

OCCCLUSION TECHNIQUES FOR TUBAL STERILIZATION

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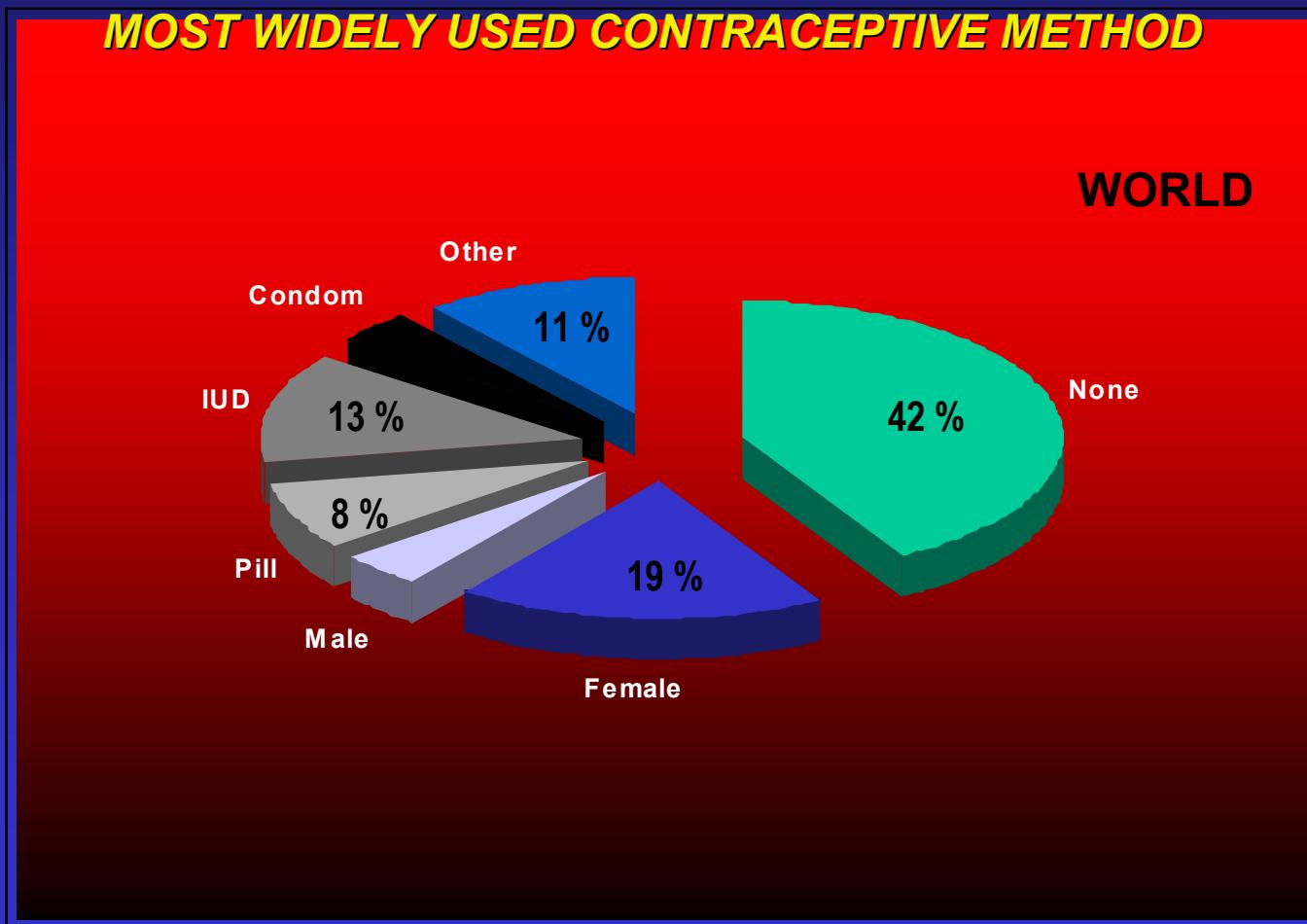
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TUBAL STERILIZATION

THE PROCEDURES

- *Minilaparotomy vs Laparoscopy*
- *Interval vs Postpartum*
- *General vs Local anaesthesia*
- *Occlusion Techniques:*
 - *Pomeroy - Other related techniques*
 - *Electrocoagulation (bipolar- unipolar)*
 - *Tubal ring*
 - *Clips (Hulka, Filshie)*
 - *Chemical agents (quinacrine, MCA)*
 - *Removable plugs*

TUBAL STERILIZATION TODAY



United Nations 1998 Report

OBJECTIVES

*To compare the different **tubal occlusion techniques** in terms of major and minor **morbidity**,
failure rates (pregnancies),
technical difficulties
and
women and surgeons satisfaction*

ANALYSIS

- All RCTs

- Inclusion criteria:

Concealment of allocation

- Analysis in five subgroups:

• *Tubal ring vs Clip - 4 Trials*

• *Tubal ring vs Electrocoagulation - 3 Trials*

• *Pomeroy vs Electrocoagulation - 2 Trials*

• *Pomeroy vs Clip - 1 Trial*

• *Hulka vs Filshie Clip - 1 Trial*

INCLUDED STUDIES

Study ID	Method of Randomization	Participants	Interventions
Stovall 1991	Computer-generated schedule	365 women	Spring-loaded clip vs tubal ring
Aranda 1985	Computer generated labels and sealed in opaque envelopes Multicenter	663 women	Tubal ring vs Rocket clip
Argueta 1980	Not specified	299 women	Spring-loaded clip vs tubal ring
Sitompul 1984	Not specified	300 women	Modified Pomeroy technique vs electrocoagulation
WHO 1982	Envelopes centrally generated by WHO Multicenter	1827 women	Modified Pomeroy method vs electrocoagulation
Aranda 1976	Sealed envelopes containig a card.	299 women	Electrocoagulation vs tubal ring
Koetsawang 1978	Not stated.	300 women	Unipolar electrocoagulation vs ti ring
Yan 1990	Sealed preprinted labels	200 women	Pomeroy method vs Filshie clip
Toplis 1988	Envelopes	200 women	Hulka clip vs Filshie clip
Lipscomb 1994	Computer-generated numbers	500 women	1)Silastic ring, 2) Bipolar electrocoagulation, 3) Hulka clip

RESULTS

Comparison	Major Morbidity	Minor Morbidity	Technical Failures	Failure Rate	Complaints
Tubal ring vs Clip	0.14 (0.00-7.05)	2.15 (1.22-3.78)	3.87 (1.9-7.89)	1.48 (0.67-3.28)	1.18 (0.9-1.54)
Tubal ring vs Coagulation	0.14 (0.00-7.01)	0.97 (0.5-1.87)	3.42 (0.6-19.8)	7.62 (1.1-54.5)	2.32 (1.78-3.04)
Pomeroy vs Coagulation	2.87 (1.13-7.25)	1.60 (1.10-2.33)		NS	4.47 (0.1-286.8) 2.14 (1.74-2.62)
Pomeroy vs Clip	NS	7.39 (0.5-119.1)		NS	8.28 (0.1-419.9) NS
Hulka vs Filshie clip	NS	0.14 (0.00-7.32)		NS	1.74 (0.99-3.03)

Table 1: Overall results reported as Odds Ratio and Confidence Interval (CI).

RESULTS

Comparison: 03 Tubal ring versus electrocoagulation

Outcome: 08 Failure rate, total

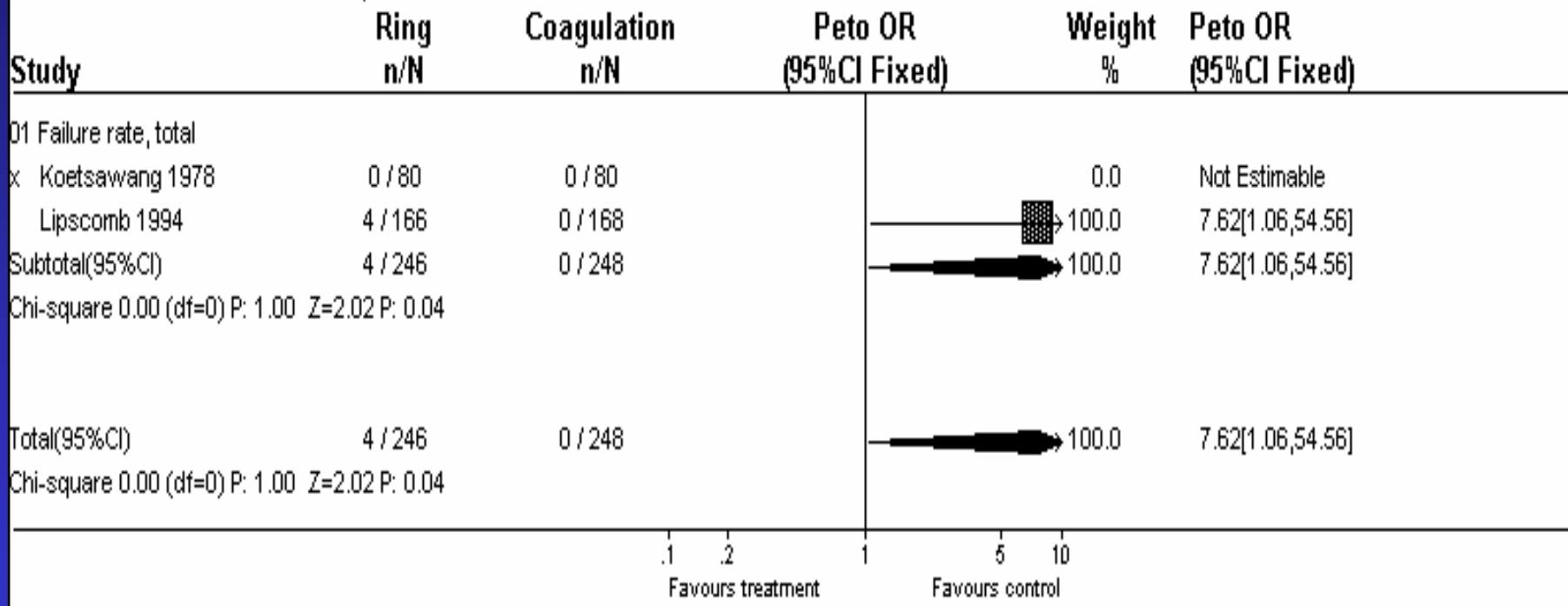


Figure 2: Effect of small sample size on the CI for failure rate in the comparison between tubal ring and electrocoagulation

RESULTS

Comparison: 02 Modified Pomeroy versus electrocoagulation

Outcome: 12 Complaints

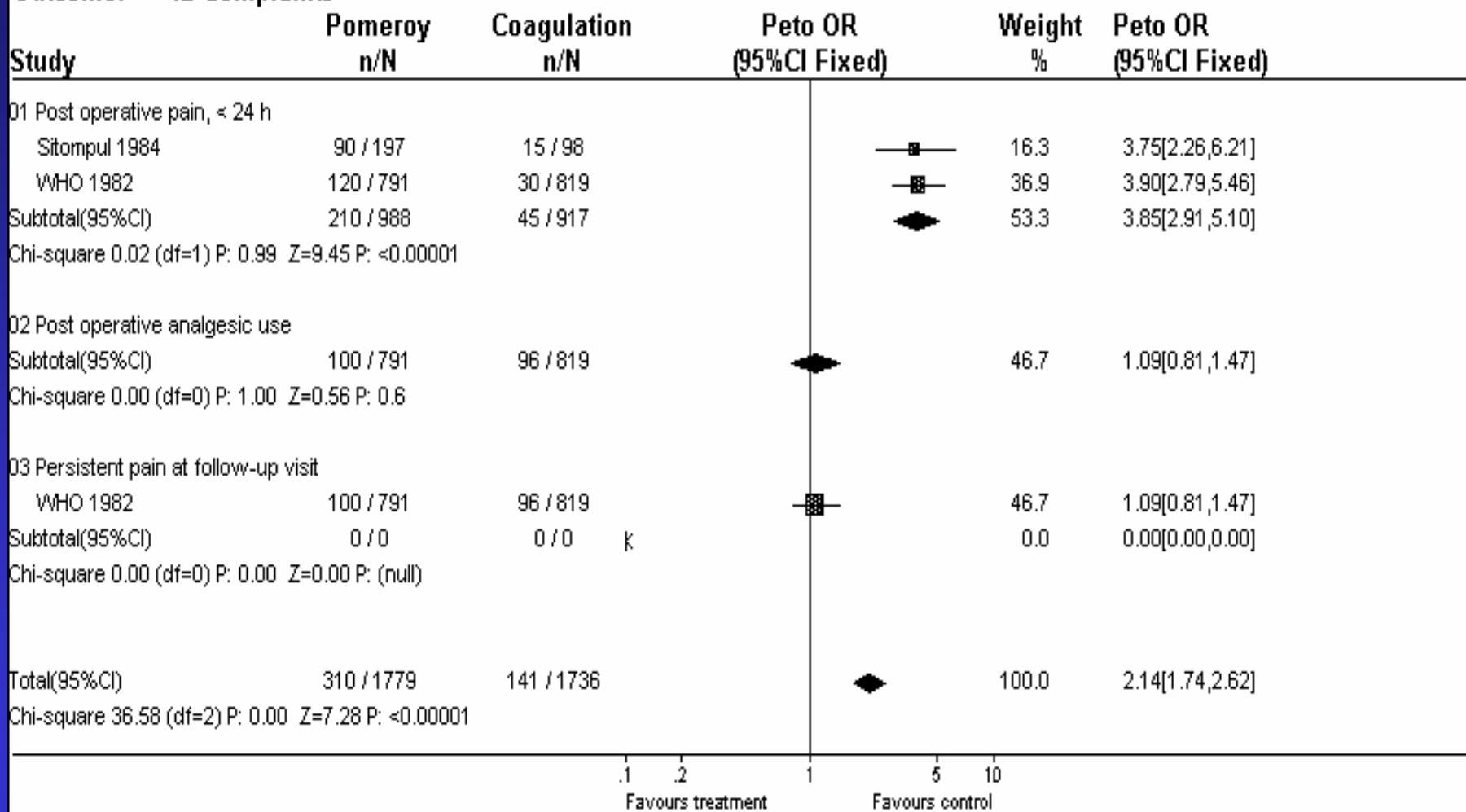


Figure 1: Effect of a common variable in the comparison between Pomeroy and EC

CONCLUSIONS

- *Inadequate sample size for rare outcomes, some of them life-threatening*
- *Inadequate follow-up for some variables such as failure rate*
- *Lack of information for other important contributing factors*
- *Proper education and practical aspects of complex techniques in developing country centers*

Thank You