

Acute Type A Aortic Dissection in a Patient with Undiagnosed Giant Cell Arteritis

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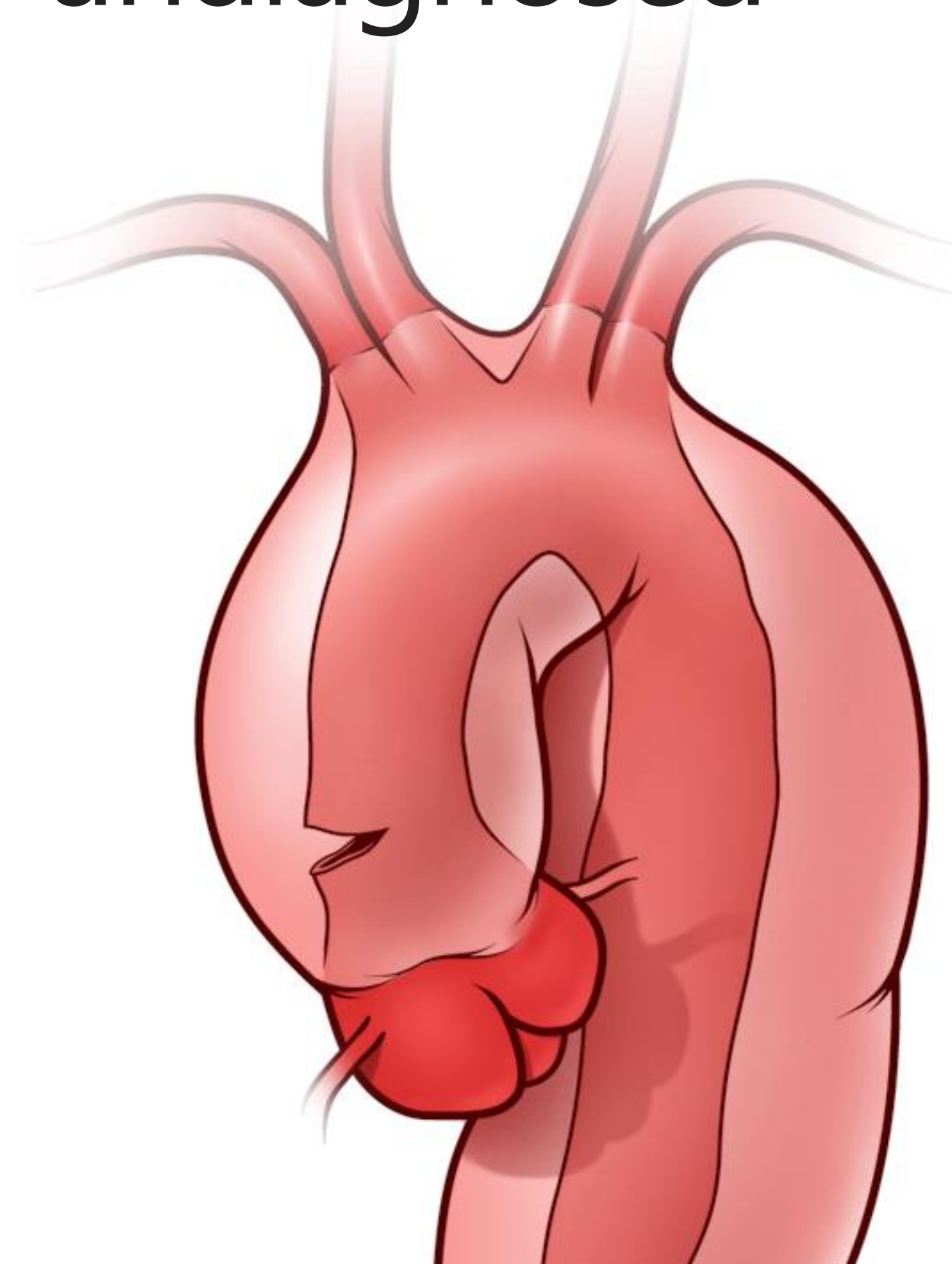
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Introduction

Acute type A dissection (ATAD) is an extremely rare complication in a patient with previously undiagnosed giant cell arteritis (GCA)



Case Report

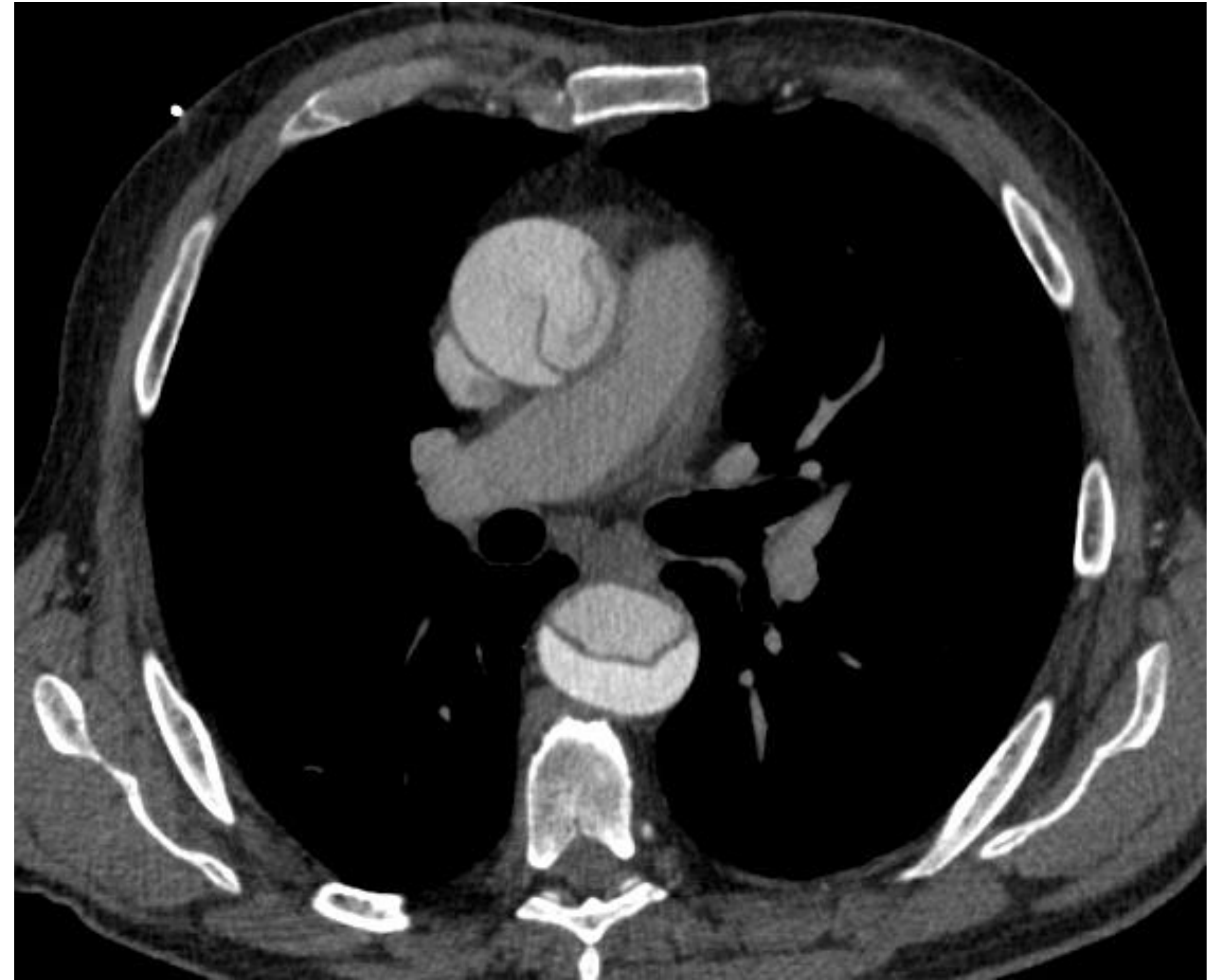
We present a successful repair of acute ATAD complicated cerebral malperfusion in a patient with undiagnosed GCA

Case

73 years old, Male

- Back pain
- Altered mental status

PMH: Unknown



Ascending aorta 40 mm

Preoperative CT showed occluded innominate artery



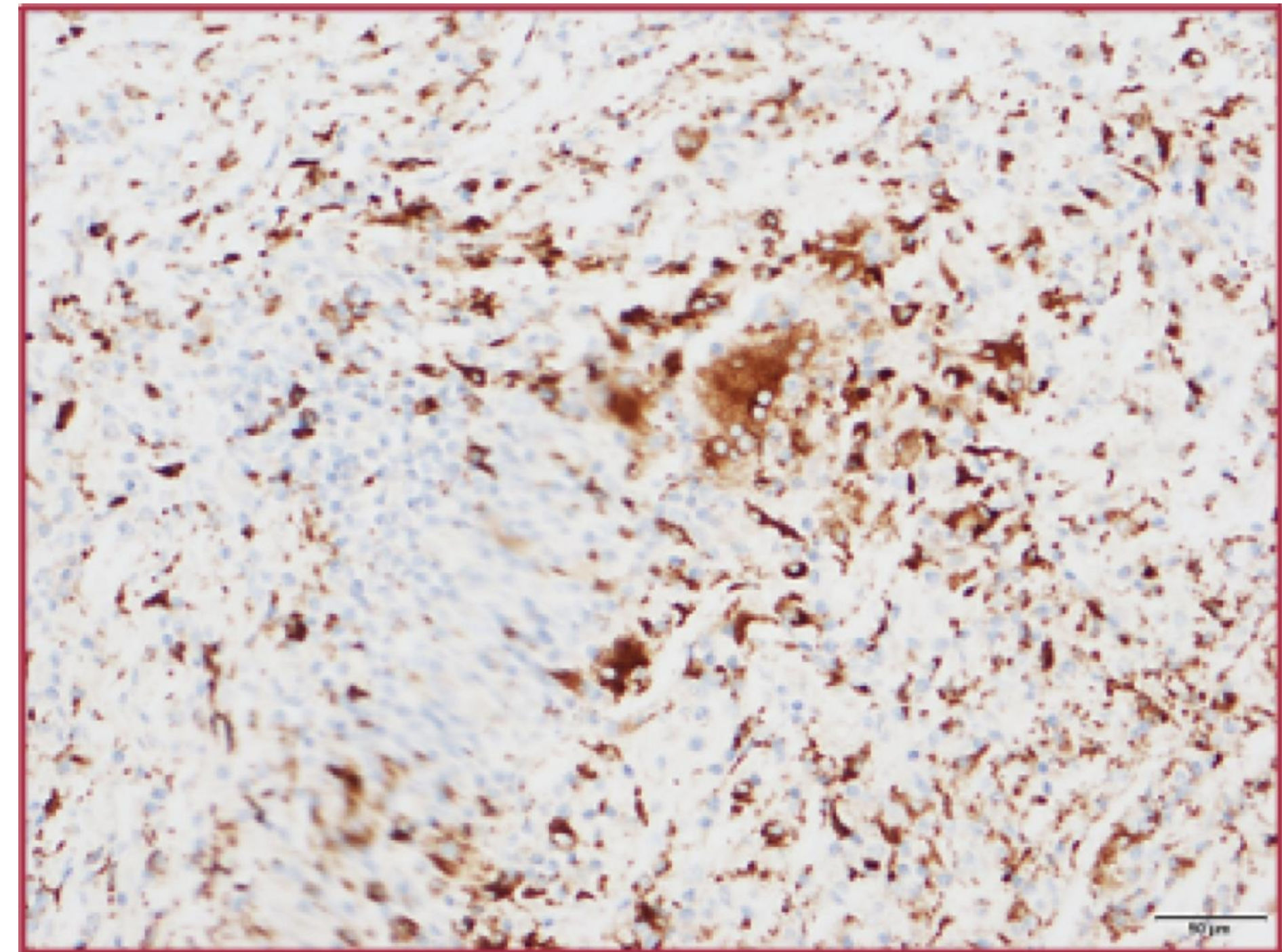
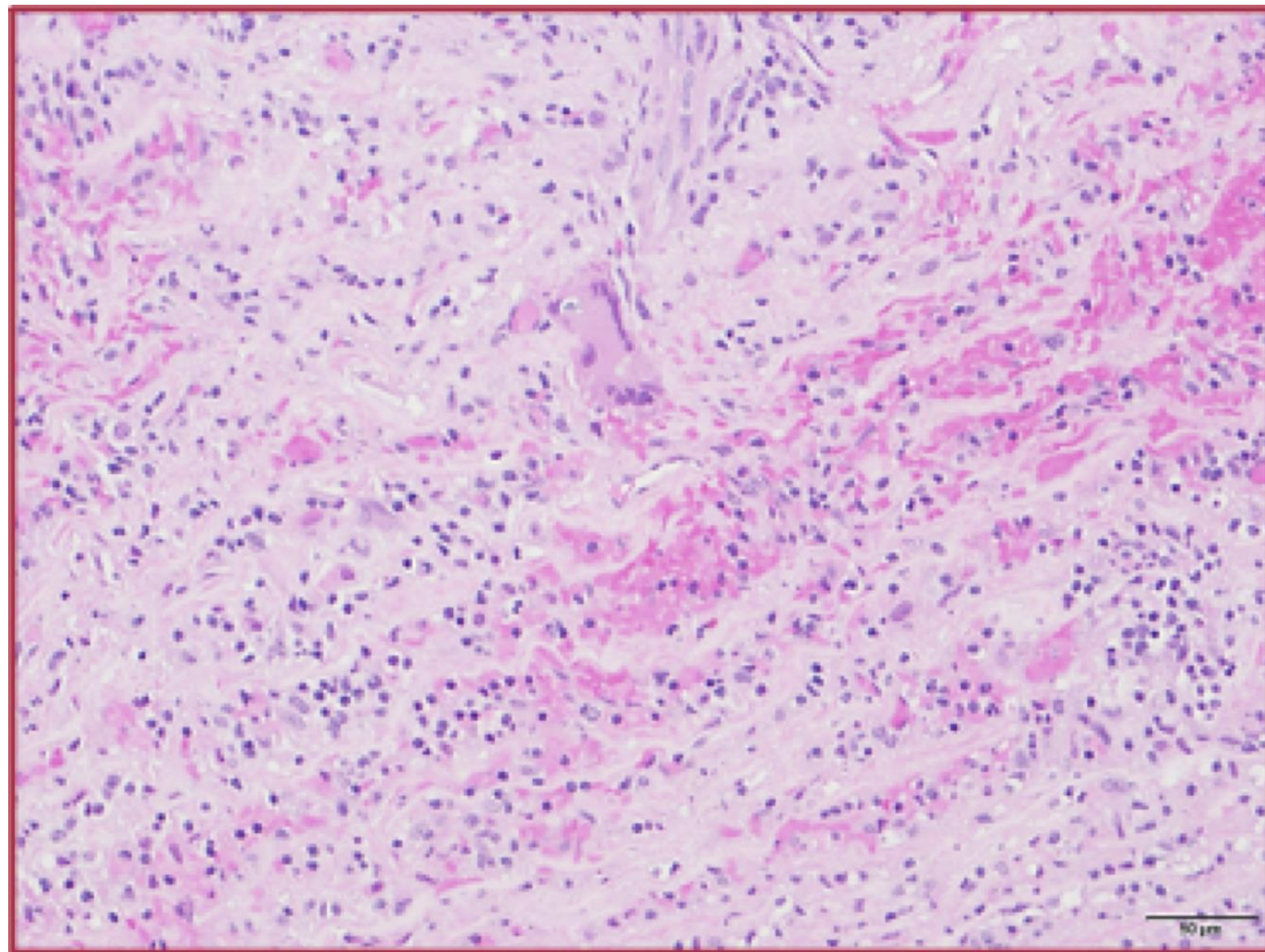
Operation

Zone 1 arch repair
with a bypass to innominate artery

- Central cannulation
- Retrograde cerebral perfusion
- Circulatory arrest time 28 min
- Lowest temperature 21.6 °C

Histopathological analysis

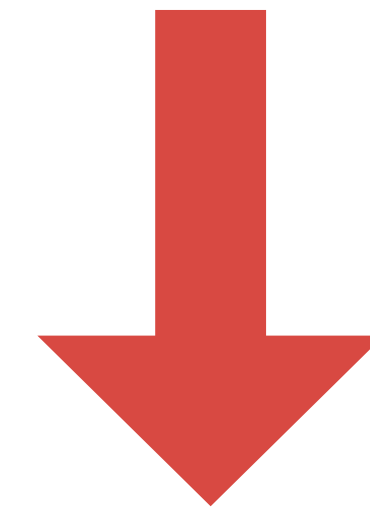
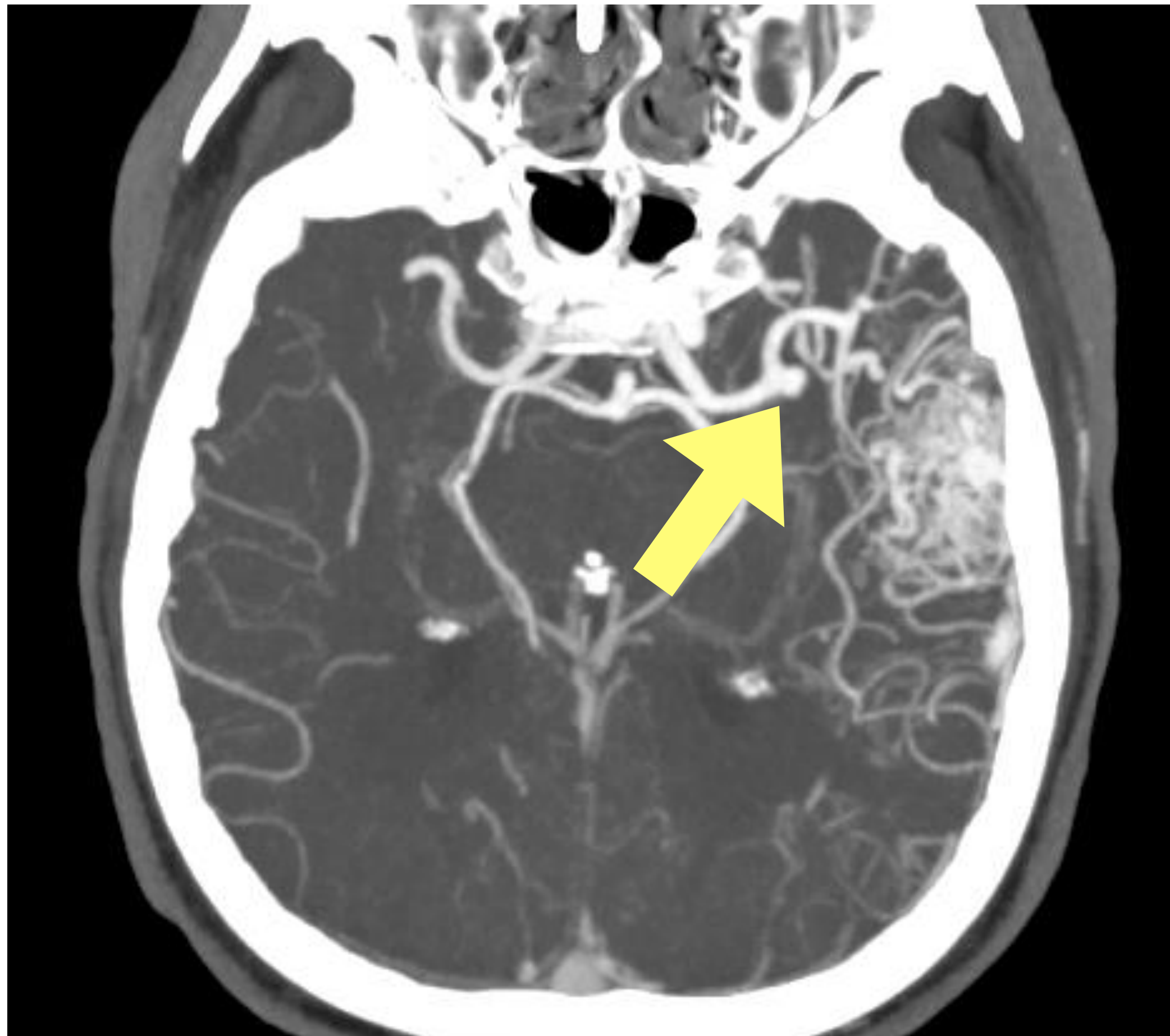
Diffuse transmural lymphoplasmacytic infiltration
with giant cells, consistent with GCA



Postoperative course

- Prolonged altered mental status
- Reintubation due to pneumonia

CT showed a **cerebral aneurysm** and arteriovenous malformation



Steroid therapy

Conclusions

The surgical outcome of GCA related ATAD was acceptable, even though the patient complicated with cerebral malperfusion.

It also highlights the necessity of vigilant assessment for large vessel complications, including cerebral aneurysm, and the importance of early steroid therapy in this unique patient population.