



Alcohol patterns and cognitive performance among older adults living in the North and South of Ireland

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DRINKING AND LATE-LIFE COGNITION

- Problem drinking accelerates cognitive decline and increases dementia
- Relatively little known about moderate alcohol and brain health
- Linked to lower risk of cognitive impairment and dementia
- J-shaped or U-shaped relationship, with harmful effects of both abstinence and excessive alcohol consumption
- Evidence is conflicting some studies have shown harmful or no association of moderate alcohol on cognitive function
- Lack of standardisation of alcohol use across studies

Aim: To determine associations between alcohol patterns and cognitive performance in older adults across the island of Ireland

METHODS

- Cross-sectional study
- Data drawn from Wave 1 NICOLA,Wave 3 TILDA



Alcohol consumption

> Alcohol amount & frequency

> UK units/week

Alcohol patterns

Cognitive test battery

> Episodic memory

> Semantic memory

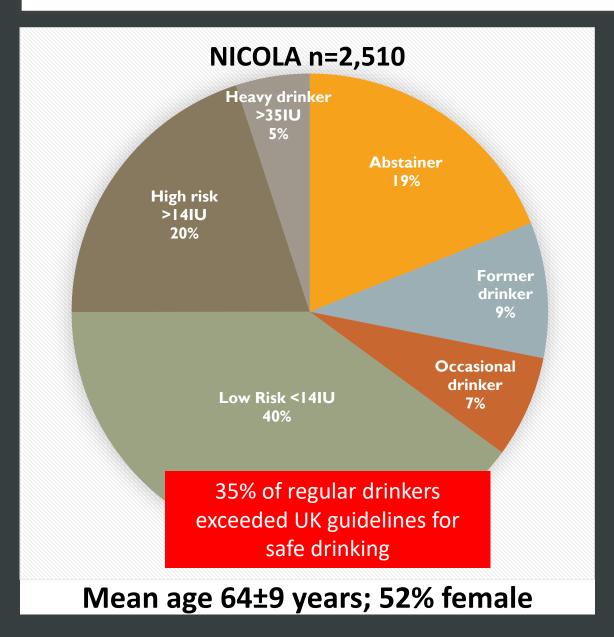
> Executive function

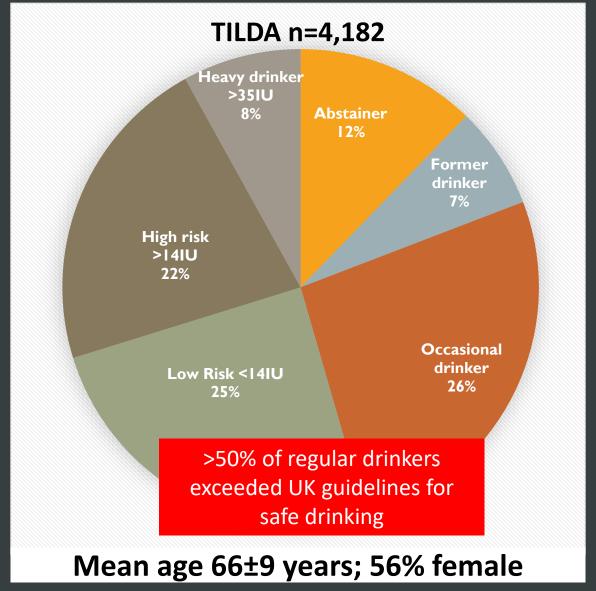
→Global cognition

Composite cognitive function score

MoCA

RESULTS-ALCOHOL PATTERNS

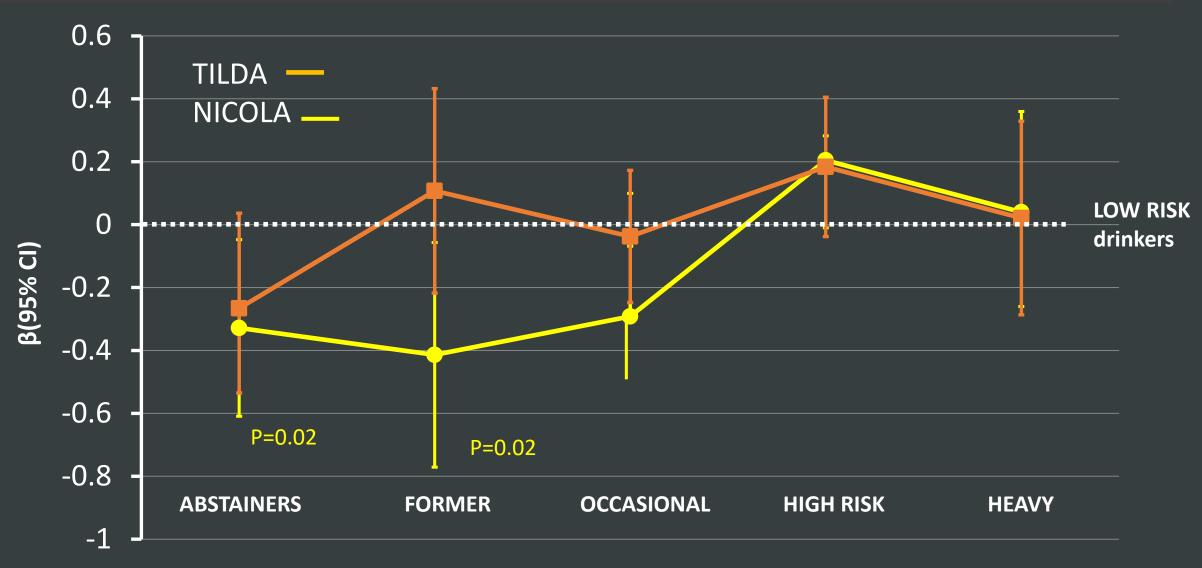




ALCOHOL PATTERNS AND COGNITIVE FUNCTION



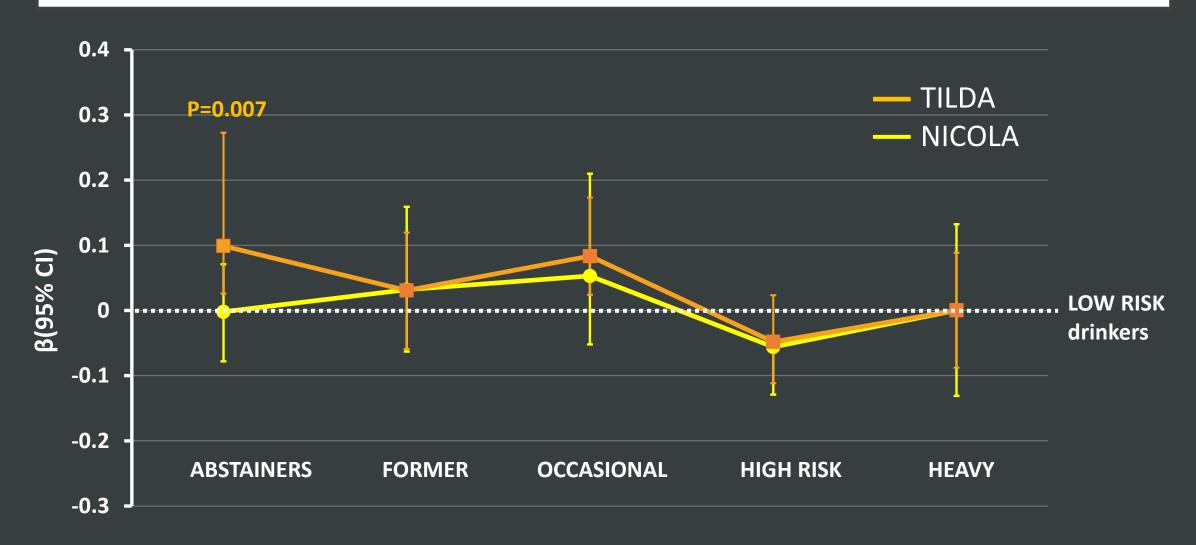
ALCOHOL PATTERNS AND COGNITION FUNCTION



ALCOHOL PATTERNS AND MOCA ERRORS



ALCOHOL PATTERNS AND MOCA ERRORS



SUMMARY AND FUTURE PLANS

- Low risk drinkers had slightly better cognitive performance compared to lifetime abstainers after adjustment for a broad range of potential confounders
- Observed effect estimates were small
- Stratify by gender may be differences between older men and women both in drinking patterns and effects on cognitive health?
- Mediation analysis do psychosocial factors such as loneliness and social isolation mediate alcohol intake and cognitive function in older age?
- Understanding mechanisms will identify older adults at increased risk of harmful impact of alcohol on brain health
- Need to determine longitudinal effects of regular alcohol consumption on cognitive decline

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