

# UHS RSCH ICU Neurosurgical Prompt Cards

## Licox Monitor Set Up

The decision to insert Licox monitoring is made by a Consultant Neurosurgeon and Consultant Intensivist only. Siting the probe should be carried out by someone trained in LiCOX insertion.

See also: 'Guidelines for the Management of Traumatic Brain Injury' on Microguide:

[Clinical Guidelines ICU > Neuro > TBI Management of Traumatic Brain Injury](#)



- Licox probes are kept in the refrigerator. Each probe comes with a smart card for the Licox monitor. **YOU MUST USE THE CARD DESIGNATED FOR THE PROBE – serial numbers on card & probe must match. Do not remove the smart card from the monitor until patient is no longer having Licox monitoring.**
- Although monitoring begins immediately – the monitor takes approx. 3 hours to warm up/stabilise. Readings during this time may be inaccurate.
- Microtrauma from probe insertion may influence readings in the first 20mins – 2hours post insertion.
- **THE LICOX PROBE SYSTEM IS NOT MRI COMPATIBLE: any patient needing MRI will need to have the entire Licox system removed from their head.**
- Licox is CT compatible. Cables can be disconnected from probes for CT transfer. (NB: ICP monitoring can stay fully connected during CT scan)

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- Ensure Licox Y-adapter cable is inserted into monitor box – **blue cable (PbtO2) to blue port, green (temp) cable to green port** and attached to the combined PtO2/temp cable



Y-adapter cable  
(BC10PMO)



Combined PtO2/Temperature probe cable  
(PMOCAB)

- Switch monitor on (button on front panel). Ensure Monitor plugged into mains power.
- Monitor runs through a boot programme first. You can insert the **smart card** into the slot on the side at this time. You will be prompted to insert the card if you forget!



- You will see a message 'NO TEMPERATURE PROBE DETECTED' – press 'ACCEPT' button on screen. Silence any alarm that occurs at this time.
- Once the probe is inserted into the patient, you can attach the probe to the monitor cable – white end to white end



White end of combined  
PtO2/temperature probe  
cable

White end of combined  
PtO2/temperature probe  
cable

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## Licox Monitor Set Up Oxygen Challenge Test

- To establish the Licox has warmed up & is providing reliable readings perform an Oxygen Challenge Test using steps below:
- Increase FiO<sub>2</sub> to 100% for up to 2 minutes
- Monitor PbtO<sub>2</sub> readings for next 10 minutes
- Should see an increase in PbtO<sub>2</sub> by at least 5mmHg
- If Oxygen Challenge Test 'fails' then repeat