


Mod 32-34
Psychological Disorders:
Concussions/CTE



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NFL Concussions

2010: 159
2011: 171
2012: 127 Reg/175 Camp

New Rules!

Note: Pictures are omitted to save color ink for students and when permission is not provided for web viewing without a password access.

21% Higher 2009
34% Higher 2008

Died 2011

John Mackey
10 Seasons- NFL Union Leader

[Jim McMahon](#)

Walter Payton

Early Dementia
3 Clear Known
Concussions

[Nathan Stiles](#)

Concussion out for week & just
"headache". Then played 1 game
ok, then next collapsed & died.
2010

[Austin Trenum](#)

Hung Himself at Home
Neurons frayed 2010

[Brandon McCarthy](#)

Concussions

- Diagram of Concussion

2010 & 2011 – 98 Confirmed each Yr.

2012 - 118

68/85 New Cases!
50 in the Football!!
(33 NFL/40% Linemen,
1 CFL, 1 Semi, 9
College, 6 HS) Also 4
former NHL

Death Certificates of NFL
4X Neurodegenerative Disease

Looking at Military Now!

Chronic Traumatic Encephalopathy (CTE)

Repetitive Hits on every play NOT Violent Collisions!

Full-blown dementia, including “profound loss of attention and concentration, executive dysfunction, language difficulties, explosivity, aggressive tendencies, paranoia, depression” and difficulties walking and with depth perception.

Chris Nowinski



- Harvard Grad
- Wrestling ended due to Concussion Syndrome
- Now Lectures on Concussion – 10,000 get NFL
- "I was a 24-year-old Harvard graduate who was recklessly abusing my brain,"
- "If I begin to slip, I'm going to absolutely regret it," he said. "Eight years of glory for 30 years of misery is not a good trade."
- 1,400 hits to head in a season/75% practice

Lou Gehrig - ALS???

Cognitive Disorders



- Equally Young or Old
- Retrograde & Anterograde Amnesia
- Temporal Lobe (Diencephalon)
- Have Verbal Skills
- Have Many Problem Solving Abilities
- Have IQ

Korsakoff's Syndrome



- Head Injury or Brain Surgery
- 5% of those with Chronic Alcoholism
- Low Vitamin B (Thiamine)
- ½ of all Severe Head Injuries Permanent Learning and Memory Problems
- Low 20,000 High 320,000 Soldiers
- Do not yet know how severe & how long
- H.M. Epilepsy (Both Temporal & Amygdala & Hippocampus removed 1953)
- Clive Wearing [V#1](#) (B-2:22) [V#2](#) (4:10-End?)

References



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