

# Development of guideline based quality indicators for post partum hemorrhage to improve quality of care

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*for the Fluxim study group*

# Background

## Post partum hemorrhage (PPH)

- Definition:  $\geq 1000$  cc blood loss (birth of the child till 24 hour after)
- Leading cause of maternal mortality worldwide
- N<sup>o</sup> 1 cause of maternal morbidity in the Netherlands

# Background

- Introduction of a nationwide evidence based guideline and the course Management Obstetric Emergency Trauma (MOET) did not reduce the incidence rates
- Incidence rates 2007-2009: 4%, 5.2% and 7%

**14.000 women 2009**

# Background

- Incomplete implementation of the guideline and MOET instructions?
- Insight into the daily care is essential to achieve successful implementation
- Measure the actual care by guideline based quality indicators

# Aim

- Systematically develop a set of quality indicators based on the evidence based guideline on PPH and MOET instructions
- A tool to assess actual guideline adherence in the daily care in PPH with the aim to improve quality of care

# Method

## Rand-modified-Delphi procedure in 4 steps

### Step 1

Recommendation selection guideline, MOET instructions and literature

### Step 2

- Written questionnaire rating by an expert panel
- Scoring: 9 point Likert scale and a top 3 or 5 ranking
- Valid by the Campbell criteria
- Additional recommendations

# Method

## Rand-modified-Delphi procedure in 4 steps

### Step 3

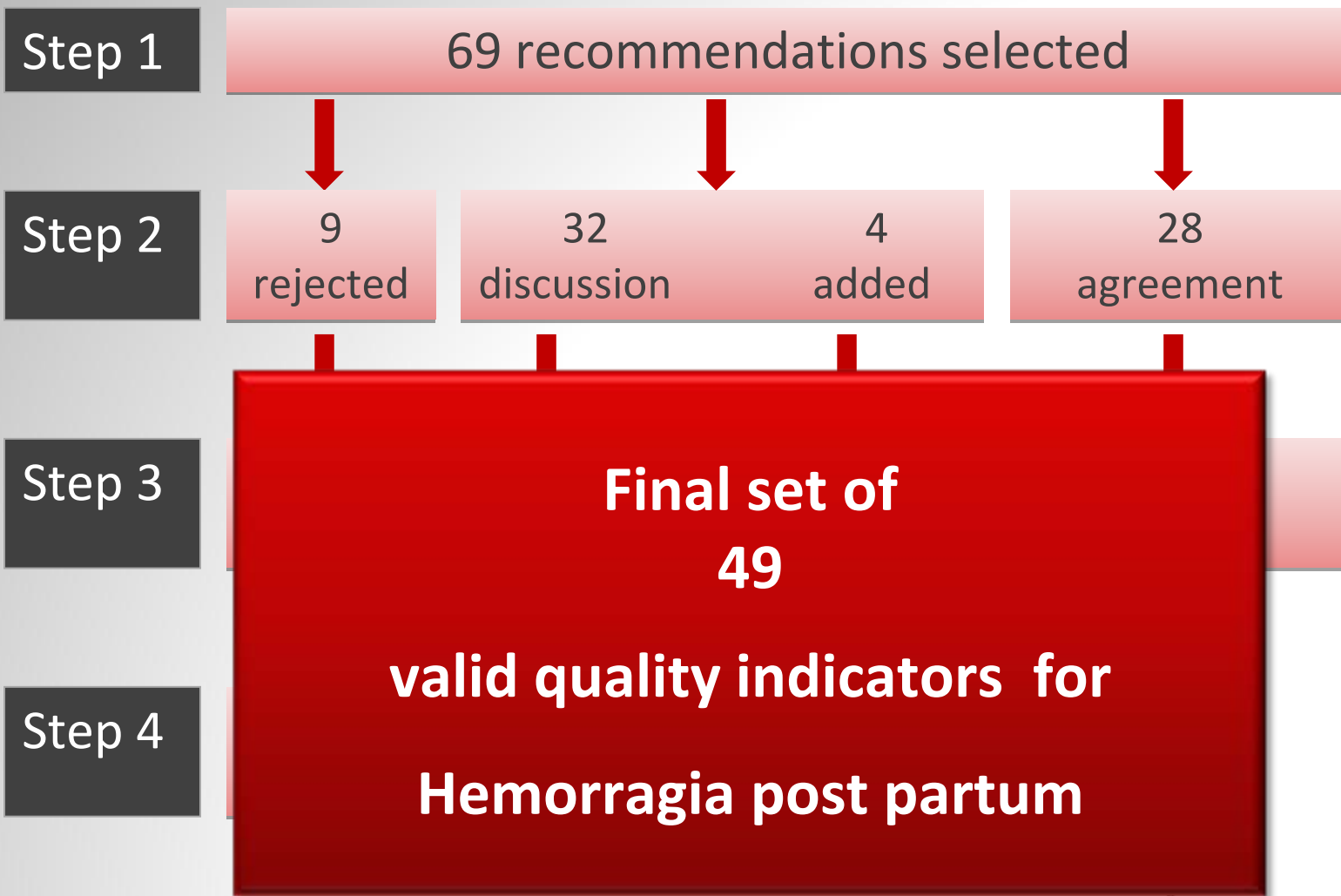
Consensus meeting

*Criteria for selection of recommendations : improvement of quality of care in PPH patients*

### Step 4

- Critical evaluation and definition final set
- E-mail round final check expert panel
- Operationalization for the clinical setting

# Results





# Distribution of the 49 indicators

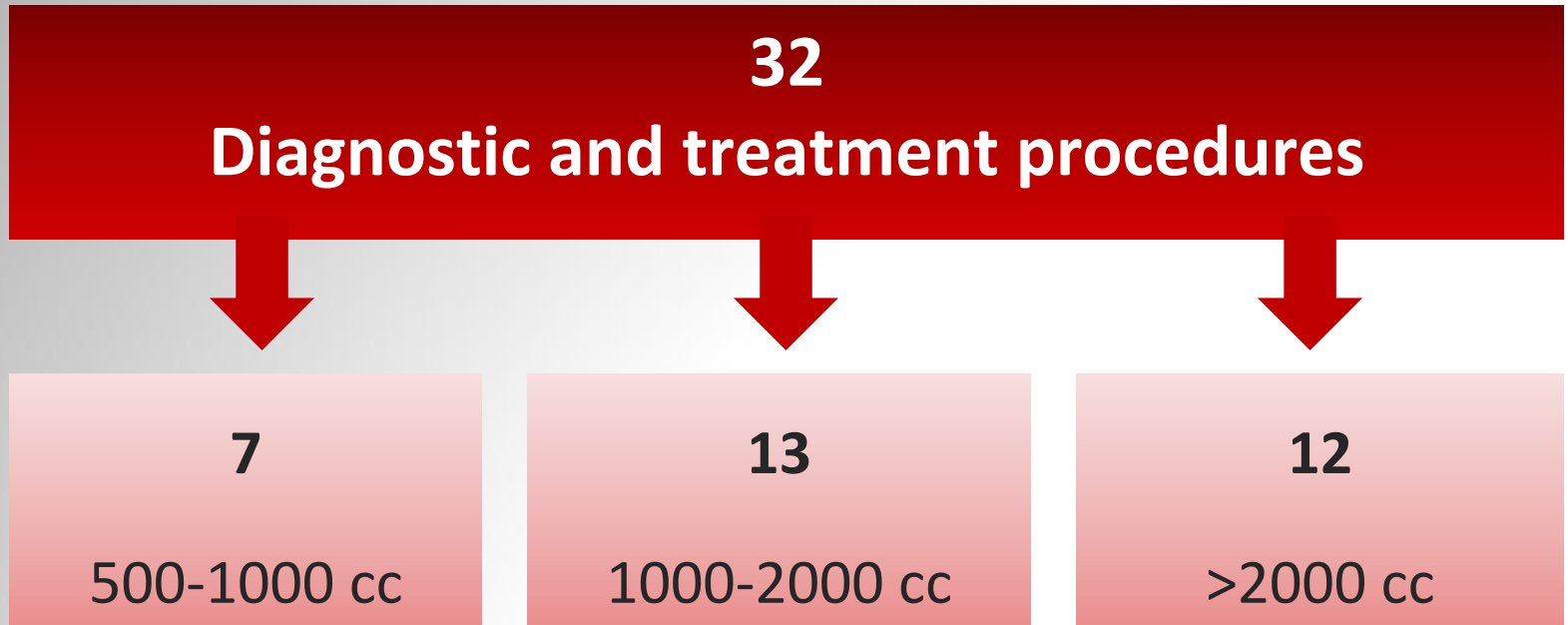
**5**

## **Prevention procedures**

As a precautionary measure to prevent PPH  
the clinician should...

... provide a good running infusion during delivery in case  
of a high risk patient on PPH.

# Distribution of the 49 indicators



In case of a patient with PPH (1000 -2000 cc), the clinician should rapidly provide a second infusion

# Distribution of the 49 indicators

**12**

## **Structural indicators**

Each hospital should provide simulation team training (skills and drills) on regular basis, according to the MOET course

# Conclusion

- Stepwise systematic development
- 49 valid guideline-based process and structure indicators
- Observe the actual care in high risk patients for PPH
- First step implementation route and improving quality of care in PPH

# The Fluxim study

- Actual care assessment in 16 hospitals on 400 high risk patients for PPH
  - observation of the third stage of labor by video recording and medical chart search
  - organizational care for PPH
- Barriers and facilitators
- Development and test a tailor-made implementation strategy in a feasibility study

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13-aug-2010 **New study added: The TOAST study.** In the urogynaecological **TOAST study**, two midurethral sling replacement methods are compared in women with urinary stress incontinence.

16-jul-2010 **New study added: The FLAMINGO study.** In the fetal medicine **FLAMINGO study**, fetal markers will be identified using ultrasound to predict neonatal gastroschisis.

8-jul-2010 **Lekenpraatje van Denise Bijlenga online: lekenpraatje Bijlenga (ppt).**

6-jul-2010 **The annual report 2009 of the consortia for research in obstetrics, fertility and (uro)gynaecology is available** (in Dutch). It can be downloaded [here](#), or you can request a hardcopy by email via [info@studies-obsgyn.nl](mailto:info@studies-obsgyn.nl).

5-jun-2010 **New study added: The PLUTO study.** In the prenatal diagnostics **PLUTO study** two methods will be compared for treatment of congenital fetal lower urinary tract obstruction.

30-may-2010 **STAN trial main article is published in Obstetrics and Gynecology.** A pdf of the publication can be downloaded [here](#).

7-may-2010 **New study added: The ANTARCTICA study.** In the fertility **ANTARCTICA study** two methods of endometrium preparation will be compared for cyto-thawed embryo transfer.

9-apr-2010 **New study added: The SIMPLE study.** The obstetrics implementation study **SIMPLE** aims at gaining insight into current adherence of Dutch gynaecologists to the guidelines for performing CS deliveries.

25-mar-2010 **The NEJM article of the ALIFE study is now available online.** The full article of the **ALIFE study** can be read [here](#). Also available is the press release [press release](#) about this publication (in Dutch).

18-mar-2010 **New study added: The IMPACT study.** The obstetrics HTA study **IMPACT** aims at improving participation to clinical trials.

7-mar-2010 **New study added: The BIG CHANGE study.** The obstetrics implementation study **BIG CHANGE** focuses on the implementation of guidelines on gestational hypertension.



# Thank You



## Thank the expertpanel