Correcting malnutrition in problem drinkers who are homeless or vulnerably housed: an ongoing systematic review

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Objective: To assess the effectiveness and cost-effectiveness of interventions for preventing or correcting micronutrient deficiencies and other forms of malnutrition and related comorbidities in problem drinkers who are homeless or vulnerably housed.

Guidance

unsuitable

for people

who are

homeless

Project Background

CLAHRC
West call
for
proposals

Project selected from a call for proposals, which invited the region's health and care community to **submit ideas** for collaborative research projects.

The project is a **collaboration** with Bristol City Council and Bristol Wet Clinic to help address a growing need in Bristol.

Problem alcohol drinking can lead to malnutrition, which is associated with complications such as **alcohol-related brain damage**. Malnutrition is exacerbated in the homeless or vulnerably housed.

Nutrition **guidance** for problem drinkers may be unsuitable for homeless people with **little money or equipment** to store or cook food.

Homeless drinkers are likely to have worse health outcomes and different nutritional

needs compared with housed problem drinkers.

Unclear which interventions are effective

Our population often exhibits a **chaotic lifestyle** (a possible consequence of alcohol-related brain damage). Any intervention needs to be effective in this context.

This review should help to **inform the implementation** of effective interventions in the community.

What might the intervention look like?

Guidance for providers

Leaflets Education Fortified food distribution
Parenteral injections Peer support

Improving access to food Workshops Menu changes

Chocolate spread Food provider training

Cookery classes

Supplement distribution

Provision of cooking facilities

Encouraging behaviour change

Interventions without a **direct** nutritional component are **ineligible**, such as those aimed at reducing alcohol intake or improving the housing situation.

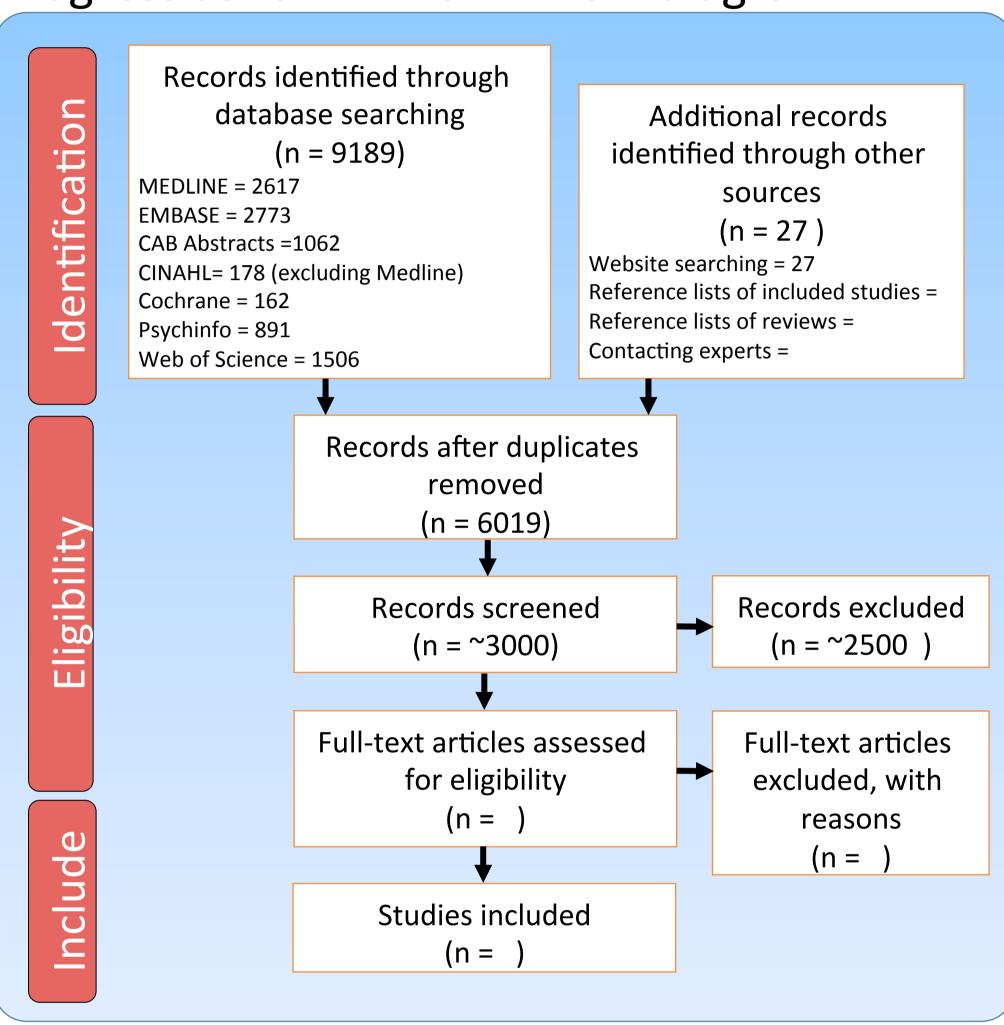
Methods

- •Target studies of a **nutrition-based** intervention applied in the **homeless or vulnerably housed** population with **problem drinking**.
- •Electronic databases and grey literature sources systematically searched.
- •Search records screened in duplicate. One reviewer will extract data and assess quality, checked by a second reviewer.
- •Results will be **analyzed descriptively**. If appropriate, meta-analyses will be performed.

Primary outcomes:
(mal)nutrition status
measures of liver damage
cognitive function

Secondary outcomes
quality of life
functional scales
resources used to deliver treatment
acceptability of the intervention
engagement with treatment services

Progress so far - PRISMA flow diagram



Discussion

Conducting research in the **transient homeless population** is challenging: participants' chaotic behaviour makes them difficult to keep track of and collect follow-up data from.

A good evidence base made up of high quality randomised controlled trials is **unlikely**. The **quantity of evidence** may be limited.

Thus the review is **not limited to RCTs**, but can include a wide range of study designs, intervention types and outcomes.

Transient population
- RCTs are unlikely

A pilot informed the design

A **pilot search and screen** was done to refine the selection procedure.

It may **not be possible to combine evidence** in a meta-analysis as this requires enough studies that are sufficiently similar in intervention and outcomes.

However, the **broad scope** allows us to explore the **range** and **diversity** of interventions evaluated.

Reference

Thorley *et al.* (*in press*), Interventions for preventing or treating malnutrition in problem drinkers who are homeless or vulnerably housed: protocol for a systematic review, *Systematic Reviews*. DOI 10.1186/s13643-015-0114-3

