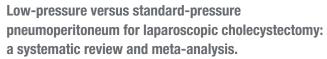




The Case for Low Impact Laparoscopy



The American Journal of Surgery, 2014, J Hua et al. Tongji University of Medicine, Shanghai, China (1263 patients from 22 articles were included in the final meta-analysis)

Benefits of Low Pressure

- Pain scores were significantly lower at 6, 12 and 24 hours post operatively (p=0.01, p=0.003, and p=0.02 respectively)
- Incidence of shoulder pain was reduced by 47% (p<0.001) (as extrapolated from presented data)
- Rate and requirement of analgesics was significantly lower in (p=0.02 and p=0.003 respectively)
- Length of Stay was significantly lower (p=0.01)

Challenges using Standard Insufflators at Low Pressure

- Operative time was significantly longer (p<0.001)
- Need to increase pressure was significant (p<0.001)



Needlescopic versus laparoscopic cholecystectomy.

ANZ Journal of Surgery, 2009, M.S. Sajid et al. Worthington Hospital, W.E. UK

(A meta-analysis, 6 randomized controlled trials with 317 patients were included in final meta-analysis)

Benefits of Needlescopic Surgery

- Postoperative pain was significantly less in the needlescopic group (p=0.0111)
- Superior cosmetic outcomes were observed in the needlescopic group (p=0.0021)

Challenges using Needlescopic Instruments

- Operative time was significantly longer (p=0.0003)
- Conversion to 5mm was significantly higher than laparoscopic cholecystectomy (p=0.0003)



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Laparoscopic Surgery at low (7mm Hg) pressure with AirSeal® System, A comparative prospective pilot study with a standard insufflation (15HG) in 60 patients Jean-Louis Benifla, et al - Université Pierre et Marie Curie, Paris, France, AAGL Congress, 2014 (unpublished)

Benefits of AirSeal® System in Intraoperative Patient Management*

- Reduced Max Peak Airway Pressure by 25% (p<0.0001)
- Reduced Max End Tidal CO2 by 10% (p<0.0001)
- Reduced Max Systolic Blood Pressure by 11% (p=0.002)
- Reduced OR Time by 13% (NS)

Benefits of AirSeal® System in Patient Recovery*

- Reduced Shoulder Pain by 62% or more at 4hrs, 8hrs and 24hrs (p=0.004)
- Reduced Narcotic Use by 70% (p=0.028)
- Ready for Same Day Discharge (patient estimated) was twice as common in the Low Impact group

A CQI Project to Improve Pain After Laparoscopic Ventral Hernia Repair*

Bruce Ramshaw**, et al - Surgical Technology International

Benefits of AirSeal® System Patient Recovery*

- PACU Time was decreased by 27%
- Total Morphine equivalents were decreased by 38%
- Length of Stay was decreased by 50%

(Reduction in PACU Time typically increases operational throughput.)



^{*}As extrapolated from presented data.

^{**}Dr. Ramshaw is a paid consultant for CONMED Corporation.