continue follow-up for safety analysis**