

### 1886 Reginald Heber Fitz Describes appendicitis Calls for early surgical intervention

### From dogma to dust?

### "Complicated Appendicitis"

- A walled-off inflammatory process secondary to acute appendicitis with appendiceal perforation
- 5-10% of acute appendicitis
- Can be treated with antibiotics +/- I.R. drainage of abscess
- 90-95% success rates
- What then?

### Interval Appendectomy

- Prevents a recurrent attack of appendicitis
- Prevents "missing" a possible appendiceal neoplasm
- Can it be done safely?



### I.A. Indicated For

- Adults!
- Responded to non-operative management of complicated appendicitis.
  - With or without a palpable RLQ mass.
  - Diagnosed with imaging. Preferably by CT.

### Can it be done safely?

- Complication rates 10-23%!
  - Wound infections
  - Intra abdominal abscesses
  - Small bowel obstructions
  - Fecal fistulae
- Children and adults
- "Old" data

### Can it be done safely?

Recent publicationsAdults, CT imaging, *Laparoscopy* 

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Lugo et al, 2009: 46 pts. (44 laparoscopically+2 convert)
Mean age 43 One superficial wound infect (2%)

Furman et al, 2013: 17 pts. (11 laparoscopically+6 convert)
Avg age 41 One intra abdominal abscess (6%)

Lidar et al, 2000: 10 pts. (All laparoscopic)
Avg age 34 No complications 9 ambulatory

You et al, 2012: 15 pts. (14 laparoscopic + 1 convert)
age: "adult" One complication (?) (7%)

88 patients 3.5%
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### Prevent recurrent appendicitis?

- Obviously some.....but how many?
- What is the rate of recurrent appendicitis in <u>adults</u>?
- Do we have a real problem?

### Rate of recurrent attacks pub. Date #patients % recurrences av. age Lai, 2006 24/94 54 25.5 Tsai, 7/35 2006 20 9/51 Youseff, 2010 31 Lien, 10/68 2011 51 15 Malik, 28/213 2012 28 Hussein, 2012 5/42 31 Andersson 2007

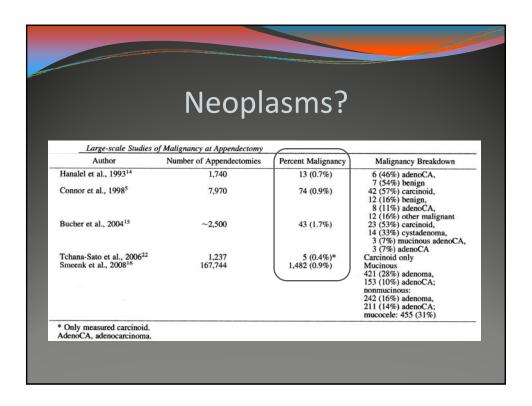
### Appendicolith?

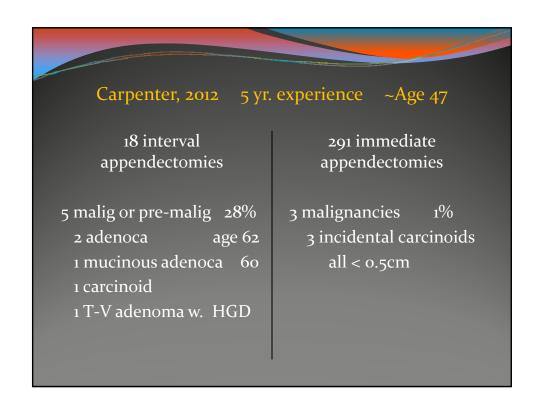
- Complications caused by retained appendicoliths from "open" appendectomy era.
- An indication for interval appendectomy?
  - Ein, 2005, (children).....72% recurrence rate

Tsai, 2006

7 adults with appendicolith5 recurred.......71%

- Not all acute appendices rupture.
- Is there something different about some adult appendices, that do rupture?





# Furman et al, 2013 ~Age 41 17 interval 359 immediate appendectomies 5 malignancies 29% 9 malignancies 2.5%

# Interval appendectomy indicated In adults Especially > age 40 Because It can be done safely And will Prevent a significant number of future illnesses And will not Miss an appendiceal neoplasm

