Basics of burr hole placement, chronic subdural haematoma and brain abscess drainage

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Burr hole placement

• History
• Instruments
• How to perform
• Standard burr hole (key burr hole)
• Complications and avoidance
• Surgery performed only with burr holes
History

- Trepanation
- Cure for mental disorder, migraine, seizures
- Prehistoric evidence
Instruments
How to perform

• Strip the pericranium
• Perpendicular to skull
• When to stop using perforator
• How to use burr
• Remove inner bone
• Don’t strip the dura more
Key burr hole

Exploratory burr hole
Complications and avoidance

• Plunge
• EDH
• Sinus bleed
• Motor stuck
• Inner table not pierced
• Any other????
Surgery with only one burr hole

- Chronic SDH
- VP shunt
- STB
- DBS
- Biopsy of dura
- ETV
- Any other?????
Chronic SDH drainage

• Incision
• Frontal and parietal burr hole
• Control bleeding
• Open dura
• Irrigation
• Closure
• Drain or no drain ????
Brain abscess drainage

• Identify location
• Can use marker to localize
• Burr hole open dura, brain cannula
• Aspirate
• Wash
• Closure
• Indication for excision???
Complications of abscess drainage???
Thank you, sorry for screwing

Watch the videos