## Checklist for Determination of Brain Death

### Prerequisites (all must be checked)
- Coma, irreversible and cause known
- Neuroimaging explains coma (or is consistent with the cause of coma)
- CNS depressant drug effect absent (if indicated toxicology screen; if barbiturates given, serum level 0 mg/mL)
- No evidence of residual paralytics (electrical stimulation if paralytics used)
- Absence of severe acid-base, electrolyte, endocrine abnormality
- Normothermia or mild hypothermia (core temp 36°C)
- Systolic blood pressure 100 mm Hg
- No spontaneous respirations

### Examination (all must be checked)
- Pupils nonreactive to bright light
- Corneal reflex absent
- Oculocephalic reflex absent (tested only if C-spine integrity ensured)
- Oculovestibular reflex absent
- No facial movement to noxious stimuli at supraorbital nerve, temporomandibular joint
- Gag reflex absent
- Cough reflex absent to tracheal suctioning
- Absence of motor response to noxious stimuli in all 4 limbs (spinally mediated reflexes are permissible)

### Apnea Testing (all must be checked)
- Patient is hemodynamically stable
- Ventilator adjusted to provide normocarbia (PaCO₂ 34-45 mm Hg)
- Patient preoxygenated with 100% FiO₂ for 10 minutes to PaO₂ 200 mm Hg
- Patient well-oxygenated with a PEEP of 5 cm of water
- Provide O₂ via suction catheter to the level of the carina at 6 L/min or attach T piece with CPAP at 10 cm H₂O
- Disconnect ventilator
- Spontaneous respirations absent
- Arterial blood gas drawn at 8-10 minutes, patient reconnected to ventilator
- PCO₂ 60 mm Hg, OR 20 mm Hg rise from normal baseline value

OR:
- Apnea test aborted

### Ancillary Testing
Only 1 needs to be performed. Order only if clinical examination cannot be fully performed due to patient factors or if apnea testing is inconclusive or aborted.
- Cerebral angiogram
- Nuclear med flow study
- HMPAO SPECT

### Optional Ancillary Testing Support
- EEG
- TCD