



# Tubal ring vs clip

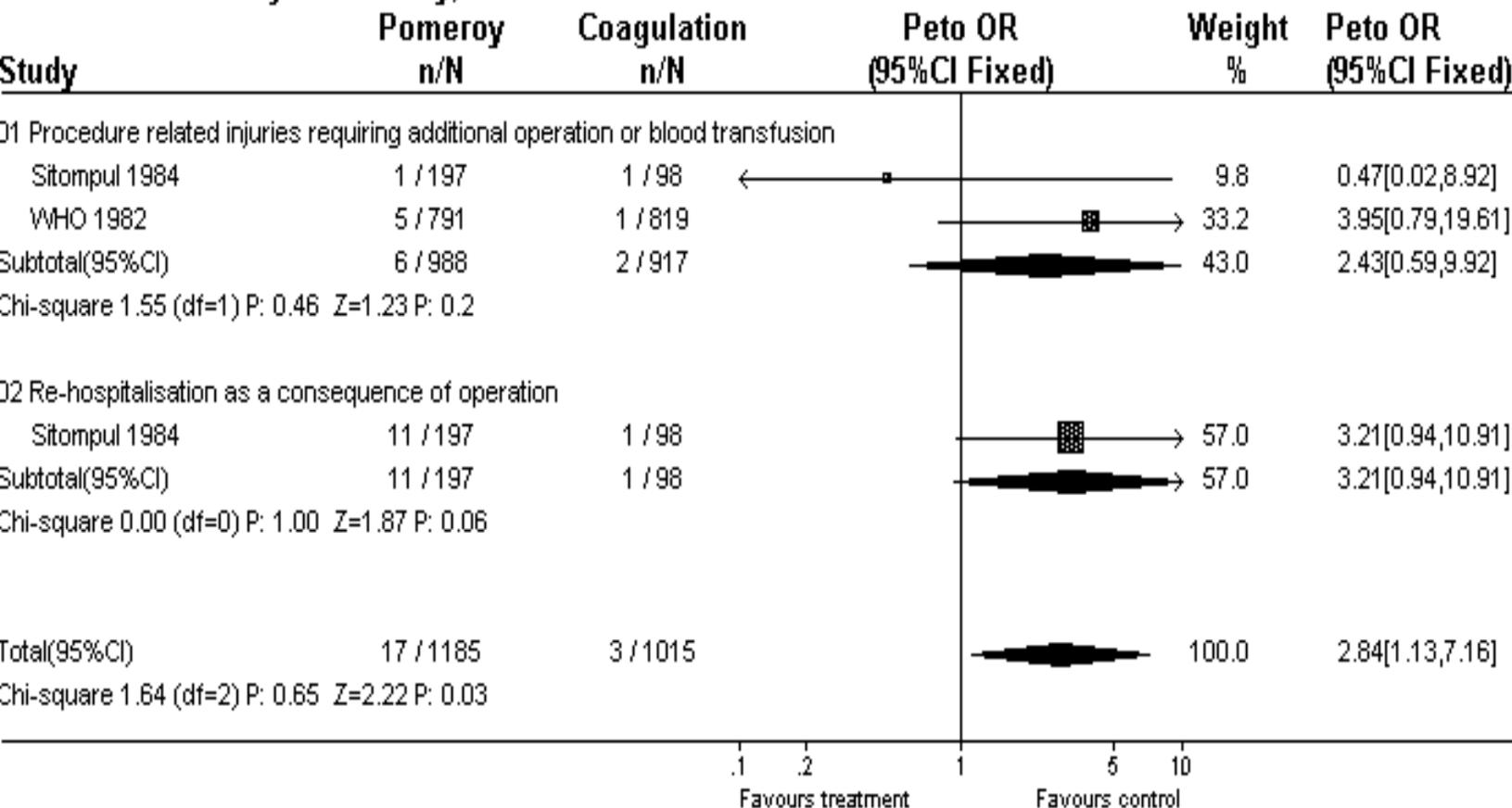
- No differences were found with regard to:
  - pregnancy rates
  - technical difficulties
  - postoperative complaints
  - menstrual irregularities



# Pomeroy vs electrocoagulation: major morbidity

Comparison: 02 Modified Pomeroy versus electrocoagulation

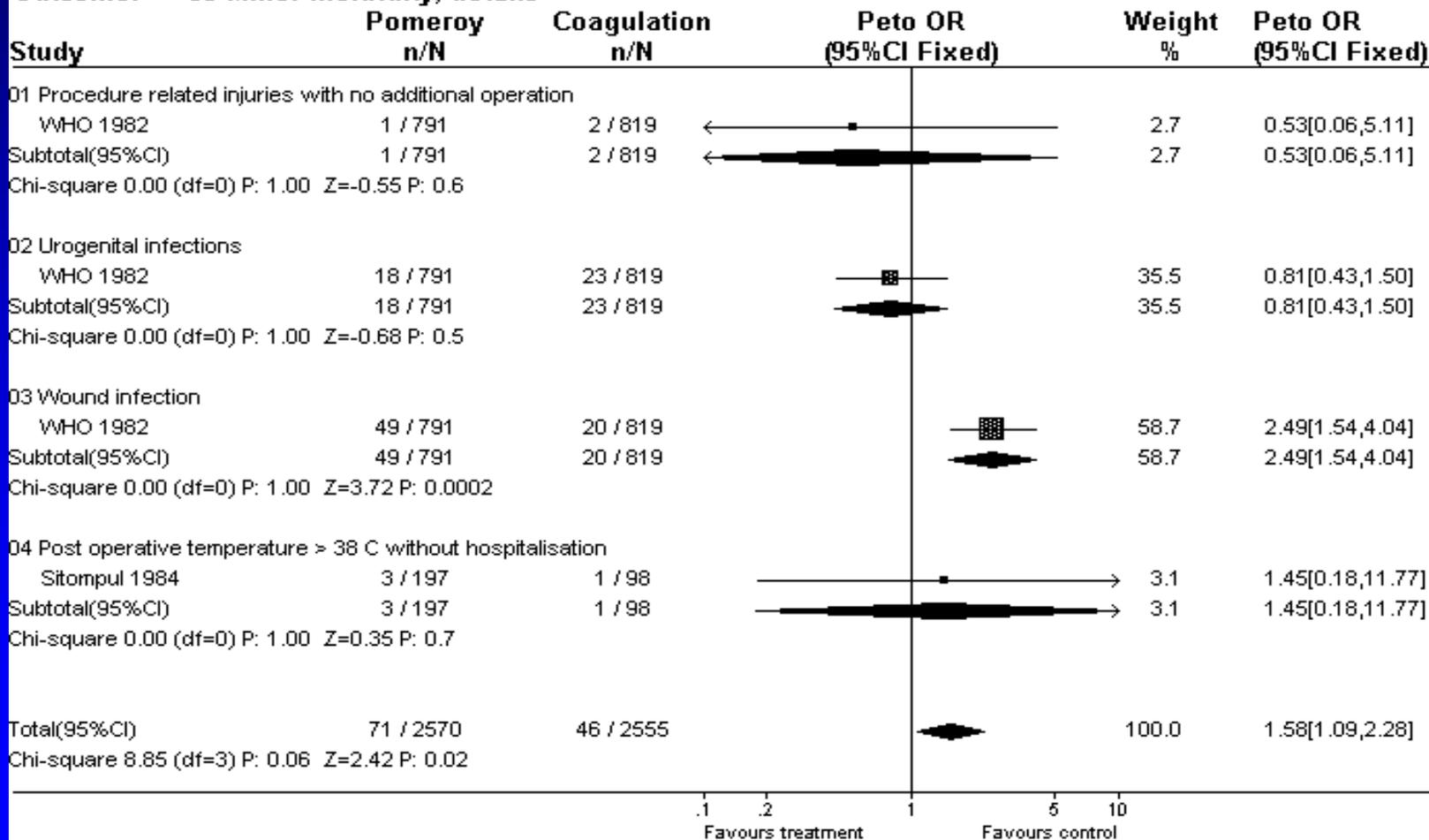
Outcome: 03 Major morbidity, details



# Pomeroy vs electrocoagulation: minor morbidity

## Comparison: 02 Modified Pomeroy versus electrocoagulation

### Outcome: 05 Minor morbidity, details

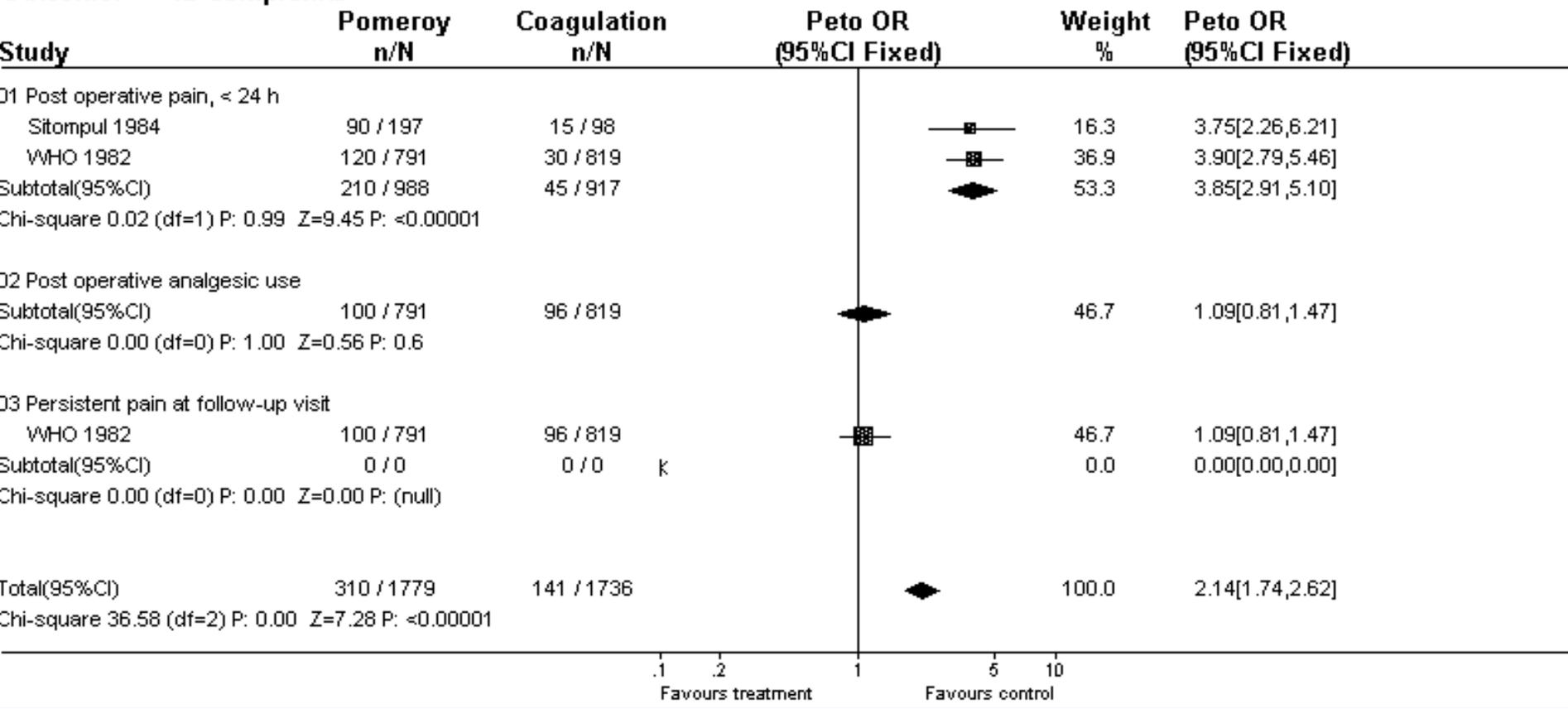




# Pomeroy vs electrocoagulation: postoperative pain

Comparison: 02 Modified Pomeroy versus electrocoagulation

Outcome: 12 Complaints

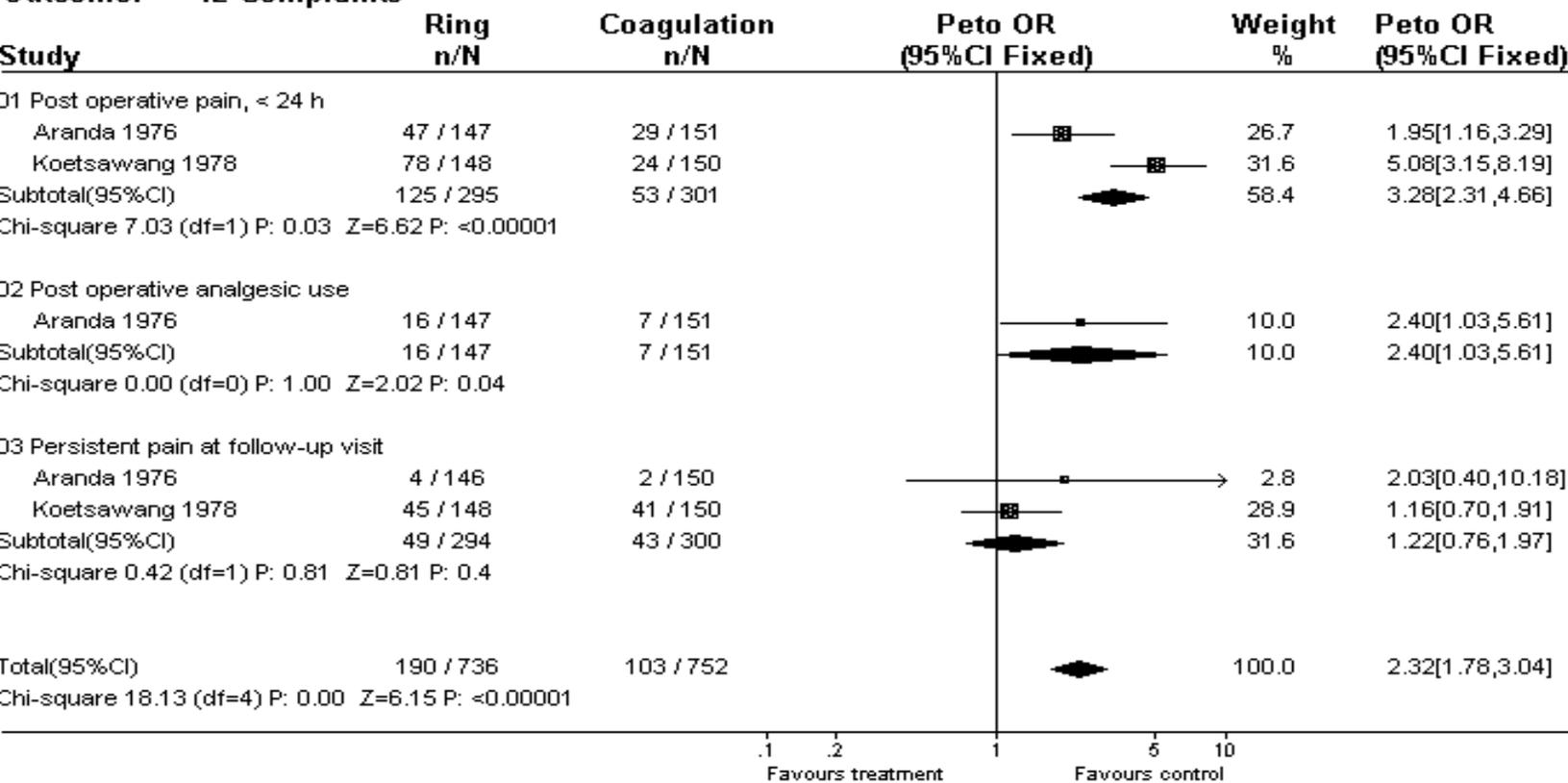




# Tubal ring vs electrocoagulation: postoperative pain

Comparison: 03 Tubal ring versus electrocoagulation

Outcome: 12 Complaints





# Tubal ring vs electrocoagulation

---

- No statistically significant differences:
  - major, minor morbidity
  - efficacy
  - technical failures



# Pomeroy vs clip (n=200)

## ➤ Similar

- minor morbidity
- menstrual irregularities
- Pomeroy: 1 pregnancy



# Filshie vs Hulka n=200

➤ Similar:

➤ major, minor complications



# Risk of pregnancy after tubal sterilisation

- cohort: 10 685 women
- follow-up: 8-14 years
- laparoscopic:
  - unipolar/bipolar coagulation
  - silicone ring
  - spring clip
- laparotomy
  - partial/total salpingectomy

➤ Peterson 1995



# Risk of pregnancy after tubal sterilisation

➤ cumulative 10-years probability:

➤ overall: 18.5/1000

➤ clip: 36.5/1000

➤ unipolar coagulation

/pp partial salpingectomy: 7.5/1000

➤ Peterson 1995



# Risk of pregnancy after tubal sterilisation

## ↗ 18-27 years:

↗ unipolar coagulation: 3.7/1000

↗ clip: 52.1/1000

↗ bipolar: 54.3/1000

## ↗ 34-44 years:

↗ unipolar coagulation: 1.8/1000

↗ clip: 18.2/1000



# Risk of ectopic pregnancy

➤ 10 year cumulative probability/1000:	
➤ Bipolar coagulation	17.1 (9.8-24.4)
➤ Unipolar coagulation	1.8 (0.0-5.2)
➤ Silicone ring	7.3 (1.6-12.9)
➤ Spring-clip	8.5 (1.0-16.0)
➤ Interval partial salpingectomy	7.7 (0.0-15.9)
➤ Postpartum partial salpingectomy	1.5 (0.0-3.6)
➤ <u>All methods</u>	<u>7.3 (5.0-9.6)</u>

➤ Peterson 1997



# Poststerilisation regret

- 11 232 women, 18-44 years
- cumulative probability of regret after 14 years:
- Age groups:
  - 18-30 : 20.3%
  - > 30: 5.9%

➤ Hillis 1999



# Chemical sterilisation

## ➤ **Quinacrine**

- 1920s developed as anti-malarial drug
- 1970s intrauterine use in 1100 women, up to 50 000 women treated until 1992



# QUINACRINE

---

- three instillations to achieve adequate efficacy
- CNS excitations
- ? 3 deaths
- ? Carcinogenic



# Conclusions

---

## ➤ Laparoscopy:

- seems to be associated with less minor morbidity
- less postoperative discomfort
- minimal or no scarring

## ➤ Laparoscopy:

- shorter operation time

## ➤ Culdoscopy

- no obvious advantages



# Conclusions

---

- Major morbidity is rare with any method
- Failure rates low in RCTs with short follow-up (up to 2 years)
- Higher failure rates
  - longer follow-up (up to 14 years)
  - young age at sterilisation (<30 years)
  - inexperienced surgeons



# Conclusions

---

- Risk of ectopic pregnancy is increased especially after bipolar coagulation
- No evidence of menstrual abnormalities are evident after tubal sterilisation
- Higher incidence of regret is observed after sterilisation at young age (<30 years)