



**National ESMOE guidelines
for district and regional hospitals
PROTOCOL FOR CAESAREAN SECTION
UNDER GENERAL ANAESTHESIA**



PREPARATION

Full history and examination

- NB airway and assess difficulty of intubation
- NB signs of hypovolaemia - decide whether the patient requires resuscitation first

Prepare the patient

- Premedication – sodium citrate 30ml orally, 0 - 30 minutes pre-operatively
- Good IV access, with 500ml clear fluid given as preload
- Urinary catheter

Prepare the theatre

- Full machine check, check ventilator settings
- Check essential equipment and monitoring (ECG, NIBP, SpO₂, capnograph)
- Draw up essential drugs

TECHNIQUE

Position the patient

- Wedge under right hip
- Head and shoulders on a pillow, sniffing

Administration of general anaesthesia

- Measure NIBP now, and every 3 minutes
- Establish ECG and pulse oximetry
- Pre-oxygenate 100% FiO₂ for 3 minutes
- Start the suction, place Yankauer nearby
- Perform rapid-sequence induction with cricoid pressure, then perform laryngoscopy and intubation
- Confirm correct placement of ETT by capnography, auscultation and clinical impression of chest moving equally
- Ventilate, using at least 40% oxygen and not more than 1 MAC volatile
- Use small doses of short-acting muscle relaxant if necessary

Failed intubation

- Call for help, and try to wake patient up
- Institute mask ventilation while maintaining cricoid pressure

If successful mask ventilation:

- (i) Check head position, change to a different laryngoscope blade, assistant to externally manipulate the cricoid, and re-attempt intubation.
- (ii) If still unsuccessful, decide whether to continue with mask ventilation OR with spontaneous ventilation OR attempt insertion of LMA OR awaken the patient

If unsuccessful mask ventilation:

- (i) One further intubation attempt OR attempted insertion of LMA
- (ii) If still unsuccessful and unable to ventilate, and spontaneous ventilation has not resumed, perform an emergency cricothyrotomy (or tracheostomy), and ventilate the patient.
- iii) Decide whether to continue with the procedure or wake the patient up

After delivery

- Ask obstetrician if they are certain there is no second baby
- Give 2.5 IU oxytocin IVI slowly, over 1 minute
- Can increase volatile, and give multimodal analgesia – morphine 10mg, consider fentanyl 100ug, non-steroidal anti-inflammatory, paracetamol, and infiltrating the wound with local anaesthetic.

Once the surgery is completed

- Switch off the volatile, and give reversal if a non-depolarising muscle relaxant was given use nerve stimulator or see signs of spontaneous recovery first.
- Extubate in theatre, awake and reversed

RECOVERY

Monitoring

- Administer oxygen via 40% venturi mask
- Monitor NIBP and SpO₂
- Make sure that the patient is not bleeding
- Make sure that the patient is well analgesed
- Infuse 20 IU oxytocin in one litre of clear fluid over 8 hours (125mls/hr)

Discharge to the ward