Checking of Anaesthetic Equipment 2016 - 2017

Description
Anaesthetic practice involves the extensive daily use of equipment. Routine checking of this equipment is essential in the safe delivery of anaesthetic care. This session provides an overview of the principles of checking the anaesthetic equipment used in current common practice, in accordance with the recommendations of the Association of Anaesthetists in Great Britain and Ireland.
Session introduction

Learning objectives:
• Describe the tests performed in checking the anaesthetic equipment.
• Identify potential equipment malfunctions in anaesthetic practice.
• Recognize the design modifications of modern anaesthetic equipment to prevent such malfunction.
The anaesthetic machine
  Monitoring equipment
None – invasive blood pressure
Medical gas supply
pipeline supply
Medical gas supply
reserve gas cylinders
Checking pressure gauges
Medical gas supplies
mechanical flowmeters
mechanical flowmeters
testing the anti-hypoxia device
Oxygen flash
oxygen bypass
Vaporizers
anti-spill design
Vaporizers
the risk of leaks
Vaporizers maintenance
  Leak testing
Scavenging
Suction equipment
Ancillary equipment
  Laryngoscopes
Intubation aids
Airways equipment
Single use device
Back-Up Systems
Record Keeping
Session key points

• Routine checking of equipment is essential in the safe delivery of anaesthetic care
• Ensure that you have turned on anaesthetic machine after connecting it to the mains supply
• Check the gas supply; both piped gases and cylinders
• Make sure that the monitoring equipment is working adequately
• Ensure that various components of the anaesthetic machine are functioning correctly – flowmeters, vaporizers, oxygen emergency flash, scavenging system and suction system. Also check for leaks
• Check the breathing system and its components
• Ensure the availability of different airway management devices
• When possible, use single – use devices
• In cases of anaesthetic machine failure, have available means of ventilation and administration of oxygen
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