Brain Injuries in Aviation

Kerry A. Mahedy Brandon A. Woodard Montgomery, Rennie & Jonson, LPA



Plaintiff Myths

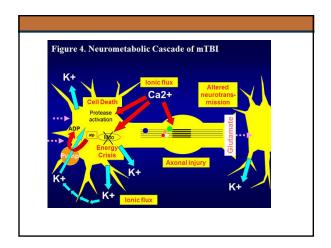
- Easy to "tack on"
- Growing public awareness
- Claims of permanency

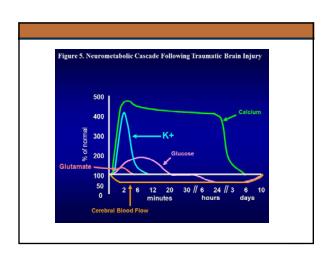
Festuary Austriar Association involves you to critical. Pituitary Injuries in TBI CasesIgnore Them at Your Peril! Produces you could add an additional 5,000,000 or more in water to 5,00% of your TBI course, you would health to do so, right? The data test at mediate to 4 most of 50% of your TBI course, you would health to do so, right? The data test at mediate to 4 most of 50% of your TBI course, you would health to do so, right? The Association Member 5120 for Non-Member 40% of the your test of the young of the less of monologists or encursus-publication. For the less 10% your, and confidence of the young of your day o

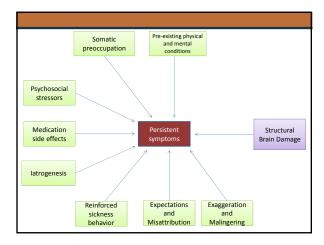
Defense Myths

- No loss of consciousness = no TBI
- No head impact = no TBI
- Normal CT or MRI = no TBI
- People that don't recover from a concussion are simply faking

<u>Criteria</u>	Mild	<u>Moderate</u>	<u>Severe</u>
LOC	0 - 30 mins	31 mins - 24 hrs	>24 hours
AOC	Moment - 24 hrs	>24 hours. Severity based on other criteria	
PTA	0 - 1 Day	2 – 7 Days	>7 Days
GCS	13 - 15	9 – 12	<9
Structural Imaging	Normal	Normal or Abnormal	Normal or Abnormal







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"I don't think there's a claim out there worth less than \$1 million. Many will be worth multi-millions," said the lawyer, who has not been retained by any of the victims or their families.

"PTSD is an insidious illness," he said. "Many can't return to work. Even those who think they're fine and return to work, six months later they find out they're a blob on the floor because it finally comes home to roost."

When someone has a near-death experience, they spicially suffer a serious psychological injury in the form of PTSO. While many people have flishy hears about the condition in the correct of soldiers and war zones. Its something that people also suffer in more common situations, like veiking accidence or assurbs.

The action is also responsible for emusing that the surviviers of this flight are tended to. In addition to the tragic death and serious injuries, the passengers all suffered severe psychological trauma. We hope that Southwest takes that fact seriously and offices their passengers everything they need to cope with the consequences.

DSM-5 PTSD Categories

- A. Trauma Exposure
- B. Intrusion symptoms (≥ 1 of 5)
- C. Avoidance symptoms (≥ 1 of 2)
- D. Negative cognitions/mood (≥ 2 of 7)
- E. Alterations in arousal or reactivity (≥ 2 of 6)
- F. Duration ≥ 1 month
- G. Functional impairment

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	Malingering	True PTSD
Dreams	Frequent nightmares always the same and occur every time one sleeps or dreams	Frequent nightmares fluctuating frequency (similar themes buy varying content
Flashbacks	Describes only visual imagery, involve one sensation results in premeditated	More than one sensation, actions appropriate at time

DSM-5 PTSD Categories

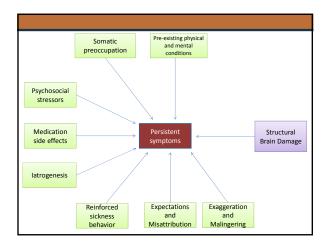
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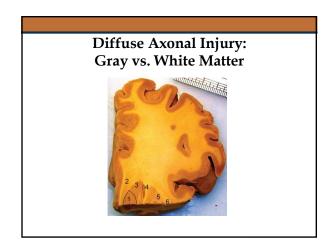
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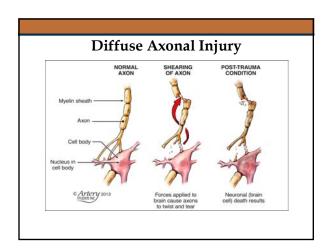
H. Not attributable to anything else

- · Adjustment disorders
- Other posttraumatic disorders and conditions
- Acute stress disorder
- Anxiety disorders/obsessive-compulsive disorder
- Major depressive disorder
- Personality disorders
- Dissociative disorders
- Conversion disorder
- Psychotic disorders
- Traumatic brain injury

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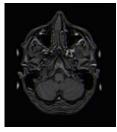
Computed Tomography





Magnetic Resonance Imaging: T1

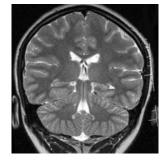




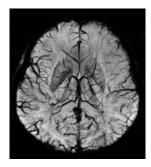
- White matter bright
- Best for visualizing anatomy

Montgomery Rennie Jonson

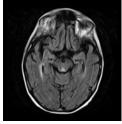
Magnetic Resonance Imaging: T2



Magnetic Resonance Imaging: SWI



Magnetic Resonance Imaging: FLAIR



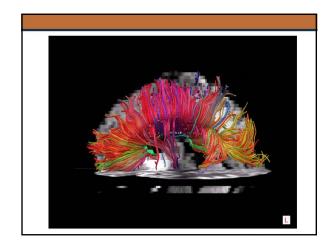
- White matter dark
- Best for visualizing pathology

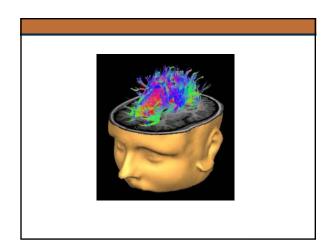
Advanced Neuroimaging

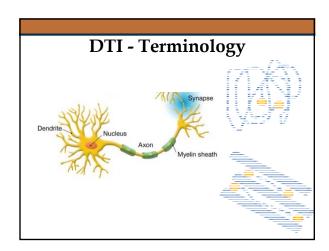








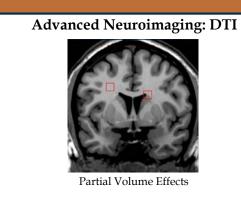


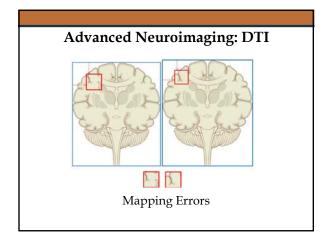


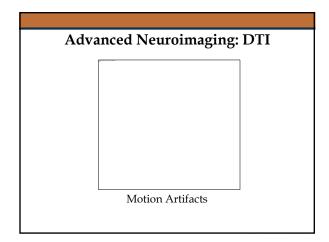
DTI

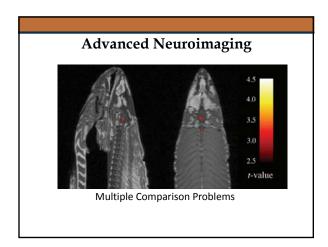


DTI - Fractional anisotropy





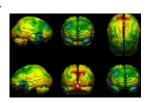




Nuclear Imaging: PET and SPECT

Technological overview





- · Protocol specifics
- Methodological shortcomingsInterpretation problems

Questions?

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