PATIENT RECOVERY

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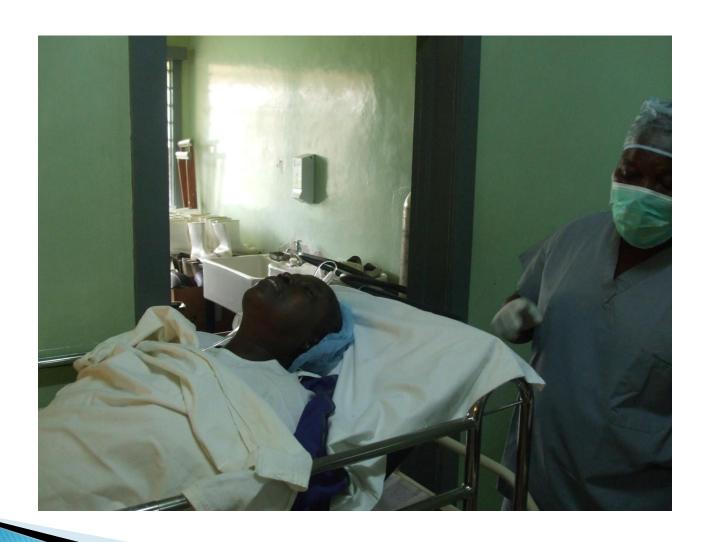
IDEAL RECOVERY SET UP

- Dedicated area for recovery in the theatre suite
- Recovery nurses trained experienced
- One nurse to one patient remaining with patient until consciousness and airway reflexes return
- All beds and trolleys should tip head down and have side bars and pillows

IDEAL RECOVERY SET UP contd

- Each bed space should have:
- Oxygen supply with appropriate face mask
- Self inflating resuscitation bag and mask
- Pulse oximeter
- BP machine
- Suction apparatus
- Surgical emergency cover and theatre staff available anytime for complications and emergencies

RECOVERY



PATIENT IN THEATRE

- Closely supervised patient is anaesthetised but safe with presence of anaesthetist, nurses, surgeons
- Monitored BP, HR, oxygen saturations, ECG
- On oxygen

ANAESTHETIC SUPERVISION



EARLY RECOVERY PERIOD

- Recovery starts as soon as patient leaves operating table and the direct supervision of the anaesthetist
- Patient handed over to qualified recovery nurse in dedicated recovery area
- Long cases straight onto bed
- Short case trolley
- Very obese trolley

PATIENT HANDOVER

- Name and age
- Relevant past medical history
- Type of anaesthetic given
- Type of operation and blood loss
- IV fluids, blood and pain relief given during operation
- Post-operative pain relief an IV fluids on drug chart
- When patient can drink and eat

PATIENT MONITORING

- Monitors
- ▶ BP
- HR
- Oxygen saturation

CLINICAL OBSERVATION

- Respiratory rate and depth of ventilation
- Peripheral circulation
- Level of consciousness
- Input-output chart and urine output
- Blood sugar monitoring if necessary

MAJOR SURGERY/HIGH RISK

- Continuous measurement of the following:
- **ECG**
- Intra-arterial BP
- CVP central venous pressure
- Urine output
- Input-output chart
- Drains and wound blood loss

SYSTEMS AFFECTED

- Respiratory system
- Cardiovascular
- Central nervous system
- Gastro-intestinal system
- Haematological

RECOVERY MANAGEMENT

- A Airway
- B Breathing
- C Circulation
- D Drugs
- ▶ E Exposure
- Level of consciousness
- Positioning of patient

A – AIRWAY

- Patent airway
- Listen for or feel for respiration
- Use of oxygen
- Correct airway obstruction tongue, blood secretions, laryngospasm, swelling
- Use of airway adjunct

B - BREATHING

- Rate
- Rhythm
- Depth
- Regularity
- Saturation/ Respiratory rate
- Colour
- Need for oxygen

BREATHING

- Residual GA drugs sedatives, opioids
- High spinal block intercostal muscles and diaphragm paralysis
- Sedation
- Residual muscle relaxant
- Medical condition of the patient

C - CIRCULATION

- ▶ BP
- Heart rate
- Colour of peripheries
- Temperature of peripheries
- Peripheral perfusion
- Peripheral pulses
- Urine output
- Fluid input-output chart IV fluids, oral fluids, blood, urine, drain output, vomit

CIRCULATION

- Low BP/Hypotension :
- Residual IV or inhalational anaesthetic drugs.
- Inadequate fluid input
- Inadequate haemostasis/Continued bleeding
- Disseminated intra-vascular coagulation
- Pre-existing bleeding tendencies
- Anti-coagulant drugs warfarin, heparin, aspirin, garlic, fish oils,

CIRCULATION

- Arrhythmias
- Ventricular failure LVF associated with myocardial infarctions
- Septic shock
- Hypertension from
- Pain
- Pre-existing uncontrolled BP
- Hypoxaemia

D - DRUGS

- Pain relief
- Antibiotics
- Anti-emetics
- Anticoagulants
- Patient own medications
- IV fluids and blood
- Oxygen

E – EXPOSURE

- Drains
- Dressings
- NG bag output
- Operation site for swelling of haematoma
- IV access sites

LEVEL OF CONSCIOUSNESS

- Respond to name
- Maintain own airway
- Lift head off bed
- Stick tongue out
- Squeeze your fingers
- Know where they are
- Tell level of pain or comfort

EFFECTS ON CNS

- Impaired consciousness depends on:
- Drugs used-volatile agents, barbiturates, long acting opioids, benzodiazepines
- Timing of drug use: long acting drugs given towards end of procedure
- Potent analgesia or local anaesthetic
- Pain-speeds recovery
- Hypoglycaemia
- Hypoxia
- Hypothermia

RECOVERY DOCUMENTATION

- Pulse rate
- ▶ BP
- Respiratory rate
- Temperature
- Level of consciousness
- Pain score
- Sensory level in regional anaesthesia
- Drug and fluid administration and blood loss

EXTRA OBSERVATIONS

- Pain relief
- Bleeding drains, dressings
- Nausea and vomiting
- Allergic reactions rash, swelling of face tongue with drooling of saliva and airway obstruction, redness, wheezing, low BP,

EXTRA OBSERVATIONS

- Report deteriorating observations of CVS, CNS, GIT and respiratory system.
- Appropriate positioning of patient in bed, on trolley
- If in any doubt call anaesthetist or surgeon
- Post-op medication and fluids written up

DISCHARGE CRITERIA

- Fully conscious patient
- Good pain relief, no nausea and vomiting
- Maintaining own airway, good ventilation and oxygenation
- Protective reflexes all returned gag, cough
- Stable BP and HR appropriate to post-op care and pre-op BP and HR values

DISCHARGE CRITERIA contd

- Adequate peripheral perfusion
- Temperature within acceptable limits
- High risk/Major surgery patients to stay in recovery 24hrs or HDU/ITU
- Pain relief, medications and IV fluids written on drug chart

DISCHARGE CRITERIA contd

Nurse takes direct care of patient in recovery but discharge is only with anaesthetist's consent.

Anaesthetist has responsibility towards patient for first 24 hours

SUCCESSFUL RECOVERY



THANK YOU



HIP REPLACEMENT





Bil. SC AVN diseases

Cementless - ceramic on ceramic.





LIGNOCAINE WITH ADRENALINE!!

