# CONTROVERSIES 2013 EMPYEMA OF THE GALLBLADDER

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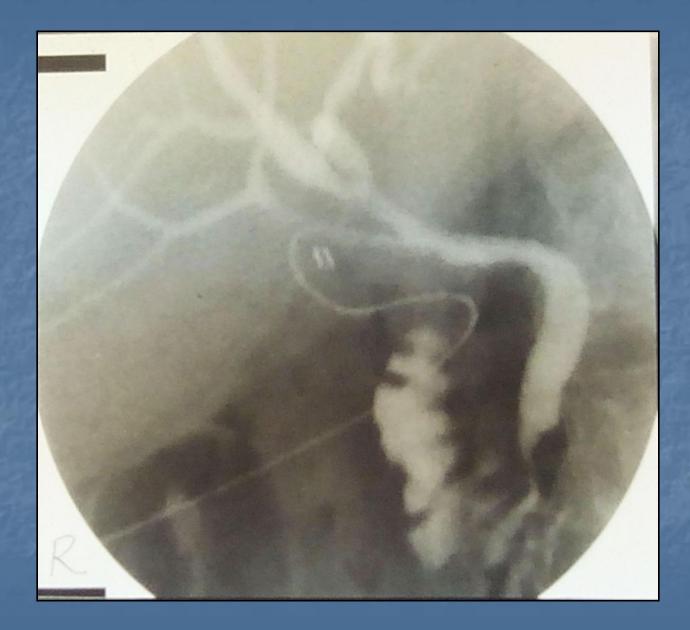




# SURGICAL TECHNIQUES 1990

### "The Difficult Gallbladder"







### "EMPYEMA"

#### LITERALLY

- Pus in an inflamed gallbladder.

IN PRACTICE -

- The most common outcome of Acute Cholecystitis not surgically treated.

# NATURAL HISTORY OF ACUTE CHOLECYSTITIS

- Empyema
- Resolution
- Mucocele
- Perforation Types I, II, III

# EMPYEMA onset 4 – 5 days after onset of acute symptoms.

 → 1980's • Delayed Elective Cholecystectomy at 6+ weeks
 • ? Cholecystomy

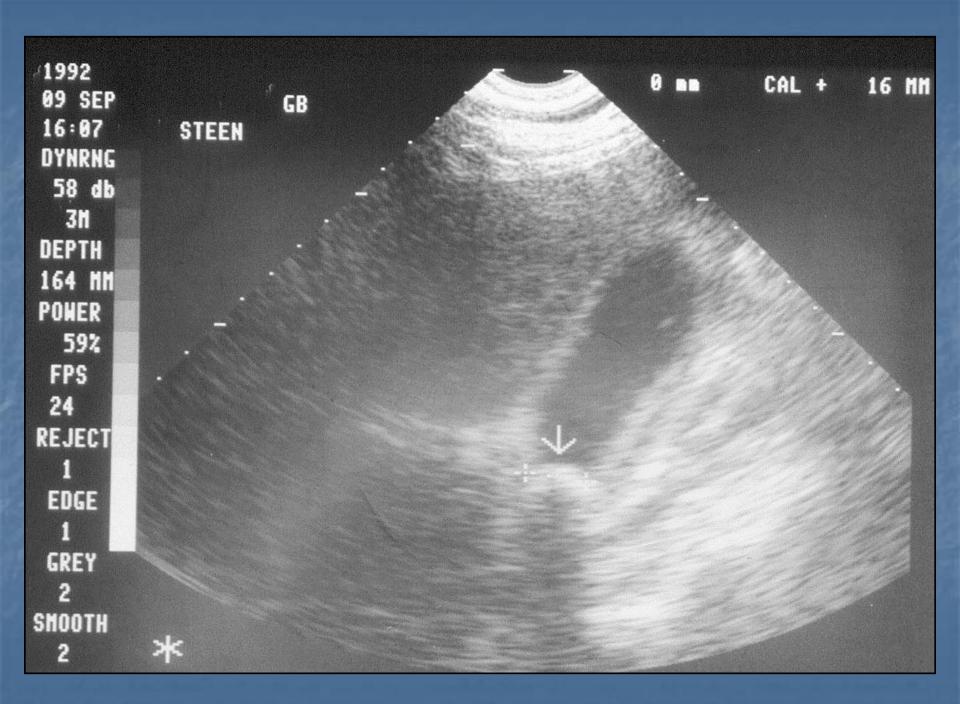
Nel, Grobler: Surgery Annual 1991

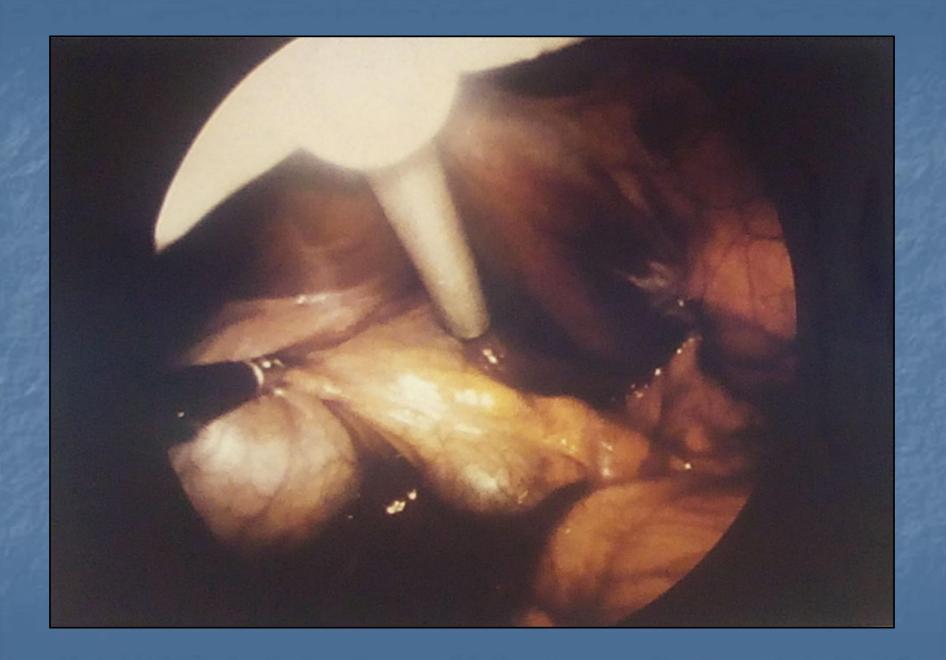
→ 1990's Acute Cholecystitis contraindicates
 - Laparoscopic Cholecystectomy

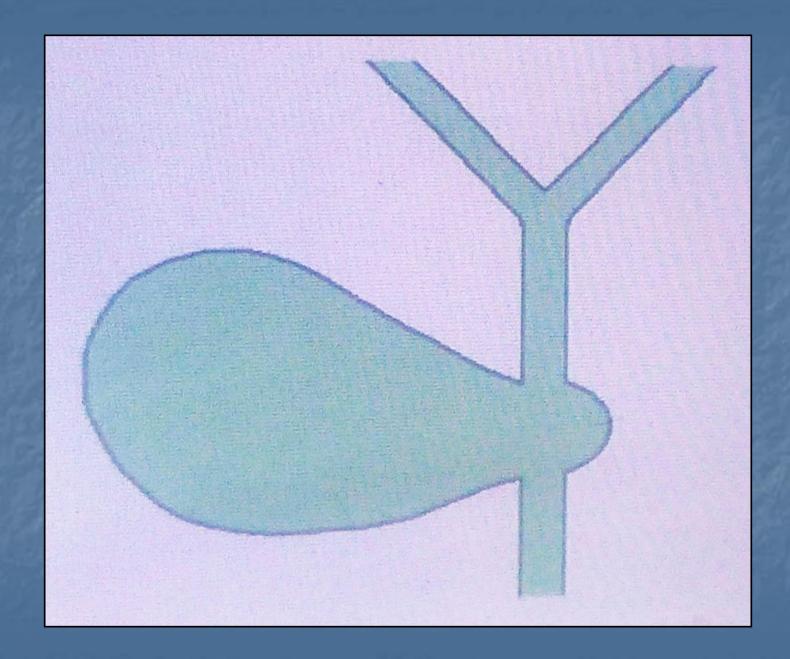
→ 2000's Early Laparoscopic Cholecystectomy
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 Johansson *et al:* British Journal of Surgery 2004
 Serralta *et al:* Surg Lap Endosc 2002

## PREVENTION BETTER THAN CURE

Late Presentation
Other delaying factors







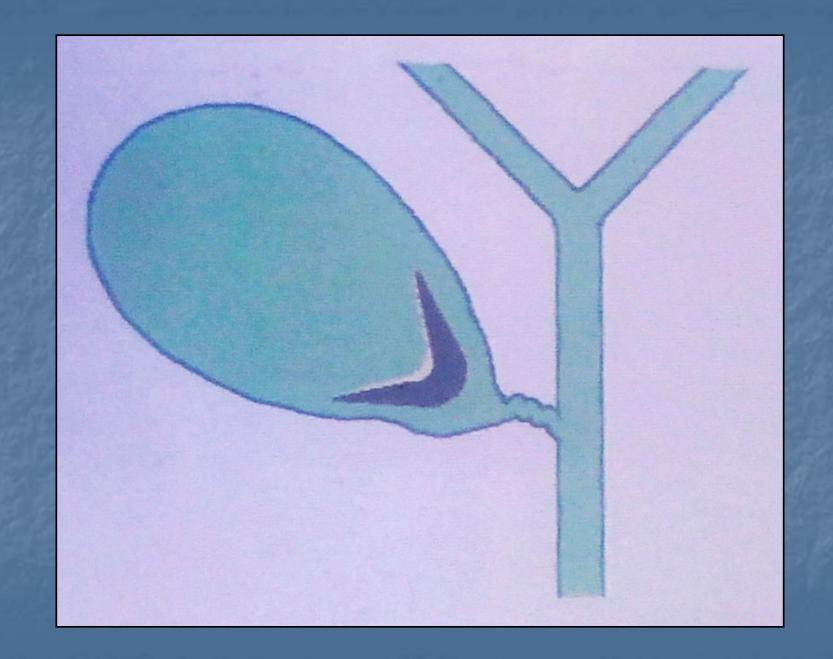
Cholecystostomy - Percutaneous

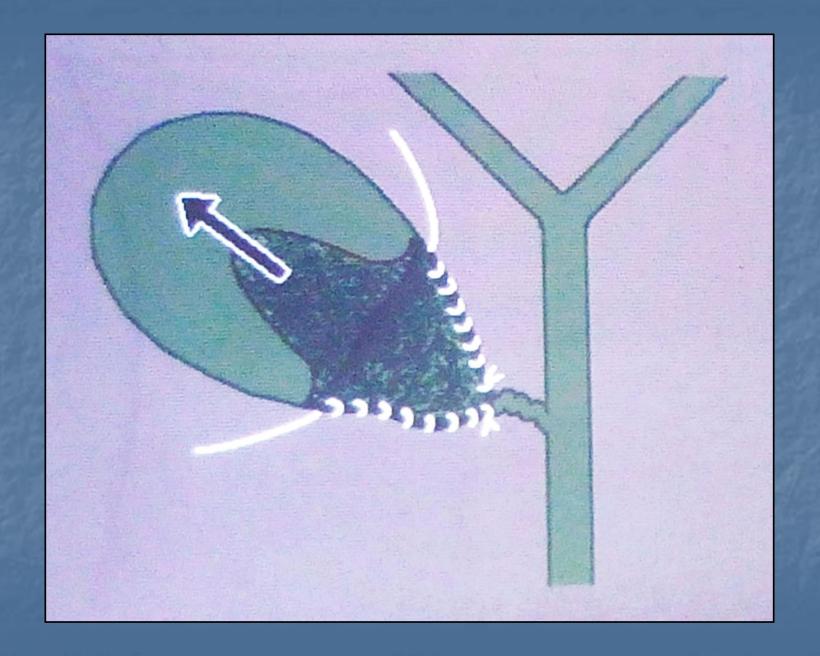
 Laparoscopic
 Open

 Cholecystectomy with no further delay

- Be patient
- Be defensive

- Low conversion threshold
- ?? Fundus first
- Cholecystostomy
- Subtotal Cholecystectomy
  - Thorek: J Phys Ther 1935
  - Bornman, Teblance: Surgery 1985





Better to leave some gallbladder behind than to remove the entire gallbladder plus a segment of bile duct...