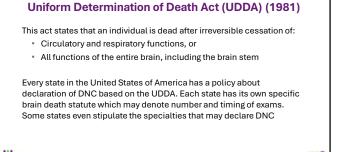
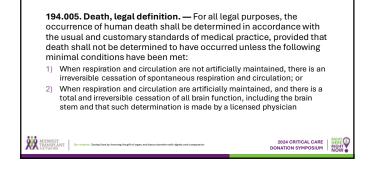


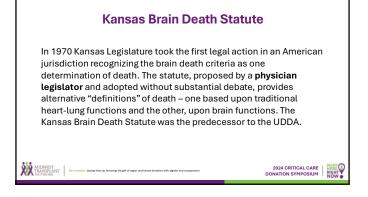
Published in 1994-5, revised in 2010 & 2023 Attempted to provide an authoritative overview on DNC Overall accepted by the medical community Justification Need for standardization of the neurologic examination criteria Differences in clinical practice in performing the apnea test Controversies over appropriate confirmatory/ancillary tests

American Academy of Neurology Guidelines





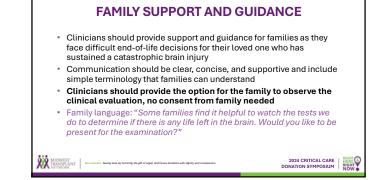
Missouri UDDA



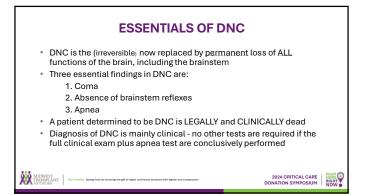
WHY PRONOUNCE DNC? • DNC is a diagnosis • Diagnosing DNC relieves the families from the burden of the decision to remove life-sustaining therapy Regardless of the organ donation issue, proper DNC diagnosis allows acceptance and closure

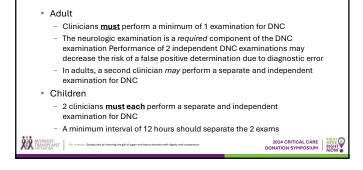
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RIGHT

Why not?

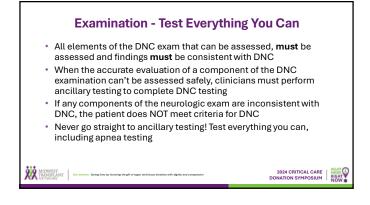








How Many Examinations



OBSERVATION FOR PERMANENCY

- Observation period should be based on pathophysiology of brain injury leading to neurologic status of the patient
 - <24 months: Observe for at least 48 hours
 - ≥24 months: Observe for at least 24 hours after hypoxic-ischemic brain
- · After medical or surgical interventions to treat elevated ICP, clinicians must wait enough time to ensure there is no recovery of brain function before initiating DNC evaluation





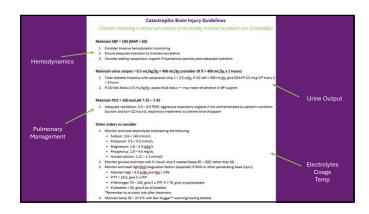
SUPPORTING DATA

- The following criteria must be met prior to performing the neurologic exam
 - Absence of shock
 - Systolic blood pressure ≥100mmHg
 - Absence of confounding hypothermia with a temperature greater than 36 degrees C/96.8 degrees F for at least 24 hours
 - Absence of drug intoxication, poisoning or neuromuscular agents
 - Absence of sedatives and/or CNS depressants (5 half-lives)
 - Alcohol <80 mg/dl
 - Absence of severe metabolic disturbances and/or sever electrolyte imbalance
- Family language: "We have checked to be sure there is nothing that could interfere with his/her ability to respond (temp, labs, meds).
- Nurses play a critical role to advocate for maintaining hemodynamic stability to prepare patient for DNC testing!









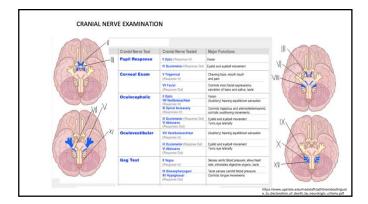
NEUROLOGIC EXAM

- . Required to declare DNC
- · Assessment of cranial reflexes
 - Response to pain, pupillary response, doll's eyes reflex, oculovestibular (cold caloric), corneal, gag and cough reflex
- Family language: "We are going to ... The normal response is to ..."
- · Apnea testing if no observed reflexes during exam







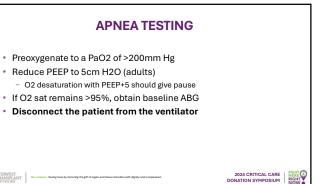


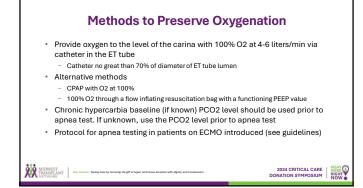
APNEA TEST - PREREQUISITES

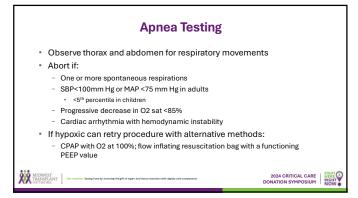
- Ensure the patient is not hypoxemic, hypotensive, or hypovolemic before starting the apnea test
- · Euvolemia (especially in the setting of DI)
- Eucapnia (PaCO2 35-45)- unless CO2 retainer
- pH 7.35-7.45
- · Correct hypoxia as able
- Functioning A-line for B/P monitoring and ABGs
- Nurses and R/Ts play a critical role in preparing patient for apnea testing!

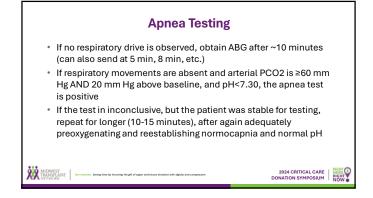


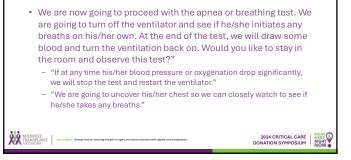




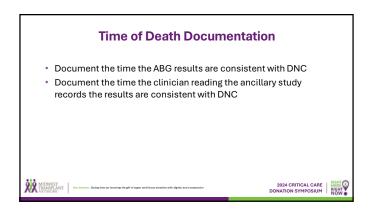


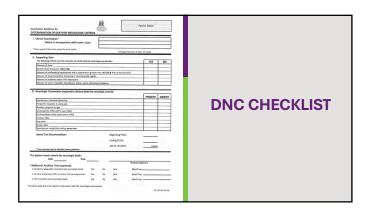




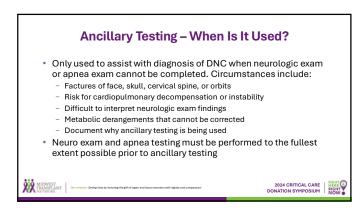


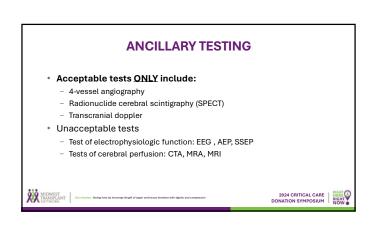
APNEA TEST - FAMILY LANGUAGE

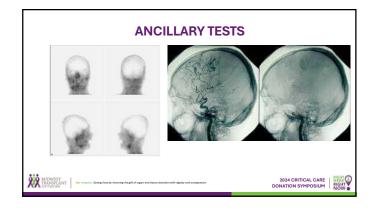


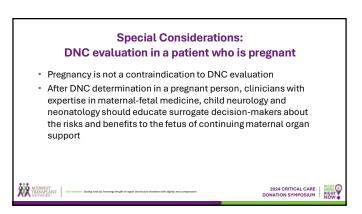


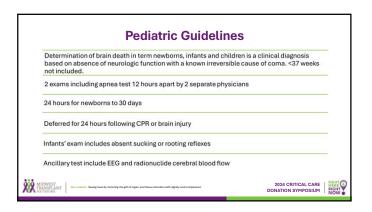




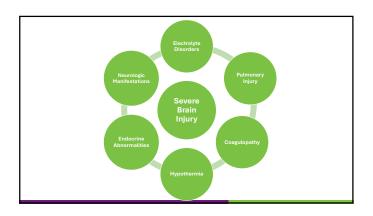






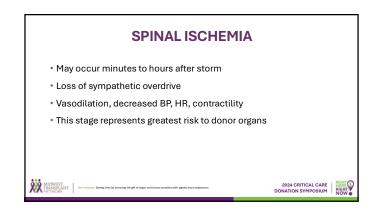


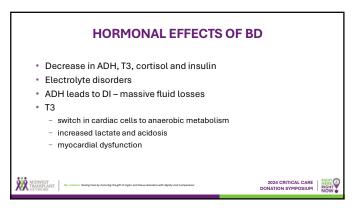
CARDIOVASCULAR PHYSIOLOGY OF A DNC DONOR

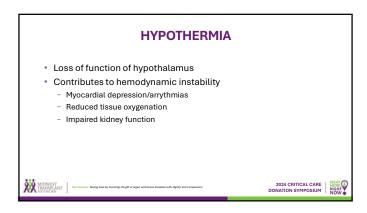


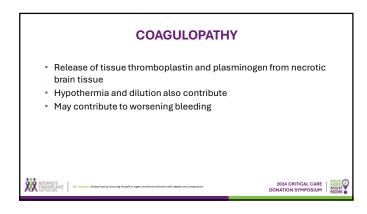
During the process of herniation, the body tries to preserve cerebral blood flow Stimulation of vagal and sympathetic systems Cushing's triad – hypertension, bradycardia and abnormal breathing **Description** **D

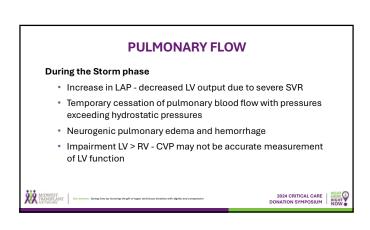
PRAIN STEM ISCHEMIA Necrosis of nerve cells in the medulla causes unchallenged sympathetic activation "Autonomic storm" – 800 to 1,200 times increase in catecholamine levels in blood Increased SVR, CO, heart rate, MAP, cardiac O₂ demand Can cause myocardial ischemia and/or arrhythmias

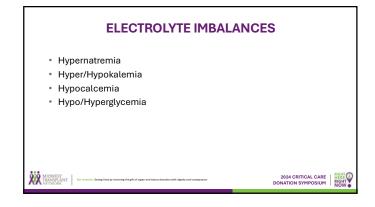


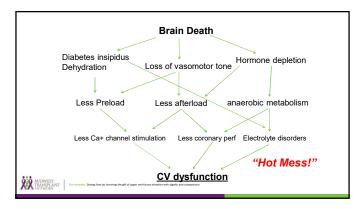


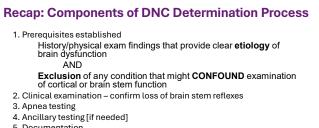


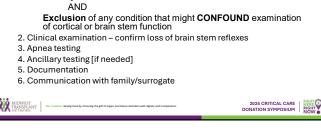


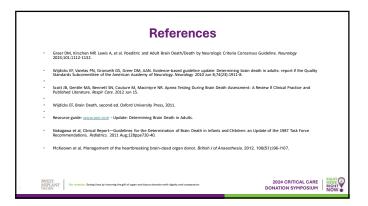












NURSING INTERVENTIONS • Updates on clinical changes Advocate for maintaining clinical parameters to prepare patient for DNC testing - (CBIGs) · Print DNC checklist/review hospital DNC policy · Let physicians know when MTN is onsite • Facilitate/Support an Effective Request Process

2024 CRITICAL CARE DONATION SYMPOSIUM RIGHT