

CURRENT STATE OF KNOWLEDGE

- Cochrane 2012 review 140 trials of audit and feedback, median absolute improvement +4%, interquartile range +1% to +16%
- Larger effects were seen if:
 - baseline compliance was low.
 - the source was a supervisor or colleague
 - it was provided more than once
 - it was delivered in both verbal and written formats
 - it included both explicit targets and an action plan

Ivers (2012) Cochrane Library



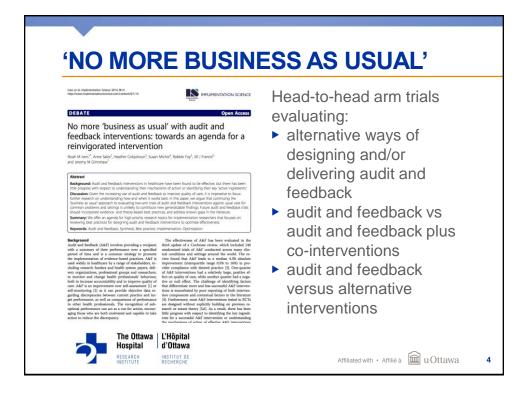
Hospital RESEARCH







Audit and feedback - potential effect modifiers Annals of Internal Medicine ACADEMIA AND THE PROFESSION Practice Feedback Interventions: 15 Suggestions for Optimizing Effectiveness Jamie C. Brehaut, PhD; Heather L. Colquhoun, PhD; Kevin W. Eva, PhD; Kelly Carroll, MA; Anne Sales, PhD; Susan Michie, PhD; Noah Ivers, MD, PhD; and Jeremy M. Grimshaw, MD, PhD Electronic practice data are increasingly being used to provide feedback to encourage practice improvement. However, ovidence suggests that despite deaches of experience, the effects of such interventions vary greatly and are not improving over time. Guidance on providing more effective feedback does exist, but it is distributed across a wide range of disciplines and theo-REMAINING UNCERTAINTIES m Med. doi:10.7326/M15-2248 www.annals.org or affiliations, see end of text. le was published at www.annals.org on 23 February 2016. · Closely link visual display and · Be provided multiple times summary message · Present feedback as soon as · Be presented in multiple ways possible · Minimize cognitive load Provide individual rather than · Address barriers that prevent general data Include clear comparators that use of the feedback · Provide short, actionable reinforce desired behaviour messages followed by more change Support an action perceived to · Address credibility of the be a priority for recipients information Recommend actions that can · Increase motivation to change improve and are under control of the recipient practice Encourage social construction Recommend a specific action of feedback rather than passive Tailor feedback interventions delivery based on situation-specific 3 barriers



IMPLEMENTATION LABORATORIES TO OPTIMISE AUDIT AND FEEDBACK

- Head to head trials need large sample sizes that are unlikely to be realised in one-off research projects
- Increasing delivery of large scale audit and feedback programs within healthcare systems
- Opportunities to collaborate with these programs to efficiently advance implementation science about how to optimise audit and feedback







IMPLEMENTATION LABORATORIES TO OPTIMISE AUDIT AND FEEDBACK

$Reducing\ research\ was te\ with\ implementation\ laboratories$

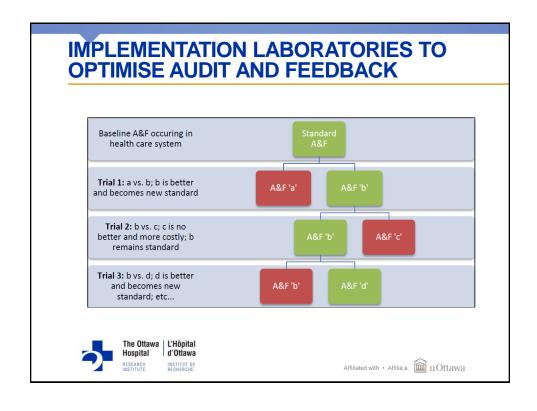
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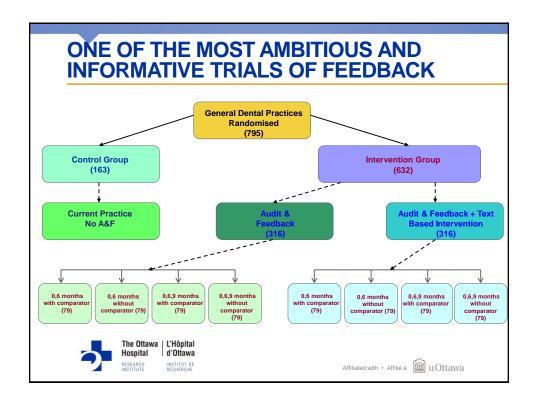
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ONE OF THE MOST AMBITIOUS AND INFORMATIVE TRIALS OF FEEDBACK

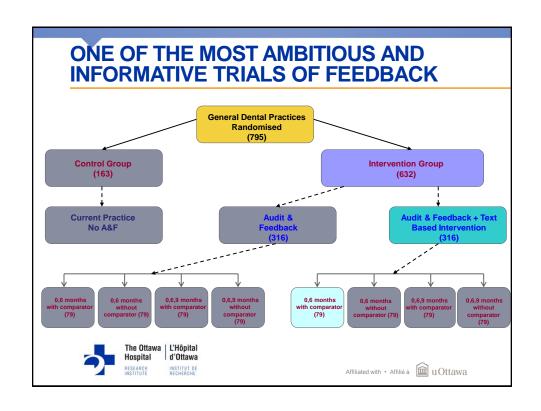
Primary Analysis

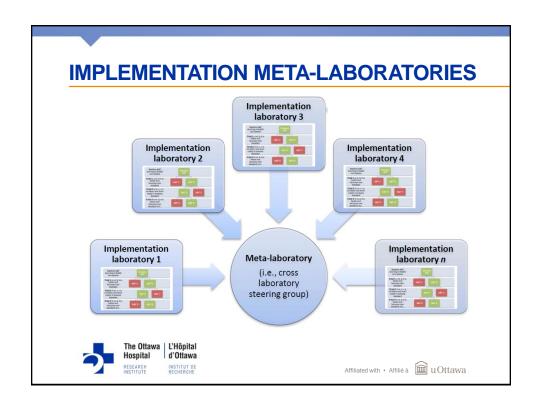
- Prescribing rate in the A&F group 6% lower than control
 - extrapolated decrease: 20,000 antibiotic items across Scotland

Comparing Intervention Components

- Prescribing rate lower for dentists:
 - receiving BC message (-6%)
 - provided with a HB comparator (-4%)
- Frequency of feedback did not make a difference

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SUMMARY

- A&F effective way to change physician behaviour and improve quality of care
- Substantial uncertainty about how to optimise A&F to maximise its effects
- Opportunities for collaborative partnerships between healthcare organisations providing A&F and researchers to improve current feedback and our understanding of effect modifiers

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