

AN INTRODUCTION TO ANAESTHESIA FOR NEUROSURGERY

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Introduction

Anaesthesia for neurosurgical procedures requires understanding of the normal anatomy and physiology of the central nervous system and the likely changes that occur in response to the presence of space occupying lesions, trauma or infection.

In addition to balanced anaesthesia with smooth induction and emergence, particular attention should be paid to the maintenance of an adequate cerebral perfusion pressure (CPP), avoidance of intracranial hypertension and the provision of optimal surgical conditions to avoid further progression of the pre-existing neurological insult.

Aims of neuroanaesthesia

- To maintain an adequate cerebral perfusion pressure (CPP)
- To maintain a stable intracranial pressure (ICP)
- To create optimal surgical conditions
- To ensure an adequately anaesthetised patient who is not coughing or straining
- To enable rapid return to consciousness to allow neurological assessment postoperatively

General considerations for craniotomy

The patients

- Acute neurological condition or injury possibly with intracranial hypertension
- Medical therapy – anticonvulsants
- Pre-existing medical problems

The procedure

- Long operation time
- Blood loss
- Surgical stimulation / brain stem manipulation

The practicalities

- Position
- Access (intravenous and access to the airway)
- Invasive monitoring

Postoperative care

- Rapid recovery and neurological assessment
- Balanced analgesia to avoid sedation

General considerations for other procedures e.g. burr holes and shunts

The patients

- Often extremes of age

- Intracranial hypertension
- Associated conditions or trauma

The procedure

- Short procedure time
- Great surgical stimulation whilst shunt is tunnelled

The practicalities

- Supine position
- Invasive monitoring for burr hole

Postoperative care

- Rapid recovery and neurological assessment

Physiological Principles

Cerebral perfusion pressure and the intracranial pressure/volume relationship

Maintenance of adequate blood flow to the brain is of fundamental importance in neuroanaesthesia. Cerebral blood flow (CBF) accounts for approximately 15% of cardiac output, or 700ml/min. This equates to approximately 50ml/100g of brain tissue per minute under normal conditions. The brain is contained within the cranial vault which is non distensible and has a fixed volume. Cerebral blood flow is therefore affected by the pressure within the cranial vault and a useful measure of this is the cerebral perfusion pressure, the effective pressure which results in blood flow to the brain. Cerebral perfusion pressure (CPP) is the difference between the mean arterial pressure (MAP) and the sum of the intracranial pressure and the central venous pressure (CVP):

$$CPP = MAP - (ICP + CVP)$$

Under normal conditions, the ICP remains at 5-12 mmHg, the venous pressure at the base of skull is zero, and CPP varies with the individual's MAP. CPP is reduced in the presence of raised ICP, raised venous pressure or low MAP. Therapeutic measures to maintain optimal CPP are therefore aimed at maintaining MAP whilst lowering ICP and avoiding venous obstruction or hypertension.

Autoregulation is the ability of the brain to maintain stable CBF in the face of a changing MAP/CPP. As shown in figure 1, this is achieved by alterations in cerebrovascular resistance. The calibre of intracranial vessels alters automatically – vessels dilate if perfusion pressure is low (or if metabolic activity in one region is high). Under normal conditions, cerebral blood flow is kept at a stable level over a range of cerebral perfusion pressures between 50 and 150mmHg.

Clinical Considerations In Neuroanesthesia And Neurosurgery

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