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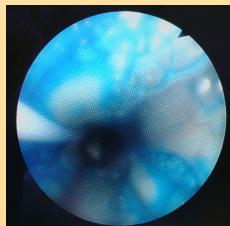
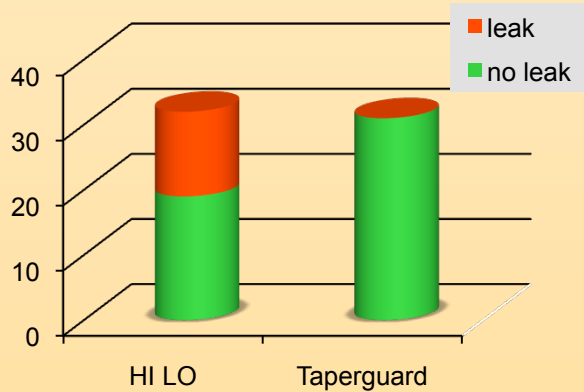
Background and Goal of Study:

VAT and VAP are frequent after bariatric surgery. Is tracheal cuff leak important?

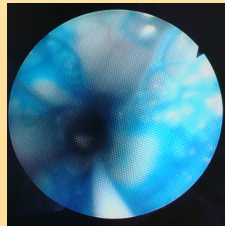
Tapered shape cuff has no plica at one level.

Is the leak of oral fluid in a tapered cuff less than in a hi-lo cuff?

Results:



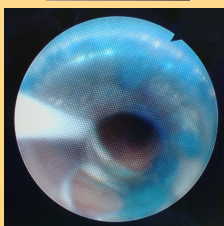
Above cuff



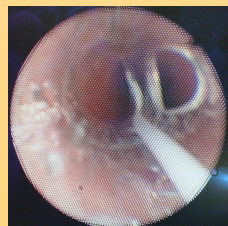
Hi-Lo



Taperguard



Below cuff



Methods:

Hi-Lo or taperguard tube

7,5 woman 8,5 man

Volume ventilated with peep > 5 cmH2O

Cuff pressure automatic control at 25 cmH2O

Methylene bleu flows back in oral cavity after leak test. (1)

Exclusion if no methylene blue above cuff

63 patients with BMI > 40 included

Bronchoscopic inspection above and below cuff at 5 and 15 min after positive above cuff



Conclusion:

Tapered cuff shape prevent silent aspiration.

5 cm Peep does not prevent silent aspiration.

References:

Dillemans et al, Standardization of the Gastric Bypass: A Single Center Study on 2606 Patients. *Obes Surg* 2009