

The multidisciplinary management of aneurysmal subarachnoid haemorrhage at term

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Preoperative notes and plan

41/40 transfer to tertiary centre from DGH

Age: 26

Weight: 76kg

ASA: 3E

M/F: F

OD: Immediate

urgent, expedited,

Procedure(s) proposed:
Caesarean delivery + EVD

Anaesthetist's preoperative assessment by Dr _____ Midnight
(date: / / time)

- 1 day ago sudden onset severe headache
- Normal MRV at that time, Δ migraine
- Collapse today, Δ acute large volume SAH,
- GCS 15, nil focal deficit, Normal CTG

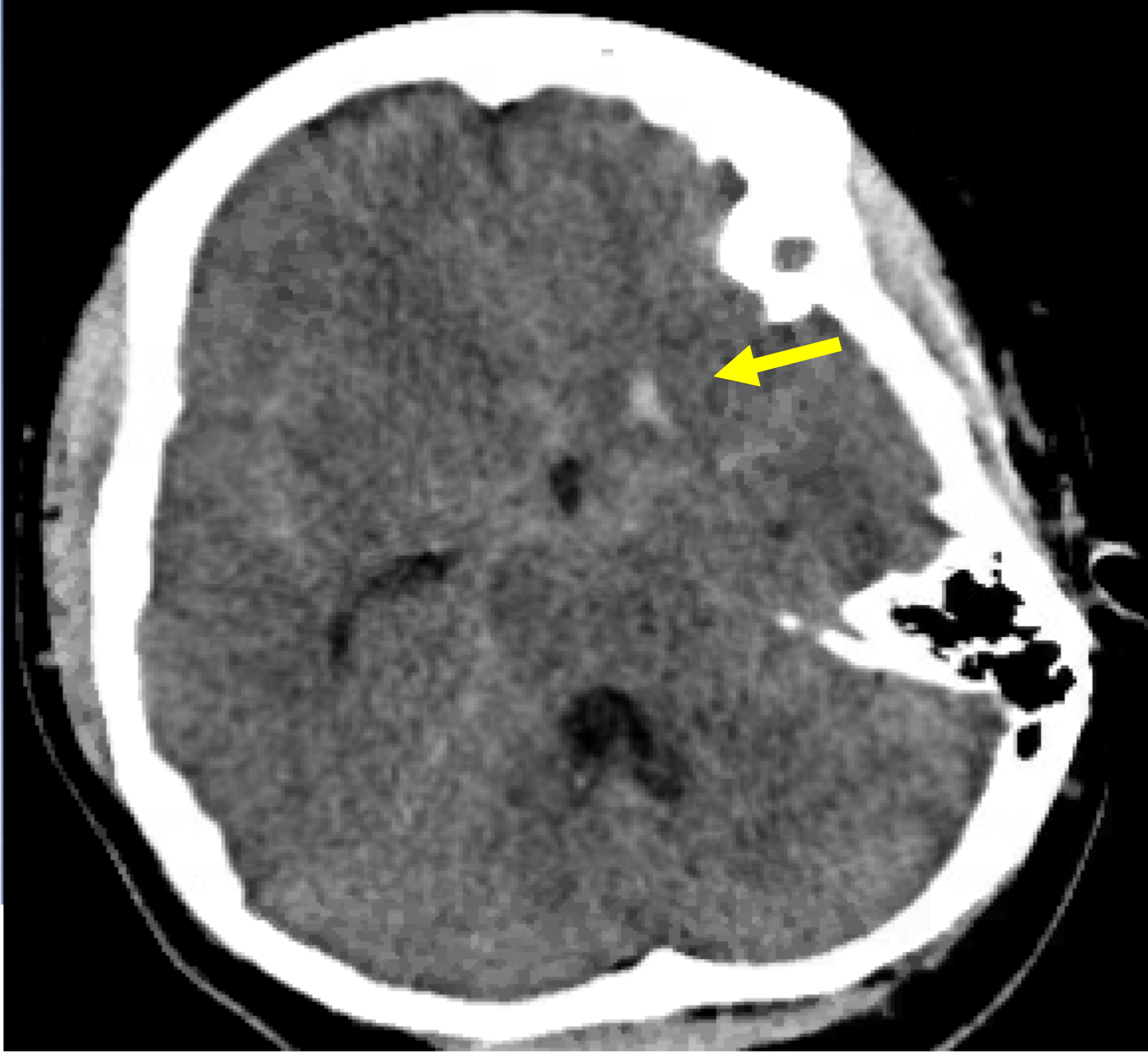


Figure 1. Presenting CT head, post-collapse

The risk of stroke among pregnant and postpartum women is around **three times greater** in comparison with non-pregnant women of similar age, and is the **most frequent cause** of serious long-term disability after pregnancy¹.

Induction

Summary

Outcome

Follow-up

Location: Neuro theatres with 5 teams
1) Obstetricians 2) Neurosurgery 3) Neonates 4) Obs Anaes 5) Neuro Anaes
Prep: Awake arterial line, draped pre induction
GA: Modified RSI propofol + remifentanyl, rocuronium + phenylephrine
Uneventful intubation (VL) Maintenance: TIVA

Healthy male infant born 4 minutes after knife to skin
Cardiovascular stability throughout
Total obstetric operating time: 54 minutes followed by extraventricular drain (EVD), EBL 500mL
Skin to skin under GA facilitated at request of mother

Remained intubated and ventilated on neuro ICU post-operatively
Angiography and successful clipping of 7mm ICA aneurysm later that morning
Discharged from neuro ICU following day
Uncomplicated two-week admission

9 month follow-up:
Some fatigue and intermittent headache
No other neurological sequelae

Key factors contributing to favourable outcome



DGH Team: prompt identification of a neurosurgical emergency



Rapid transfer to definitive care



Appropriate consideration of term pregnancy, however decisions not impeded by this



Anaesthetic and theatre teams from both sub-specialties



Combined experience of routine practice to perform to a high standard in the service of mother and baby, even out of hours



Facilitating skin to skin with neonatal team

Reference

1. Elgendy, S. Bukhari, A. Barakat et al. Maternal Stroke: A Call for Action. *Circulation*. 2021; 143:7