OPEN MESH REPAIR - UMBILICAL

• 3110 total open mesh repairs
  • 3029 primary repair
  • 81 recurrent – 88% had one previous repair

• 165 surgeons – 42% academic    38% PP    20% PP+acad.
DEMOGRAPHICS

- Mean age 53
- 78% male
- 85% Caucasian
- Mean BM 32 58% > 30 BMI
- 98% ASA 1,2,3
WOUND AND DEFECT

- 98% Clean Wound class and VHWG Grade 1 or 2
- Defect mean length 3cm, mean width 2cm
- Mesh mean length 7cm, mean width 6cm
CO-MORBIDITIES

• 56% overall
• 359 smoke within 1 year
• 401 nicotine within 1 year
• 206 Diabetes
• 37 steroids
OPERATIVE CHARACTERISTICS

• < 1 hour in 78%
• > 2 hours 208 patients
• 12% with planned concomitant procedure
  • 231 hernia   19 GB   82 plastics   4 colon   7 SB
OPERATIVE CHARACTERISTICS

• 92% with fascial closure
  • 3% with CS

• Mesh use – 100%

• 98% permanent synthetic
  • 92% sublay, 4% onlay, 3% inlay
    • 92% with suture fixation
SSI/SSO

• 157 total SSI/SSO (6%)
  • 15 hematomas  67 seroma
  • 97 SSI/SSO requiring tx (4%)
  • 58 (2%) SSI/SSO requiring procedural intervention –
    • ABX, wound opening, debridement, or percutaneous drainage

• 5 complete mesh removal
30 DAY OUTCOMES

• 25 patients (1%) re-admission
  • Pain, wound, bleeding, GI issues
• 15 patients reoperation
• 3 recurrences (<1%)
2 YEAR FOLLOW UP

- A little less than 200 patients
- 87% with no pain from abdominal wall
- 80-90% says abd wall does not interfere with regular activities
- 89% noticed no bulge at repair site