



Systematic Review

The effectiveness of Audit and Feedback in Obstetrics



Samira El M. T. Haddad
Department of Obstetrics and Gynecology
University of Campinas – Brazil



Training Course in Reproductive Health Research
WHO 2008
IAMANEH Scholarship

Coauthors

Metin Gülmezoglu, MD, PhD

José Guilherme Cecatti, MD, PhD

João Paulo Souza, MD, MSc

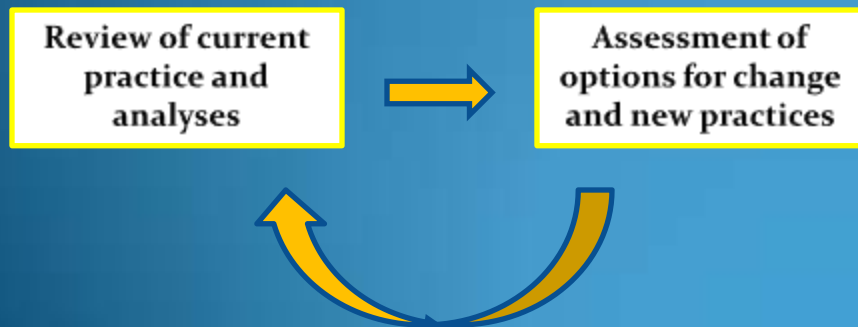
Maria Laura Botelho Costa, MD

Background

- Several researches in obstetrics (Millennium Development Goals)
- Harmful or not beneficial treatment despite evidence
- Delay in changing practice
 - Time to read
 - Access
 - How to search?
 - Need for recommendations
 - Guidelines

Background

- Strategies of implementation of evidence-based practices (multifaceted strategies)
- Audit and Feedback (cycle)



General X Obstetrics

Background

- Chaillet et al, 2006 – *Evidence-based strategies for implementing guidelines in obstetrics.*
- Chaillet et al, 2007 – cesarean section

Objectives

Is Audit and Feedback effective to change practice in obstetrics?

1. To analyze the effectiveness of audit and feedback regarding each target outcome compared with no audit and feedback or another strategy of implementation.
2. To identify the barriers faced during the implementation of audit and feedback for each target outcome.

Selection Criteria

Types of Studies

Cluster, randomized and quasi-randomized controlled trials

Controlled before and after studies and interrupted time series studies

Participants

Facilities where “audit and feedback” has been performed as a strategy to implement practice in obstetrics

Interventions

Audit and feedback X other strategy or none

Selection Criteria

Outcomes

- Effectiveness on behavior change for each target outcome:
 - Prevention actions
 - Management of labour and obstetric complications
 - Procedures
 - Reduction on neonatal complications
- Barriers faced during the implementation

Search Strategy

Databases

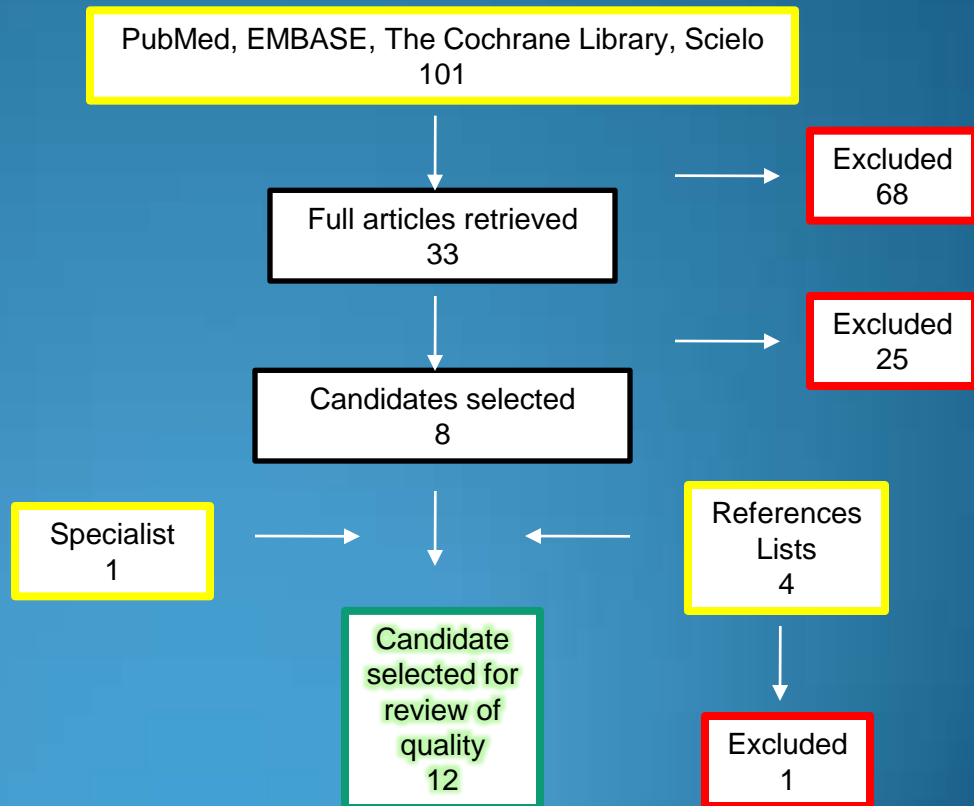
MEDLINE / PubMed, The Cochrane Library, EMBASE, Scielo

References lists

Specialists

Methods

Selection of studies



Methods

Quality assessment

- Two reviewers
- The Cochrane Handbook for Systematic Review of Intervention
- Meta-analysis of these results for deriving common estimates will be performed if heterogeneity among studies is not significant

Results

Candidate Studies

Byaruhanga, 2000

Pattinson et al, 2006

Costa et al., 2008

Taylor, 2000

Dumont et al, 2005

Vincent et al, 2005

Duncan et al, 2006

Wagaarachchi et al, 2001

Lombaard et al, 2005

Wittayawarawat et al, 2007

Mousa et al, 2000

Yung et al, 2001

The Effectiveness of Audit and Feedback in Obstetrics – Systematic Review

References

Brown L. *The New Shorter Oxford English Dictionary*. Oxford: Clarendon Press, 1993

Chaillet N, Dubé E, Dugas M, Audibert F, Tourigny C, Fraser WD, Dumont A. Evidence-based strategies for implementing guidelines in obstetrics: a systematic. *Obstet Gynecol*. 2006 Nov; 108(5):1234-45.

Chaillet N, Dumont A. Evidence-based strategies for reducing cesarean section rates: a meta-analysis. *Birth*. 2007 Mar; 34(1):53-64.

Chaillet N, Dubé E, Dugas M, Francoeur D, Dubé J, Gagnon S, Poitras L, Dumont A. Identifying barriers and facilitators towards implementing guidelines to reduce caesarean section rates in Quebec. *Bull World Health Organ*. 2007 Oct; 85(10):791-7.

Crombie IK, Davies HTO, Abraham SCS, Florey C du V (Eds). *The audit handbook. Improving health care through audit*. New York: John Wiley & Sons, 1997

Grimshaw J, McAuley LM, Bero LA, Grilli R, Oxman AD, Ramsay C, Vale L, Zwarenstein M. Systematic reviews of the effectiveness of quality improvement strategies and programmes. *Qual Saf Health Care*. 2003 Aug; 12(4):298-303.

Gülmezoglu A, Langer A, Piaggio G, Lumbiganon P, Villar J, Grimshaw J. Cluster randomized trial of an active, multifaceted educational intervention based on the WHO Reproductive Health Library to improve obstetric practices. *BJOG* 2007; 114:16-23.

Lomas J, Anderson GM, Domnick-Pierre K, Vayda E, Enkin MW, Hannah WJ.

Do practice guidelines guide practice? The effect of a consensus statement on the practice of physicians. *N Engl J Med*. 1989 Nov 9; 321(19):1306-11. Review.

Thompson O'Brien MA, Oxman AD, Davis DA, Haynes RB, Freemantle N, Harvey EL. *Audit and Feedback versus alternative strategies: effects on professional practice and health care outcomes*. The Cochrane Library. Oxford, 2001

United Nations Department of Economic and Social Affairs DESA. *The Millennium Development Goals Report June 2007*. Accessed 30 November 2007
http://millenniumindicators.un.org/unsd/mdg/Resources/Static/Products/Progress2007/UNSD_MDG_Report_2007e.pdf

World Health Organization (WHO). *Evidence-led obstetric care - Report of a WHO meeting*. Geneva, 2004

The Effectiveness of Audit and Feedback in Obstetrics – Systematic Review

Thank You!



semth@uol.com.br

