Guide to checking the PICU Boyle's Anaesthetic Machine

GET AN EXPERIENCED STAFF MEMBER TO SHOW CORRECT CHECKING OF THIS MACHINE IF YOU ARE UNFAMILIAR WITH IT. It is the medical staff's responsibility to ensure this machine is in correct order prior to patient use.

Check all service dates and ensure they are current, if due or near due please inform a technologist.

GAS SUPPLY:

- Turn off the O2 (black) and N2O (blue) cylinders using the black hand wheel on top of the cylinder
- Turn on the O2 and N2O flow meters (turn each knob anticlockwise 1 turn)
- Turn on the O2 cylinder: the O2 bobbin rises and the N2O bobbin does not. Is the O2 cylinder full?
- Turn on the N2O cylinder: the N2O bobbin rises. Is the N2O cylinder full?
- Turn off the N2O cylinder; leave the N2O flow meter on until its bobbin falls
- Press the red button on the right-hand end of the back bar. Delivers high flow of gas (O2)?
- The black button next to the red button is a 50cm H2O pressure-release valve
- Turn the oxygen cylinder off last otherwise machine will alarm, a loud high-pitched noise. If this happens, turn on the O2 cylinder, turn on the N2O flow meter and check that the N2O cylinder is turned off.

VAPORISERS:

THERE SHOULD BE

- Sevoflurane (=Sevorane: yellow) PLUS Isoflurane (= Forane: purple) vaporisers together on back bar; either way around on bar.

CHECK EACH VAPORISER:

- Turned off?
- Sitting square on the back bar? If not, unlock it, sit it squarely and re-lock (handle towards you)
- Locked in position?
- Contains enough drug? Check fluid level on front window. Each has a different filling mechanism. Sevoflurane bottle has an in built attachment. Isoflurane needs a separate filling attachment, which lives on top of the trolley
- A bottle of each fluid should be on the top of the trolley. Expiry date is as stated on bottle.
- Tighten the screw caps on the bottles and on the vaporiser filling ports

OTHER CONTENTS OF THE TROLLEY:

- TOP SHELF
  - TUB 1
    - Sevoflurane, Isoflurane bottles: one of each (order from pharmacy)
    - box with Isoflurane filling attachments
    - O₂ Analyser
    - Anaesthetic Gas Module (with sample line setup see picture to right)
    - Safety Glasses
    - Cophenylcaine forte and applicators
TUB 2
ECG, SpO₂, NBP x 2, IBP cables and consumables

- BOTTOM SHELF
  Viridia Monitor with ECG/Resp, SpO₂/Pleth, NBP, IBP modules
disposable Intersurgical Mapleson D circuit (Bain Circuit) - see Technologists for more
scavenging circuit (for Bain Circuit) - see Technologists for more

- BOTTOM DRAWER
  T-Piece with tubing
selection of face masks
1x ADULT & 1 x PAEDIATRIC LAERDAL bags
Scavenging circuits (1 x 0.5L, 1 x 1.0L, 1 x 2.0L - see Technologists for more)
Spare AGM components (2 x Water trap, 3 x monitoring adaptor, 3 x monitoring lines
- See Technologists for more)

- Ensure oxygen hose is attached to wall outlet prior to use. Always connect the anaesthetic
gas module into the patient circuit and turn on before use. Cylinder is for use away from outlet points.


The guidelines on this intranet site are for use in the PICU only and when prescribed by a PICU member of staff at The Royal Children's Hospital, Melbourne.