

Malnutrition in problem-drinking homeless people

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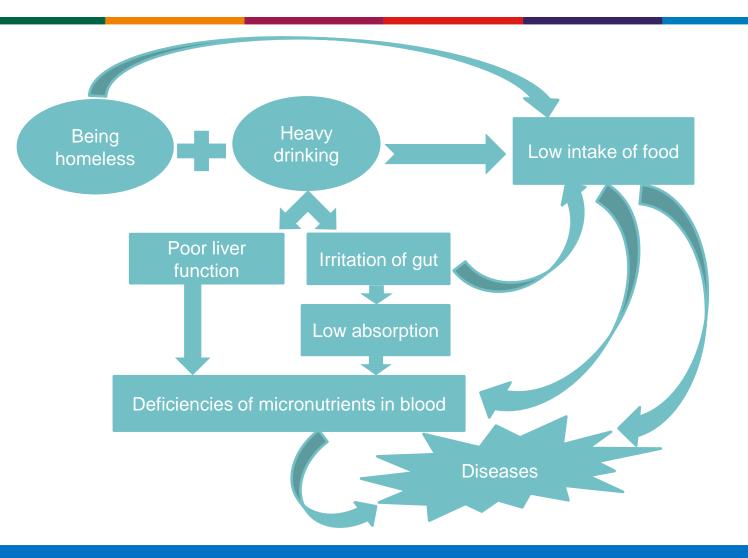
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How alcohol causes malnutrition



CLAHRC West



How the project came about

- Katie Porter
 - Alcohol Strategy Manager, Bristol City Council
- Clare Fleming
 - GP The Homeless Health Service, Compass Health, Bristol
- Adrian Bonner
 - Salvation Army, alcohol & nutrition expert



The question

- What are the key nutritional deficiencies
- Is a good solution already there
 - effective
 - cost effective



What we did

- Two sister reviews
 - Range of nutritional deficiencies in homeless drinkers
 - Interventions that improve nutrition in homeless drinkers
- 9 scientific databases
- 13 grey literature sources (e.g. charities, associations, theses)
- Contacting authors and organisations for unpublished data
 - 9216 references → 257 full text papers
 - Review of deficiencies 9 studies
 - Review of interventions 25 studies
- Data extraction and quality assessment
- Narrative synthesis



- Deficiencies exist
- Most commonly studied: Vitamin B1
- Most often found deficient: Vitamin B1, B6, C
- Not studied enough: Vitamin B3, B5, B7, D, A, and E
- No UK study on deficiency profile
- No clear subgroups
- Regional differences possible
- Need a new study locally





- Interventions
 - Education and support
 - Food/ meals
 - Fortification or supplementation
- Outcomes
 - Intake (nutrients or energy)
 - Acceptability
 - Cost
 - No disease outcomes



- Education and support (9 studies shelters)
 - could improve nutritional behaviour, i.e. eating healthier food
- Food provision (5 studies shelters and cafes)
 - acceptable to clients (one in UK) (Pelham-Burn 2014)
 - may not fulfil daily energy needs
- Supplement or fortification (3 studies rough-sleeping and shelter)
 - effective for blood indictors of deficiency
 - fortified chocolate spread is acceptable
- Multicomponent interventions (8 studies all types of homeless)
 - could improve nutritional behaviour, i.e. eating healthier food
 - no effect on liver function
 - some acceptable (Kendzor 2016), some not (Grazioli 2015)

- No cost effectiveness analyses
- Cost in four studies
 - Vitamin supplement (B complex plus C tablets)/ day USD 0.16 (1986)
 - Vitamin fortified chocolate packet plus meal/ day USD 5 (2009)
 - Food pack/ day USD 1.5 (2013)
 - One meal 1200 kcal USD 1 (2013)
- Only two studies from the UK
 - Education and support- Hinton 2001
 - Meal provision- Pelham-Burn 2014

What next

- Disseminate findings to:
 - Frontline workers dealing with homeless problem drinking people
 - Homeless organisations and charities
- Possible next steps:
 - Assess the local homeless drinking population's nutritional needs and wants
 - Survey + qualitative design
 - Develop an intervention based on these needs
 - Test any ongoing interventions
 - e.g. Pabrinex IV at BRI





Thank you

