



Symposium: Implementation Research and Screening and Brief Intervention

Synthesis and Research Directions

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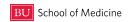
Boston Medical Center is the primary teaching affiliate of the Boston University School of Medicine.



DR. WEISNER

- Changes in insurance could improve care
 - Particularly if they lead to changes in the delivery system
 - Separate payment and administration of substance vs other health
- Performance measures and electronic records could support better care
- Privacy issues are barriers not well studied or sorted out
- Evidence controversies: different levels of evidence needed for different health interventions

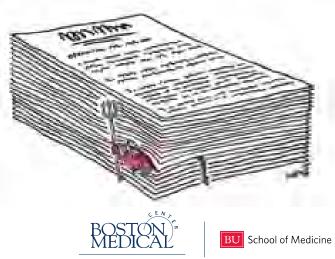






DR. HORGAN

- P4P
 - You get what you pay for. Maybe.
 - Also, you get what you pay for...(sometimes only that, and unintended consequences)
- The devil is in the details—
 - What are the measures?
 - What happens when a clinician checks a box?
- How about paying for outcomes?
 - And paying patients for outcomes?

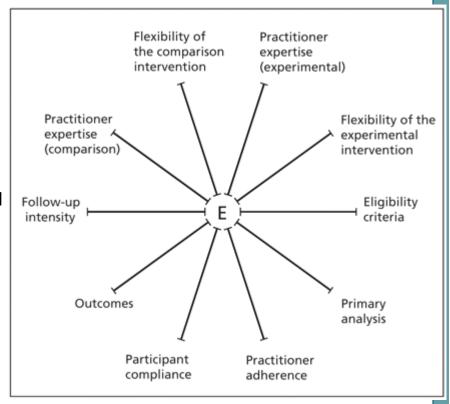


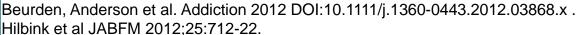


DR. ANDERSON



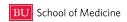
- Kaner: Although the effectiveness/efficacy scale had some range, PC SBI RCTs are largely efficacy designs, heavy on researcher involvement and patient selection (Thorpe et al. CMAJ 2009;180:E47-57)
 - SIPS, and Beurden, Anderson et al. suggest that large efforts in the real world do not lead to implementation or improved outcomes
- 'If we can get clinicians to screen and advise, it will be successful'
 - Will we be able to?
 - Will it be effective?





Kaner et al. BMJ 2013;346:e8501 doi: 10.1136/bmj.e8501



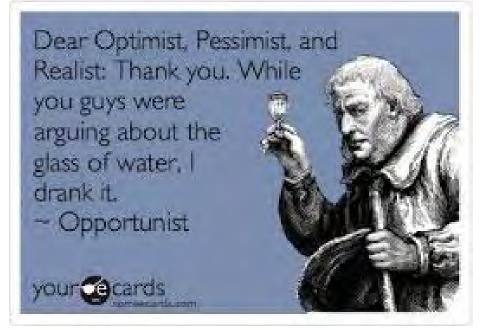


DR. GUAL

A masterpiece—to study implementation



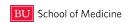






- Screening 5% or more of patients increased little, from ~45% to 50%
- Advice to positives increased with intervention
 - Will it be effective among those who identify few?
 - Will it also increase among those who identify more cases by screening?



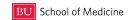






- Stakeholder relevant outcomes (clinicians, patients, orgs)
- Clinician training
- Quality of intervention delivery
- Locally and contextually usable guidance, resources and tools
- Develop/test conceptual models
 - CFIR, RE-AIM, PRECEDE/PROCEED, ISF, KTA, PARIHS, Greenhalgh
- Systems interventions
- Adaptations for specific settings
- Unanticipated consequences
- Health care consumers—CREATE DEMAND!







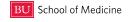
IMPLEMENTATION ISSUES FOR STUDY

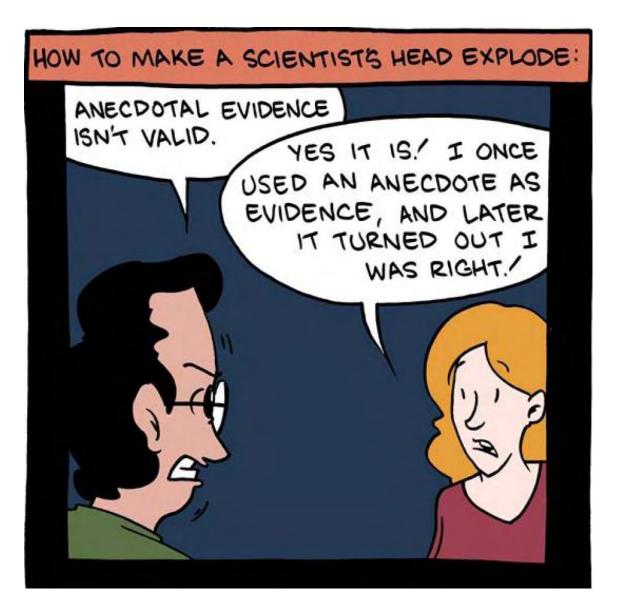
- Cost and financing; Incentives and barriers
 - Are non-financial incentives as good as money?
 - Are financially incentivized Bls effective?



- Confidentiality
 - Face-to-face screen detected only 35% of confidential survey positive screens*
- Simply...How to best implement!
 - More studies like ODHIN











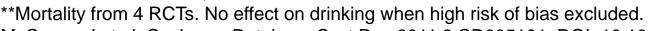
IMPLEMENTATION ISSUES FOR STUDY

"The plural of anecdote is not evidence"*

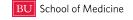


- Modest efficacy to begin with
- Evidence for hard outcomes remains important
 - Comorbidity, severity, settings (ER, Hospital), mortality (in hosp no diffs at 3, 4, 9, but diff at 6, 12 months**), accidents, injuries, liver problems, hospital/ER use, legal problems, quality of life***
 - Does brief advice (vs BI) have efficacy compared to no advice?
 - Systematic review says 'no' (Whitlock E et al, 2004)
 - Assessment effects don't mean BA will work;
 - » Assessment effects may not be relevant
 - Large RCTs with no assessment groups don't show effects
 --e.g. Daeppen, and D'Onofrio (not in McCambridge study)

^{*}Leshner AI. JAMA 2001;285:1141-3.









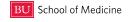
IMPLEMENTATION ISSUES FOR STUDY





- "Will it work on a Wet Wednesday in Wigan"*
 - Can SBI retain efficacy in the real world? We do need (comparative) effectiveness trials with clinical outcomes
 - Carotid endarterectomy, thrombolysis for stroke, anticoagulation for atrial fibrillation...
 - Training GPs in behav chg counseling>>no chg in behavior**





^{*}Mike Kelly, Director, Centre of Public Health Excellence, NICE, Evidence Live 2013, Oxford

BIGGER IDEAS

- SBI has been conflated with diagnosis and treatment. UN-DO!
 - SBI's efficacy is as a preventive service (identify, manage)
 - Doctors usually not integral to these (e.g. vaccines, mammograms)
 - Doctors should be involved in asking about alcohol to diagnose and treat symptoms and conditions
 - Danger is we are putting too much on SBI. SBI ≠ problem solved.
 - SBI needs to be part of more comprehensive efforts to care for patients across the spectrum of unhealthy use. From population to integrated prim care and Rx
 - (channel Maristela from AM)







We are the last Dodos on the planet, so I've put all of our eggs safely into this basket...





"Your proposal is innovative. Unfortunately, we won't be able to use it because we've never tried something like this before."

A. BACALL

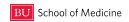




BIGGER IDEAS

- 2. Disruptive innovation. What will it be?
 - Address alcohol and drugs the way we address other health risks and conditions
 - Same financing
 - Systems
 - New (kinds of) staff in general health settings (health behavior)
 - What do you think??











FREE RESOURCES



Slides/curricula: http://www.bumc.bu.edu/care/education-and-training-programs/crit/ Alcohol, Other Drugs and Health: Current Evidence www.aodhealth.org



www.mdalcoholtraining.org

Welcome Boston University Log on

Now accepting submissions

ADDICTION SCIENCE &

CLINICAL PRACTICE



Icohol Screening and

Addiction Science & Clinical Practice (formerly published by NIDA, now BMC) www.ascpjournal.org

Center for Integrated Health Solutions

http://www.thenationalcouncil.org/cs/center_for_integrated_health_solutions

Integrated Primary Care, Inc.

http://www.integratedprimarycare.com/



Instructions for authors FAQ







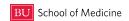




Conclusions

- Integra
- Screening and brief intervention has efficacy for reducing consumption among non-dependent drinkers of risky amounts—a PREVENTIVE service.
 - Hard clinical outcomes, dependence, other drugs, Hospital, emergency department, trauma, implementing in real world...evidence lacking
 - Of course we should assess and treat those with unhealthy use when we find them
 - Identification still important when prescribing, assessing symptoms. Just don't expect efficacy for substance use outcomes







Cochrane Review: General Hospital

- 4 RCTs
- No effect on drinking when trial with high risk of bias excluded (and 3 trials excluded dependence*)

*or more severe drinking or treatment McQueen J et al. Cochrane Database Syst Rev 2011;8:CD005191. DOI: 10.1002/14651858.CD005191.pub3. NB 2009 "inconclusive" ARTICLE Brief Intervention for Medical Inpatients with Unhealthy Alcohol Use A Randomized. Controlled Trial

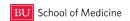
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Intensive effort to implement SBI in UK



- 82 GP practices that agreed to participate (of 2658); 124 docs
- Control: guideline and patient information sent
- Intervention
 - Guideline provided
 - Reminder card on desk
 - 2-3 hr evening training with dinner
 - Feedback re their own patients screened
 - Facilitated linkage to local addiction treatment programs
 - Outreach by trained facilitator
 - Provision of self-help materials for distribution
 - Waiting room poster









- About 10% of at-risk drinkers screened; 3% got advice
 - No significant difference between intervention and control

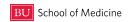
Table 3. Changes in Level of Alcohol Consumption Hazardous use higher in intervention group

AUDIT Category	AUDIT Measurement				
	At Baseline		At 2-Year Follow-up		
	Control Group (n = 366)	Intervention Group (n = 346)	Control Group (n = 249)	Intervention Group (n = 217)	P
Safe to moderate alcohol use		_	47.0	35.5	.01*
Hazardous alcohol use	89.9	91.6	47.4	58.5	.02*
Harmful alcohol use	10.1	8.4	4.0	4.6	.31
Possibly dependent alcohol use		_	1.6	1.4	.84

Values provided as percentages.

Beurden, Anderson et al. Addiction 2012 epub ahead of print DOI: 10.1111/j.1360-0443.2012.03868.x . Hilbink et al JABFM 2012;25:712-22.





^{*}P < .05.



SIPS Pragmatic RCT

Screening and Intervention Programme for Sensible Drinking

- 29 PCP practices agreed to participate; group and individual trainings; refreshers; newsletters; progress reports; £1to screen, £8 for advice, £32 for brief counseling
 - 60% able to implement
 - 40% had to have research staff and alcohol health workers
- 900 (30.1%) screened positive for unhealthy use
 - 756 (84.0%) received feedback and a leaflet
 - Control, 5 min. brief advice (99%), 20 min. brief counseling (57%)

Kaner et al. BMJ 2013;346:e8501 doi: 10.1136/bmj.e8501 (Published 9 January 2013)

Brief tools: FAST and single heavy episode item





SIPS Pragmatic RCT

Screening and Intervention Programme for Sensible Drinking

- 83% 6-month follow-up
- 15-20% no unhealthy use (by AUDIT<8) at baseline
- 29-36% AUDIT<8 at follow-up (better)
- ORs for NO unhealthy use (advice, counseling c/w leaflet)
 - OR 0.85 (95% CI 0.52-1.39)
 - OR 0.78 (95% CI 0.48-1.25)
- No difference in alcohol problems or quality of life



