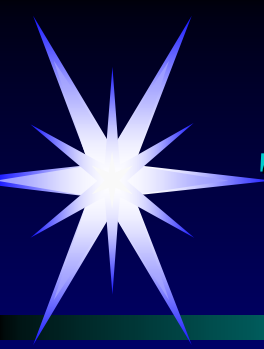




Tubal sterilisation

Dr. Regina Kulier

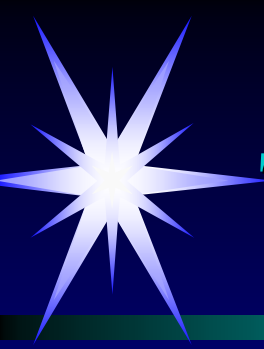
HUG



Tubal sterilisation

- The ideal female sterilisation would involve:
 - simple, easy learned, one-time procedure
 - could be done under local anaesthesia
 - technique with minimal tubal damage
 - safe procedure, high efficacy, readily accessible and personally and culturally acceptable
 - low cost

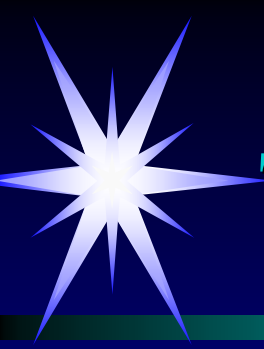
➤ WHO 1994



Tubal sterilisation

- late 1800s
- 1930s Pomeroy method
- most widely used contraceptive method in the world today
- > 100 million women sterilised

➤ WHO 1994



Tubal sterilisation

1. Minilaparotomy vs endoscopic techniques for tubal sterilisation
2. Techniques for the interruption of tubal patency



Minilaparotomy vs endoscopic techniques for tubal sterilisation

Kulier R, Boulvain M, Walker D, de
Candolle G, Campana A.

In: The Cochrane Library, Issue 2, 2000.



Minilaparotomy and endoscopic techniques

➤ Outcomes:

- major, minor morbidity
- failure of surgical/anaesthetic approach
- duration of operation
- duration of hospital stay
- complaints
- women's perception



Minilaparotomy and endoscopic techniques

➤ Six trials

➤ minilaparotomy vs laparoscopy n=1911

➤ Letchworth 1980, Meyer 1976, Sitompul 1984, Taner 1994, WHO A 1982

➤ minilaparotomy vs culdoscopy n=395

➤ Sitompul 1984, WHO B 1982

➤ laparoscopy vs culdoscopy n=295

➤ Sitompul 1984



Minilaparotomy and endoscopic techniques

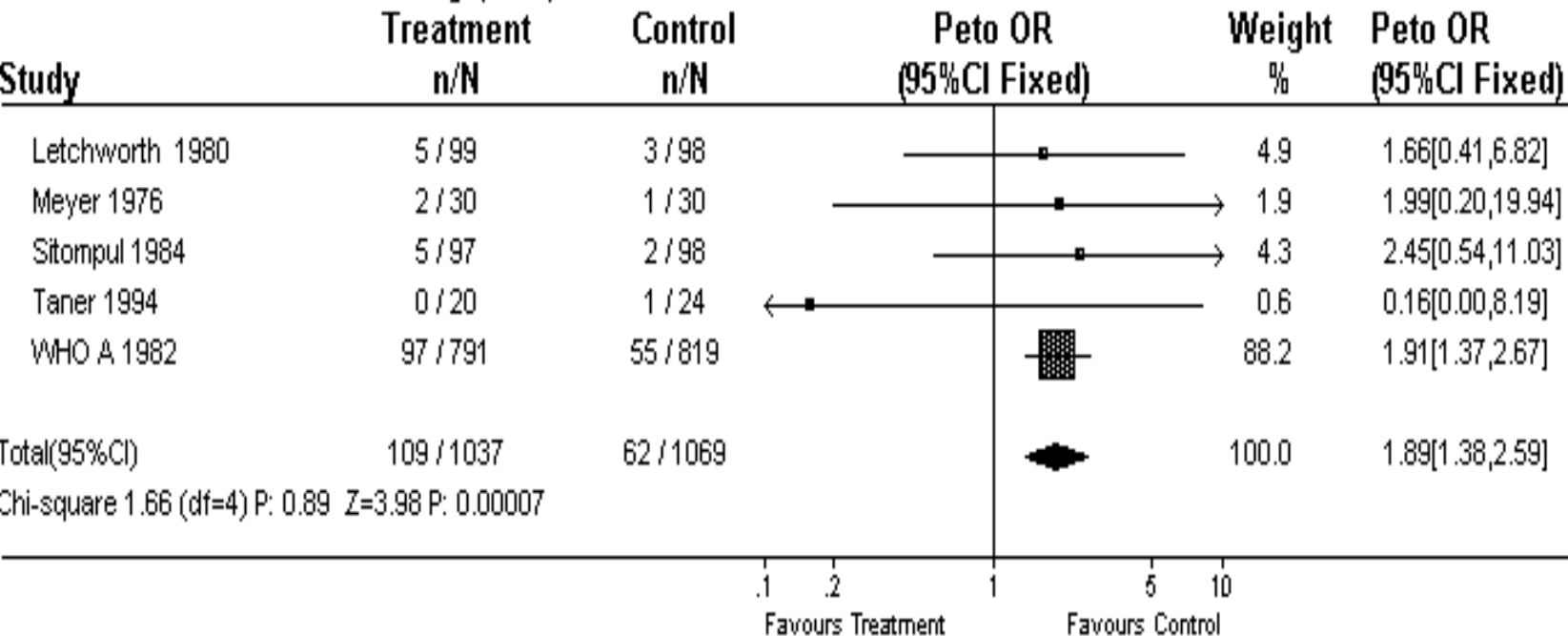
- experienced surgeons
- general, local, regional anaesthesia
- industrialised/non-industrialised centres
- follow-up maximum one year



Minilaparotomy vs laparoscopy: Minor morbidity

Comparison: 01 Minilaparotomy vs laparoscopy

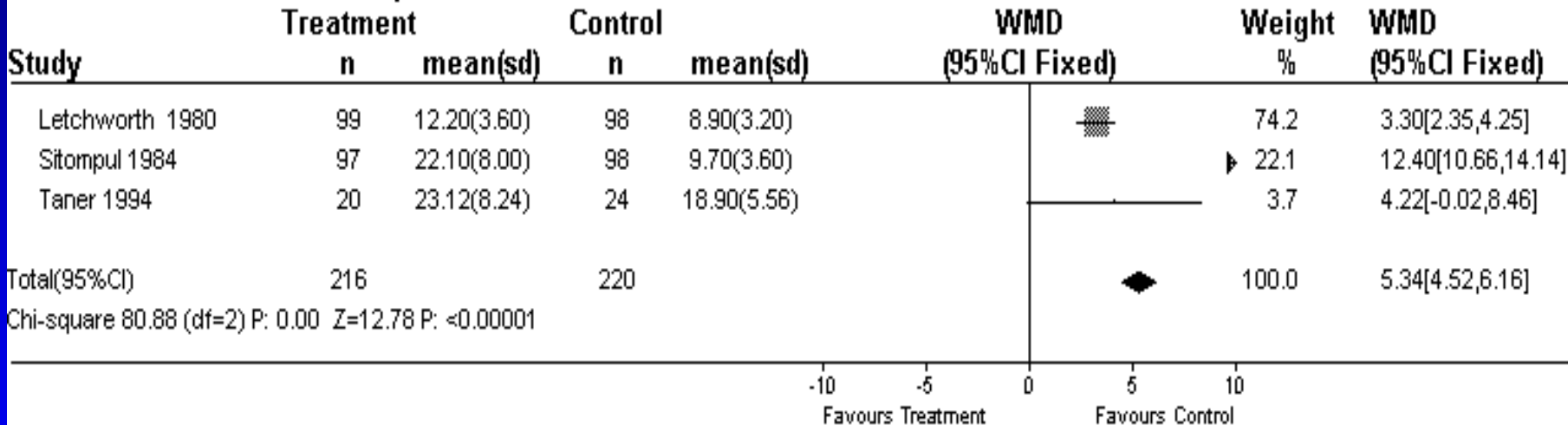
Outcome: 04 Minor morbidity (total)



Minilaparotomy vs laparoscopy: Operating time

Comparison: 01 Minilaparotomy vs laparoscopy

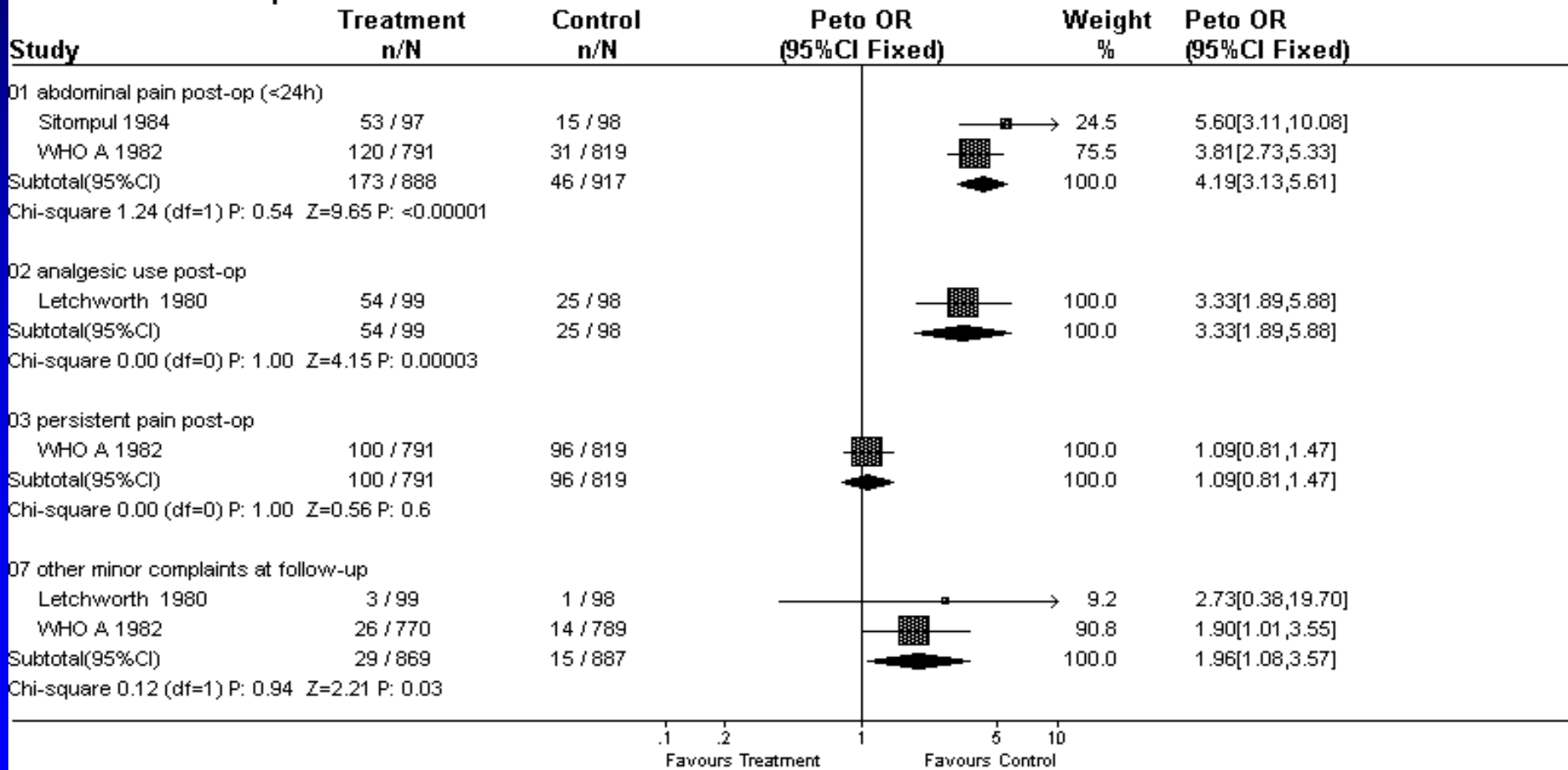
Outcome: 08 Duration of operation

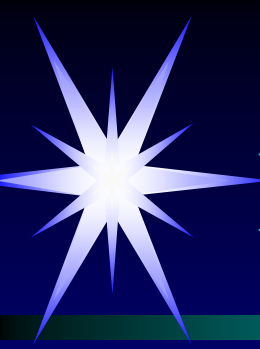


Minilaparotomy vs laparoscopy: Complaints

Comparison: 01 Minilaparotomy vs laparoscopy

Outcome: 12 Complaints





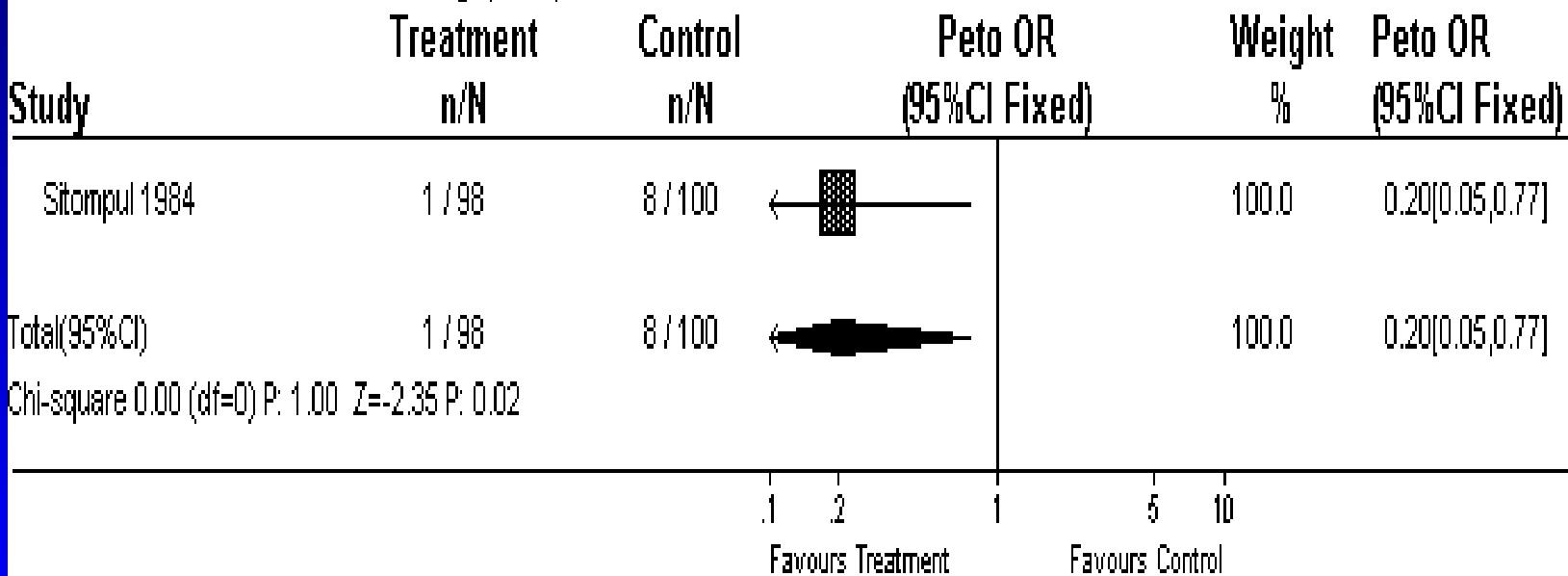
Minilaparotomy vs laparoscopy

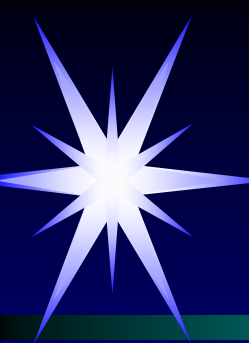
- Similar:
 - major morbidity
 - surgical, anaesthetic failure
- Limitations: follow-up (max 1 year)

Laparoscopy vs culdoscopy

Comparison: 03 Laparoscopy vs culdoscopy

Outcome: 04 Minor morbidity (total)

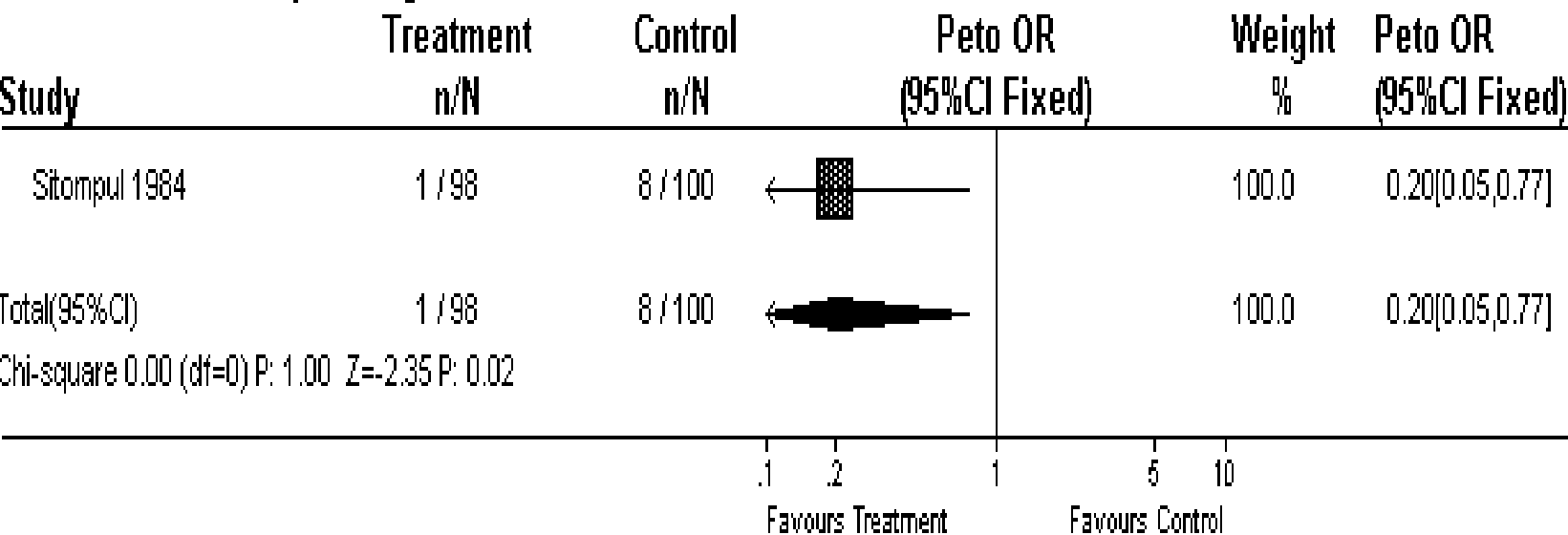


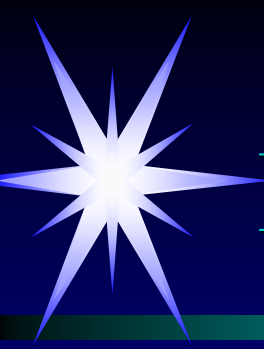


Laparoscopy vs culdoscopy

Comparison: 03 Laparoscopy vs culdoscopy

Outcome: 08 Hospital stay >24 hours

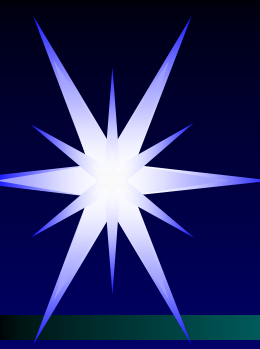




Laparoscopy: Complications

- Prospective follow-up study
- Laparoscopic procedures 25,764
- Complication 145 (5.7/1000)
- Laparotomy 84 (3.3/1000)
 - epigastric vessel, intestinal injury

Jansen 1997



Complications of laparoscopy

➤ risk factors:

➤ previous laparotomy OR 3.73 (95%CI 1.39-9.99)

➤ laparoscopic experience of the surgeon OR 3.85 (95% CI 1.69-8.75)



Sterilisation techniques

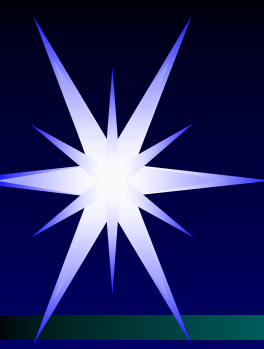
Kulier R, Nardin M, Boulvain M,
Peterson H, Campana A.

In: The Cochrane Library (in press)



Sterilisation techniques: outcomes

- failure rates
- safety
- technical failures
- changes in menstrual bleeding pattern
- complications
- operative time
- length of hospital stay



Sterilisation techniques

➤ 9 trials included

➤ ring vs springclip n=1227

➤ Aranda 1985, Argueta 1980, Stovall 1991

➤ ring vs electrocoagulation n=599

➤ Aranda 1976, Koetsawang 1978

➤ Pomeroy vs electrocoagulation n=1910

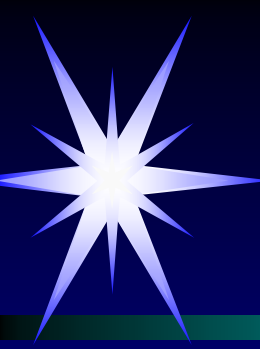
➤ Sitompul 1984, WHO 1982

➤ Pomeroy vs Filshie clip n=200

➤ Yan 1990

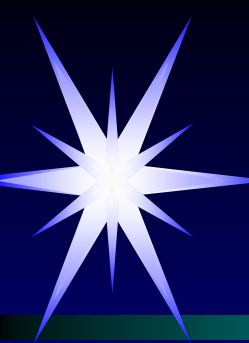
➤ Hulka vs Filshie clip n=200

➤ Toplis 1988



Sterilisation techniques

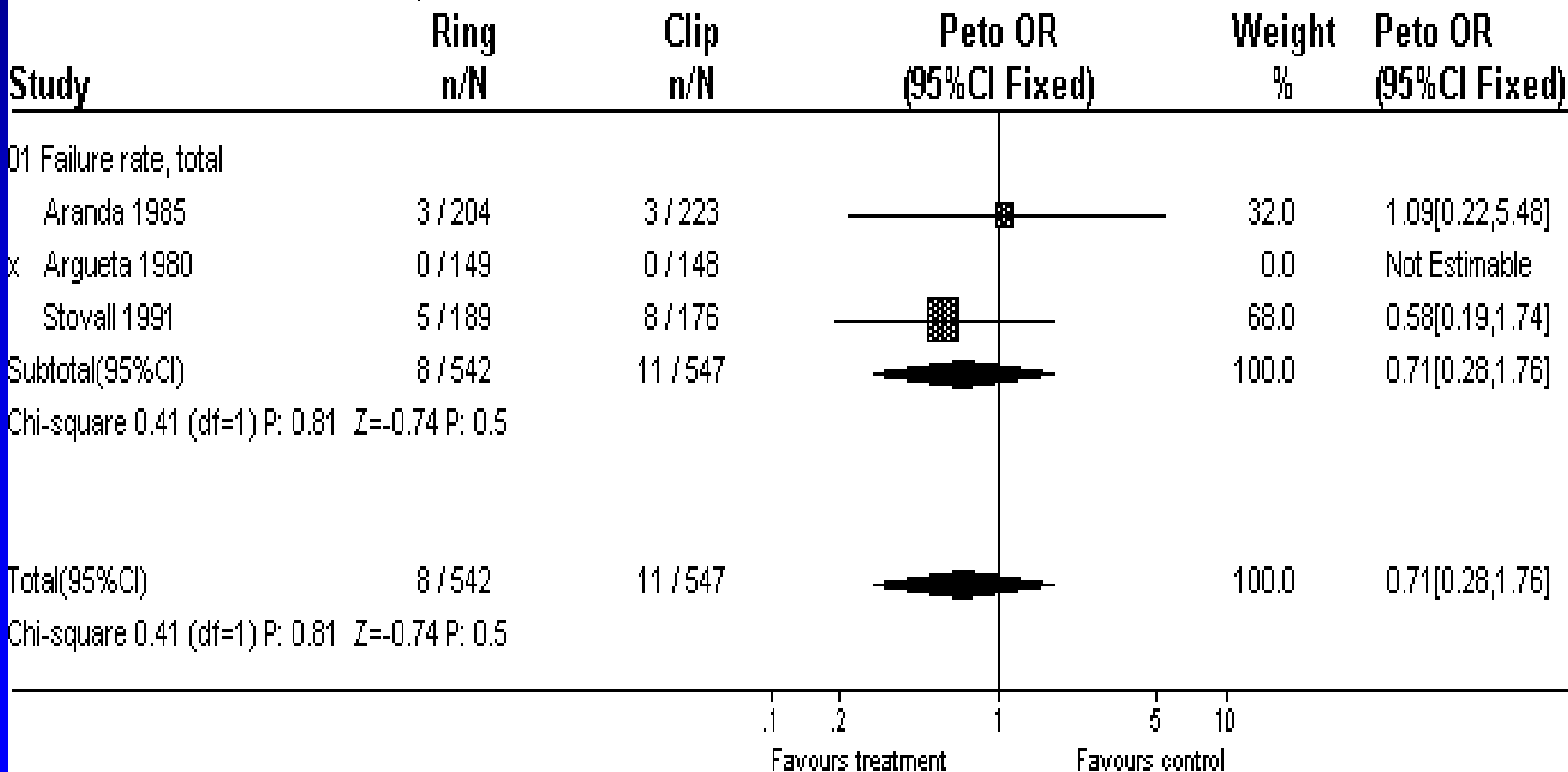
- Laparoscopy, minilaparotomy, culdoscopy
- experienced surgeons in all but 1
- mostly as interval procedures
- follow-up: 6 months to 2 years



Tubal ring vs clip: pregnancy

Comparison: 01 Tubal ring versus clip

Outcome: 08 Failure rate, total

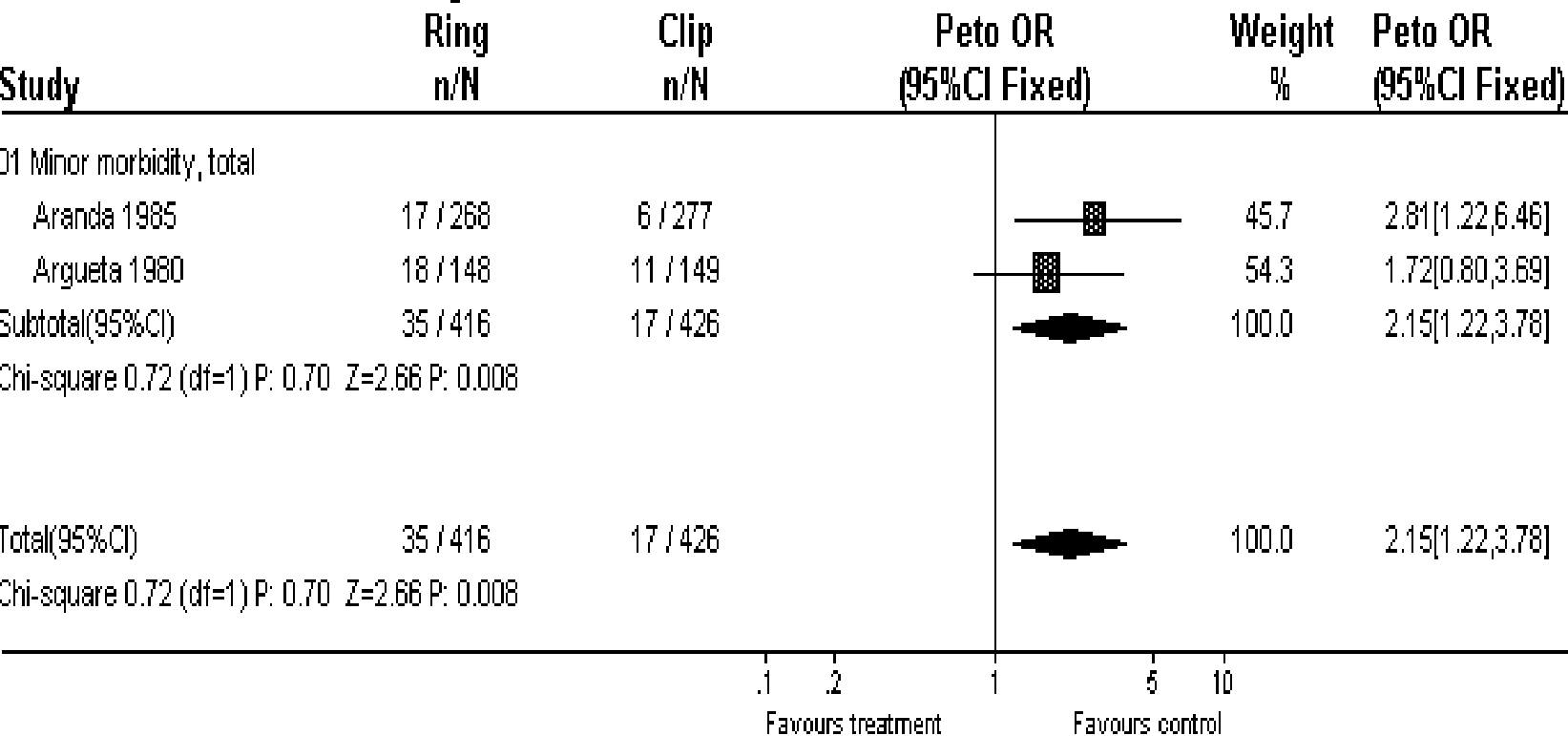


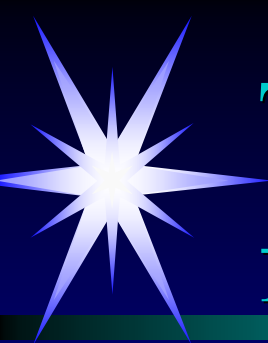


Tubal ring vs clip: minor morbidity

Comparison: 01 Tubal ring versus clip

Outcome: 04 Minor morbidity, total





Tubal ring vs clip: technical failure

Comparison: 01 Tubal ring versus clip

Outcome: 06 Technical failures

