TRAUMATIC BRAIN INJURY



WHAT IS IT?

- Alteration in brain function or other evidence of other brain pathology caused by external force- fall MVA being struck in the head by other person/assault
- DAI- diffuse axonal injury
- Contusion
- Coup-Contrecoup injuries
- Penetrating Hematomas



SIGNS & SYMPTOMS

- Cognitive: amnesia, inability to speak or understand language, mental confusion, difficulty concentrating, difficulty thinking and understanding, inability to create new memories, or inability to recognize common things
 Behavioral: abnormal laughing and crying, aggression, impulsivity, irritability, lack of restraint, or persistent repetition of words or actions



- actions
 Whole body: blackout, dizziness, fainting, or fatigue
 Mood: anger, anxiety, apathy, or loneliness
 Eyes: dilated pupil, raccoon eyes, or unequal pupils
 Gastrointestinal: nausea or vomiting
 Muscular: instability or stiff muscles
 Sensory: sensitivity to light or sensitivity to sound
 Speech: difficulty speaking or slurred speech
 Also common: persistent headache, a temporary moment of clarity,
 bleeding, blurred vision, bone fracture, bruising, depression, loss of
 smell, nerve injury, post-traumatic seizure, or ringing in the ears

SPECIAL TESTS

- CT Scan Follow up MRI
- Behaviors
- Glascow Coma Scale- in the field, first arriving in ER/ED, and monitoring after · Activity Behavioral Scale
- · Coma recovery Scale
- Rancho Levels of Cognitive Functioning





DIFFERENTIAL DIAGNOSIS

CAUSES

- External force- fall, MVA, being struck in the head by other person/assault
- Open head injury- object penetrates skull and enters brain
- Closed head injury- external force or violent movement causing brain to knock up against inside of skull





TREATMENT EXAMPLES

