

RESEARCHERS AND INFORMATION SPECIALISTS COLLABORATING IN THE DEVELOPMENT OF A GUIDELINE ON PREVENTION AND TREATMENT OF POSTPARTUM HEMORRHAGE

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Postpartum hemorrhage (PPH)

It is the leading cause of maternal mortality

- Blood loss exceeding 500 mL following Vaginal Birth
- Blood loss exceeding 1000 mL following Cesarean Section
 - Primary within 24 hours of birth
 - Secondary from more than 24 hours post birth up to 12 weeks

Italian Obstetrics Surveillance System



The ItOSS Project

- Six Italian Regions
- 2006-2012
- PPH is one of the three top causes of maternal mortality
- Many deaths associated with PPH could be prevented with prompt recognition and appropriate treatment

Regional Map of Italy



Six Italian regions in which the Italian Obstetric Surveillance System identified PPH as the leading cause of maternal mortality

New roles for medical librarians

- Information specialists/librarians support evidence-based health care
- Among changing roles of health science librarians:
 - Expert searching
 - Organization and analysis of the information retrieved
 - Systematic Reviews Librarian
 - Interaction with investigators
 - Comprehensive search strategy



An example of search terms used for retrieving references on Coenzyme Q10 and Parkinson Disease

Search (((((((Coenzyme Q10 [Supplementary Concept]) OR "Coenzyme Q10" [TIAB]) OR "coq 10" [tiab]) OR coq10 [tiab]) OR ubidecarenone [tiab]) OR "co enzyme q10" [tiab]) OR "ubiquinone q10" [tiab]) OR "bio quinone q10" [tiab]) AND Parkinson* Sort by: PublicationDate

Search "bio quinone q10" [tiab] Sort by: PublicationDate

Search "ubiquinone q10" [tiab] Sort by: PublicationDate

Search "co enzyme q10" [tiab] Sort by: PublicationDate

Search ubidecarenone [tiab] Sort by: PublicationDate

Search coq10 [tiab] Sort by: PublicationDate

Search "coq 10" [tiab] Sort by: PublicationDate

Search "Coenzyme Q10" [TIAB] Sort by: PublicationDate

Search Coenzyme Q10 [Supplementary Concept] Sort by: PublicationDate

Systematic review

A scientific investigation that focuses on a specific question and uses explicit, pre-specified scientific methods to identify, select, assess, and summarize the findings of similar but separate studies. It may include a quantitative synthesis (meta-analysis), depending on the available data

Institute of Medicine (IOM) of the National Academies of Sciences (USA)

Practice Guidelines

Statements that include recommendations intended to optimize patient care that are informed by a systematic review of evidence and an assessment of the benefits and harms of alternative care options".

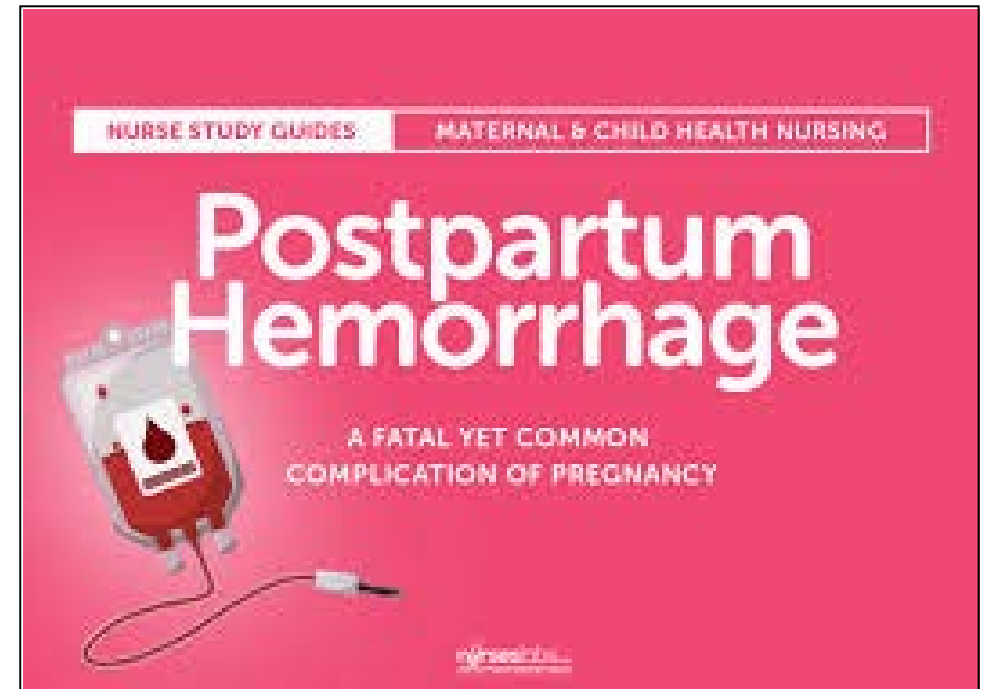
Institute of Medicine (IOM) of the National Academies of Sciences (USA)

Multidisciplinary Panel



Clinical Queries required by Panel Members

- Panelists focused on two aspects:
- Treatment of PPH
- Prevention of PPH



Search Strategy for the Treatment of Postpartum Hemorrhage

postpartum hemorrhage/ct or postpartum hemorrhage/ti,ab or postpartum haemorrhage/ti,ab or
 (pph/ti,ab and postpartum/ti,ab) or obstetric hemorrhage/ti,ab or obstetric haemorrhage/ti,ab or
 ((postpartum period/ct or postpartum/ti,ab or post partum/ti,ab) and (hemorrhage/ct or
 hemorrhage/ti,ab or haemorrhage/ti,ab))
 and
 (management/ti,ab or therapy/ti,ab or therapeutics/ct or treatment/ti,ab or fundal massage/ti,ab or
 uterine massage/ti,ab or (fundus/ti,ab or fundal/ti,ab or uterus/ti,ab or uterus/ct or uterine/ti,ab) and
 (massage/ti,ab or massage/ct)) or compression/ti,ab or antishock garment#/ti,ab or gravity suits/ct or
 fluid therapy/ct or uterotonic/ti,ab or oxytocin/ti,ab or oxytocin/ct or pitocin/ti,ab or oxytocic#/ti,ab or
 oxytocics/ct or misoprostol/ti,ab or misoprostol/ct or cytotec/ti,ab or methylergonovine/ti,ab or
 methylergonovine/ct or methergine/ti,ab or ergonovine/ti,ab or ergonovine/ct or ergotrate/ti,ab or ergot
 alkaloids/ct or ergot/ti,ab or ergometrine/ti,ab or carboprost/ti,ab or carboprost/ct or carboprost
 tromethamine/ct or pge1/ti,ab or hemabate/ti,ab or fluid resuscitation/ti,ab or isotonic crystalloid#/ti,ab or
 blood transfusion/ct or crystalloid solutions/ct or ringer lactate/ti,ab or lactated ringer?/ti,ab or ringer's
 lactate/ct or isotonic saline/ti,ab or blood products/ti,ab or volume replacement/ti,ab or fibrinogen/ct or
 fresh frozen plasma/ti,ab or plasma/ct or packed cells/ti,ab or intrauterine balloon/ti,ab or
 cryoprecipitate/ti,ab or uterine tamponade/ti,ab or balloon tamponade/ti,ab or uterine balloon/ti,ab or
 bakri balloon/ti,ab or uterine balloon tamponade/ct or ((uterus/ct or uterus/ti,ab or uterine/ti,ab or
 intrauterine/ti,ab) and (pack?/ti,ab)) or bakri balloon/ti,ab or arterial embolization/ti,ab or artery
 embolization/ti,ab or embolization therapeutic/ct or artery ligation/ti,ab or ligation/ct or arterial
 ligation/ti,ab or laceration repair/ti,ab or recombinant activated factor VII/ti,ab or rfvlla/ti,ab or
 factorviia/ct or laparotomy/ti,ab or laparotomy/ct or hysterectomy/ti,ab or hysterectomy/ct or b
 lynch/ti,ab or suture techniques/ct or suture/ti,ab or suturing/ti,ab or uterine inertia/prevention and
 control/ct or uterine inertia/therapy/ct or uterine inversion/therapy/ct or uterine rupture/therapy/ct
 or dilatation and curettage/ct or curettage/ti,ab or uterine exploration/ti,ab or urinary catheterization/ct
 or catheter balloon/ti,ab or balloon catheter/ti,ab or
 foley catheter/ti,ab or condom catheter/ti,ab or condom tamponade/ti,ab or (condoms/ct and
 balloon/ti,ab) or rusch balloon/ti,ab or sengstaken blakemore/ti,ab or (manual removal/ti,ab and
 placenta/ti,ab) or placenta, retained/therapy/ct

Clinical Queries for the Prevention of PPH

- Is the active management of the third stage of labor more effective than the physiological management?
- Is synthetic oxytocin (syntocinon) more effective than synthetic oxytocin plus ergometrine (syntometrine) in the active management of the third stage of labor?
- Does delayed cord clamping in the active management of the third stage improve maternal and neonatal outcomes compared to early cord clamping?
- What is the most effective management of retained placenta in women who have had active management of the third stage of labor?
 - a) with PPH
 - b) without PPH
- Does the method of management of the third stage of labor affect the outcome?
- What is the effective management of delay in the third stage?
- Are there effective ways of identifying women at increased risk of postpartum hemorrhage antenatally and during labor?
- What is the effective management of women at increased risk of postpartum hemorrhage to minimize this risk?

Process of developing a Practice Guideline

- The titles and abstracts of the articles were screened for relevance in respect to the key question
- If it was not possible to assess their relevance, the full text was read and selected, if pertinent
- The articles were appraised for eligibility, in accordance with the inclusion/exclusion criteria
- Data extraction was performed independently by two researchers;
- Any disagreements were resolved either by consensus among researchers or by arbitration by an additional independent researcher
- Data were extracted from the selected studies by completing data extraction tables.

New challenges in our activity

- To assess guidelines in a set about rare hematologic diseases
- The evaluation was carried out according to the **AGREE II methodology**

AGREE II

AGREE II is the new (2010) international tool to assess the quality and reporting of practice guidelines. You may access the [PDF copy of the AGREE II here](#).

Please use the following reference when citing the AGREE II:

Brouwers M, Kho ME, Browman GP, Burgers JS, Cluzeau F, Feder G, Fervers B, Graham ID, Grimshaw J, Hanna S, Littlejohns P, Makarski J, Zitzelsberger L for the AGREE Next Steps Consortium. AGREE II: Advancing guideline development, reporting and evaluation in healthcare. *Can Med Assoc J*. 2010. Available online July 5, 2010. doi:10.1503/cmaj.090449



In addition to the "paper" version of AGREE II, we have created an electronic version of the AGREE II that allows you to complete an AGREE II assessment of practice guidelines online. You may access this online version in the **My AGREE PLUS** section of this website.

Conclusions

- Information specialists contribution in supporting evidence-based health care is not an easy task
 - It requires multidisciplinary skills
 - Medical terminology
 - Information science
 - Technology

Thank you for your attention!
¡Gracias por sus atención!
Danke für Ihre Aufmerksamkeit!
Merci pour votre attention!
Дякую за увагу!
感謝您的關注！
Köszönöm a figyelmet!
ご清聴ありがとうございました！