

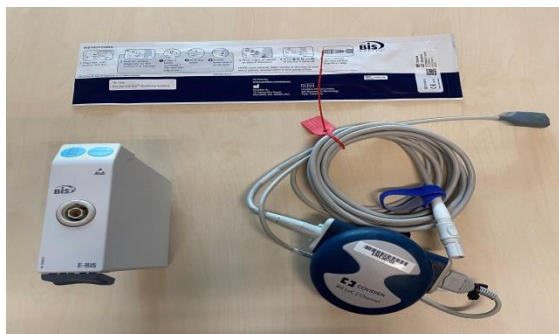
UHS RSCH ICU Neurosurgical Prompt Cards

BIS (Bispectral Index) use in Critical Care

Monitor Module Set Up

A BIS monitor must be in place to ensure patients have adequate analgesia and sedation prior to administration of neuromuscular blockade

Equipment needed:



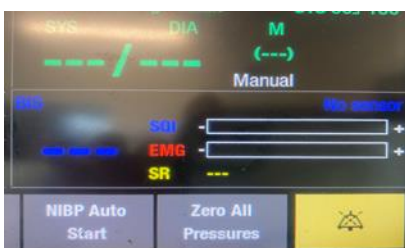
- BIS monitor module – found in cupboard in tech’s room
- Monitor interface and Patient interface (PIC) lead
- BIS Sensor probe – BIS Quatro - stored above BIS monitor

1. Module Insertion:

- Insert module into module rack & lead into module (groove in lead @ 12:00 position in module)



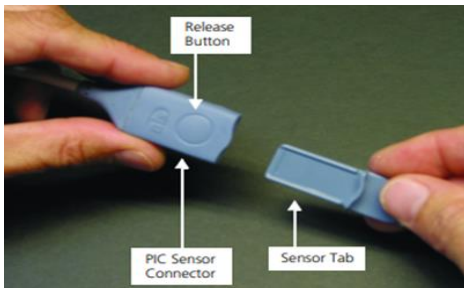
- Add BIS on screen set up (tick show parameter & show waveform)
- BIS display box should appear on right handside of menu



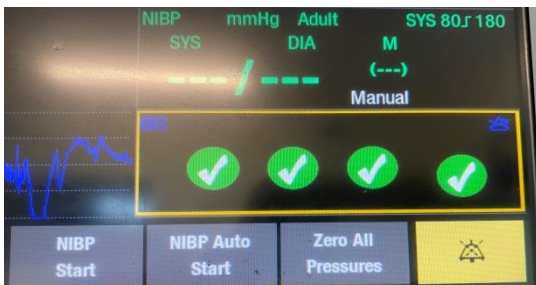
2. Sensor patient application:

If aware of localised brain injury attach sensor to opposite side

- Wipe skin on forehead with alcohol and dry
- Position sensor diagonally on forehead as follows:
Sensor 1 - At centre of forehead
Sensor 4 - Directly above eyebrow
Sensor 3 – On temple between corner of eye & hairline
- Press edges of sensor to ensure adhesion
- Press 1,2,3 & 4 for 5 seconds
- Attach sensor to patient interface cable - audible click should be heard



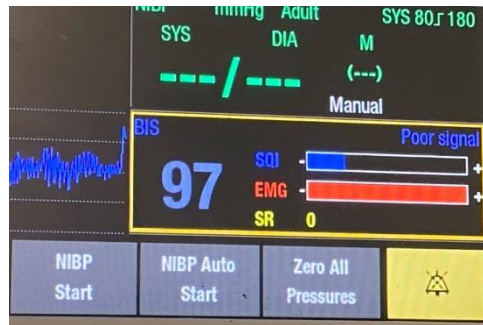
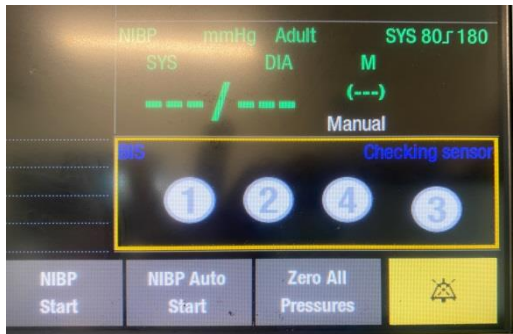
- Sensor integrity check initiated by monitor
- Green circles with tick – when all circles are green monitoring will start



- When sensor passes check main screen displays and monitoring begins

NB: Change sensor every 24 hours to reduce risk of skin damage

3. Sensor integrity check failed or poor signal:



- Hollow circle – no status available
- Red circle with X – electrode impedance not within range. Check edges of sensor for adhesion & check all connections. If persists then remove sensor, clean skin and reapply or try new sensor
- Grey circle with ? - Electrical interference from another source

4. Manual sensor check

- Open BIS menu or press sensor button on module

