

Psychiatric symptoms and Disorders in Driving





Psychiatric Disorders and Driving

There is little evidence that psychiatric illness results in dangerous driving (Raffle, 1985)



Psychiatric Disorders and Driving

25% of drivers in accidents are impaired

- Alcohol
- Drugs
- Emotional disorder

Cremona, 1996



Psychiatric Disorders and Driving

• Little evidence that schizophrenics are more dangerous than controls

• 10% of accident drivers have suicidal ideation

• Patients with anxiety disorders have 50% more accidents

• After dementia the most dangerous disorders are mania and hypomania, severe depression, personality disorders

Silverstone, 1988





Suicidal ideation and driving

• 5.9% of fatal driver accidents are suicides

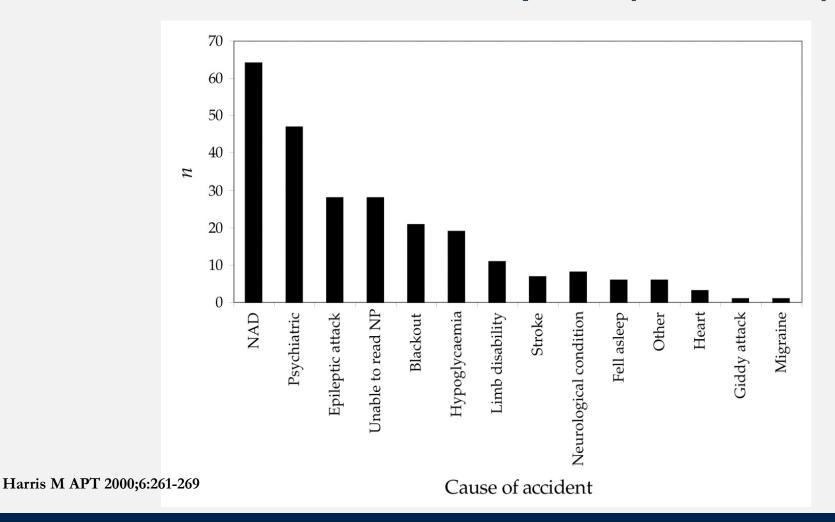
• In 4% of cases the crash led to death of another person

Ohberg, 1997





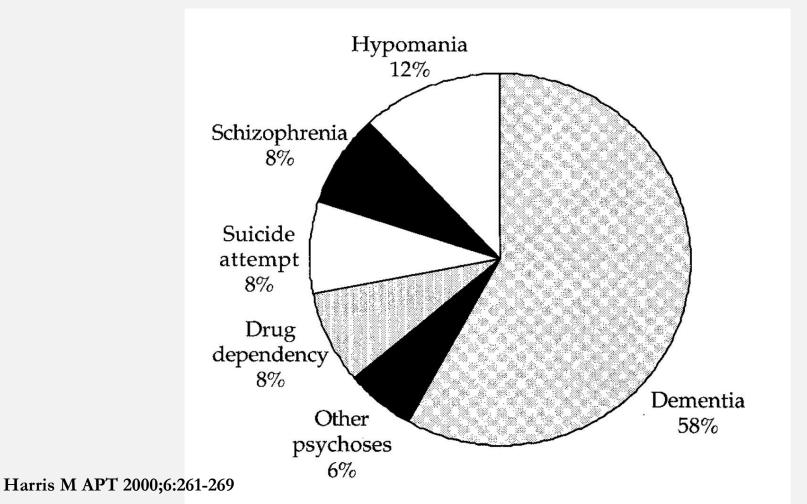
Analysis of about 25% of police notifications in 1995. n, number of reports (total = 250)







Psychiatric disorders identified on police reports as the cause of road traffic accidents







ADHD and driving

ADHD sufferers have

- 2-4 times more car accidents than controls
- 3 times more injuries
- 6-8 times more likely to have their licenses suspended
- ADHD affects 10.3% of young children (population studies)
- The prevalence decreases with age (4.4% in adults)
- Many ADHD patients through adulthood manifest
 - Anxiety disorders
 - Bipolar disorder
 - Drug and alcohol misuse
 - Anti-social behavior

Kessler, 2006 Faraone, 2003





Alcohol and other drugs in Driving

- 41% of fatally injured persons were in alcohol related car accidents
- 46% of male traffic deaths are alcohol related and 29% for females
- Only 15% of traffic deaths among adults age 65 and over Hingson R., 2003, NIAAA
- Cannabis is the most common drug detected in drivers involved in accidents



Psychotropic medication

- Benzodiazepines are over represented in car accidents drivers
- Other drugs
 - Anti-psychotics
 - Anti-depressants (mostly the first period of use)
 - Lithium

There is considerable idiosyncratic variability profile on side effects of medication





Psychiatric disorders in Third Age

- Patients with psychiatric disorders drive fewer miles /year
 - But they have 2ice the number of accidents /mile

 Many schizophrenic and bipolar patients quit driving before the age of 65 years

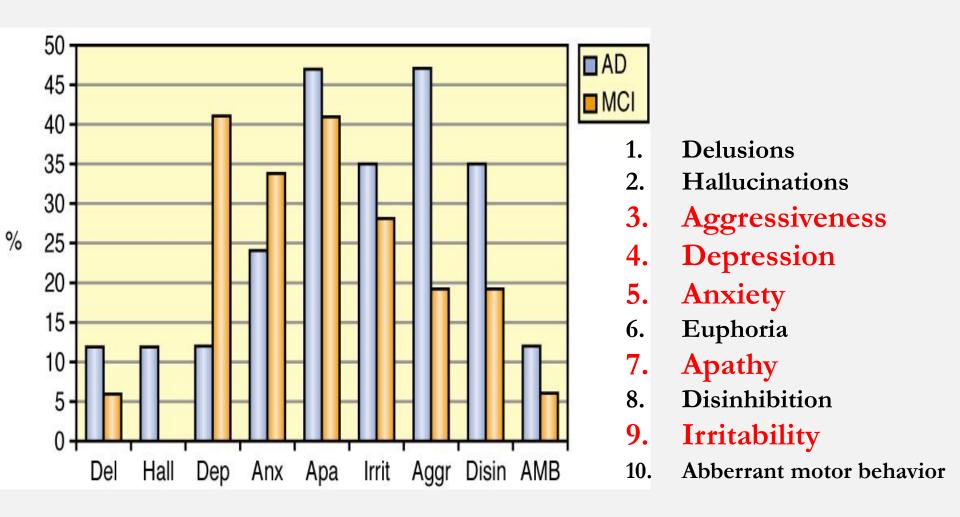
> Silverstone, 1988 Cremona, 1996





Mild cognitive Impairment (MCI) Neuropsychiatric symptoms and Driving

distract Neuro-Psychiatric profile in AD and MCI





Irritability/Agression

- Aggressive behavior driving and accidents correlate to
 - Driving violations
 - Irritability while driving

Chliaoutakis J., 2002



Disinhibition/impulsivity

Impulsivity correlates to

risky driving behavior

Shaneel B., 2013



Abberant Motor Behavior

• There is a relationship between Aberrant Behavior and self reported Accidents amongst professional bus drivers

Sakineh V., 2013



Anoso-agnosia in MCI and AD

 The diagnosis of anosognosia is frequent in patients with mild AD but not in those with MCI Orfei MD, 2010

• Anosognosia is a Significant Predictor of Apathy in Alzheimer's Disease

Starkstein S., 2010





Conclusions

• Psychiatric disorders probably affect driving

 Neuro-psychiatric symptoms in MCI and AD seem to correlate to car accidents and risky driving behavior



Thank you





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