





ODHIN

Optimizing delivery of health care interventions





Enhancing management of heavy alcohol consumption in primary healthcare: what works? A systematic review, meta-analysis and meta-regression analysis

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Why this review?

- SBI is effective in primary care
- **However**, large studies show difficulty in SBI implementation
- Aim: To identify elements of implementation strategies which have impact in decreasing heavy alcohol consumption in primary healthcare.







<u>Methods</u>

- Search in MEDLINE, Embase, Cinahl and CCTR, reference list, consulting experts
- Screening on titles/abstracts
- Data extraction and methodological quality
- Primary outcomes: alcohol consumption
- Secondary outcomes: SBI, costs







Methods (2)

- Meta-analyses with MetaEasy
 - Random effects model
 - Standardized mean differences
- Meta-regression in SPSS
 - Single/multiple component
 - Type of implementation strategy
 - Study duration
 - Physicians only/combined







<u>Results</u>

- 3968 unique citations \rightarrow 29 studies in 35 papers
- Participants:
 - Physicians
 - Nurses
 - Nurse practitioner
 - Other
 - Patients mostly (55%) 30-69 years







Results: effects on alcohol consumption

- Pooled estimate:
 - SMD 0.07 (95%-CI -0.02–0.16)
- Combinations of professional, organizational and patient oriented strategies were more effective than solely professional oriented strategies







Results: effects on screening

- Pooled estimate:
 - SMD 0.53 (95%-CI 0.28–0.78)

Increased effectiveness by:

- Multiple types of implementation strategies
- Combining patient + professional oriented
- Combining physician with other professions







Results: effects on brief interventions

- Pooled estimate:
 - SMD 0.64 (95%-CI 0.27–1.02)

Increased effectiveness by:

- Multiple component
- Combining patient + professional oriented
- Duration >12 months







Discussion

- Implementation strategies affect SBI, but not alcohol consumption
- Implementing SBI: combine patient, professional and organisational oriented implementation strategies and involvement of other staff next to physicians.
- Monitor and improve implementation fidelity







Thank you



"THE WIFE AND I HAVE DECIDED TO NOMINATE OUR WEEKLY DRINK-FREE DAYS AS TOMORROW AND THE DAY AFTER TOMORROW."



Scientific Institute for Quality of Healthcare