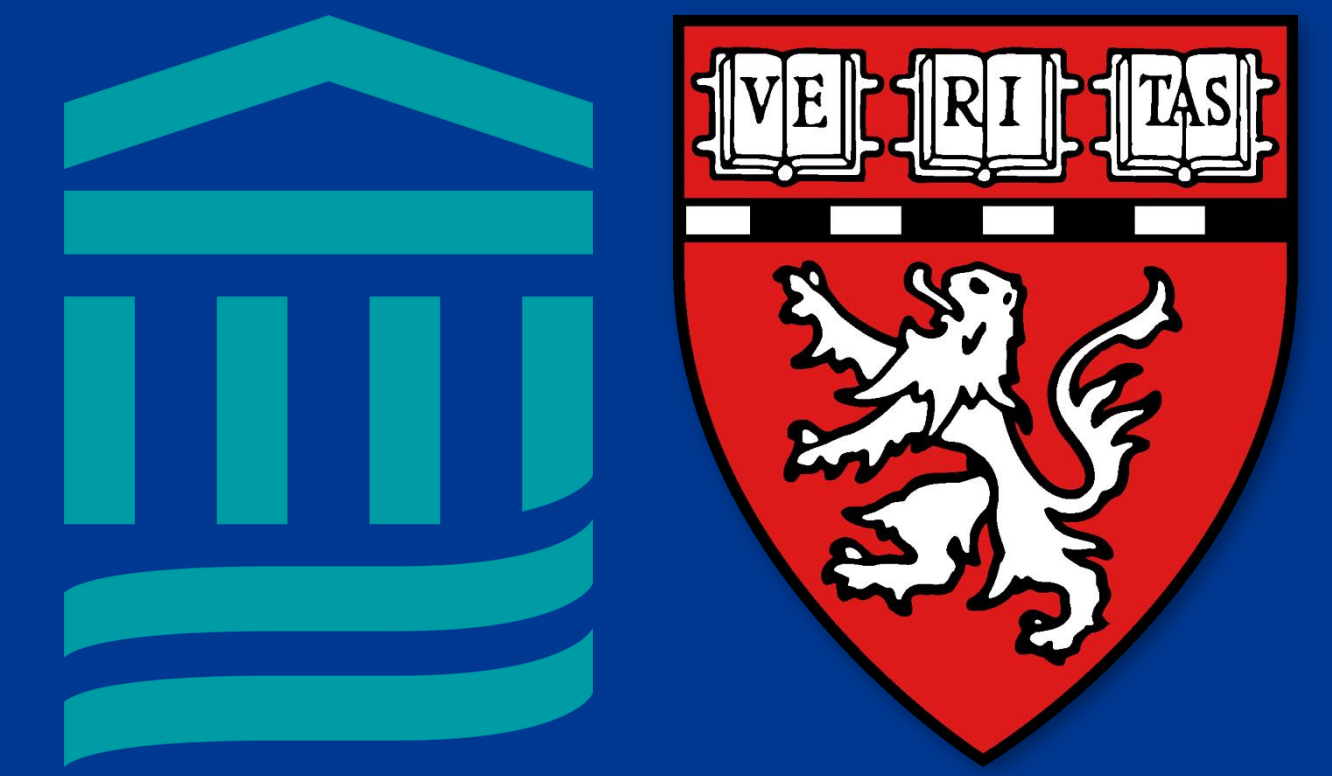
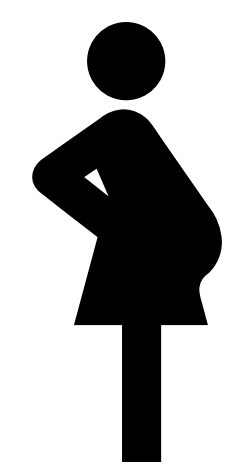


Pregnancy Risk Assessment & Anesthetic Management for Oocyte Retrieval in a Patient with Severe Airway Pathology



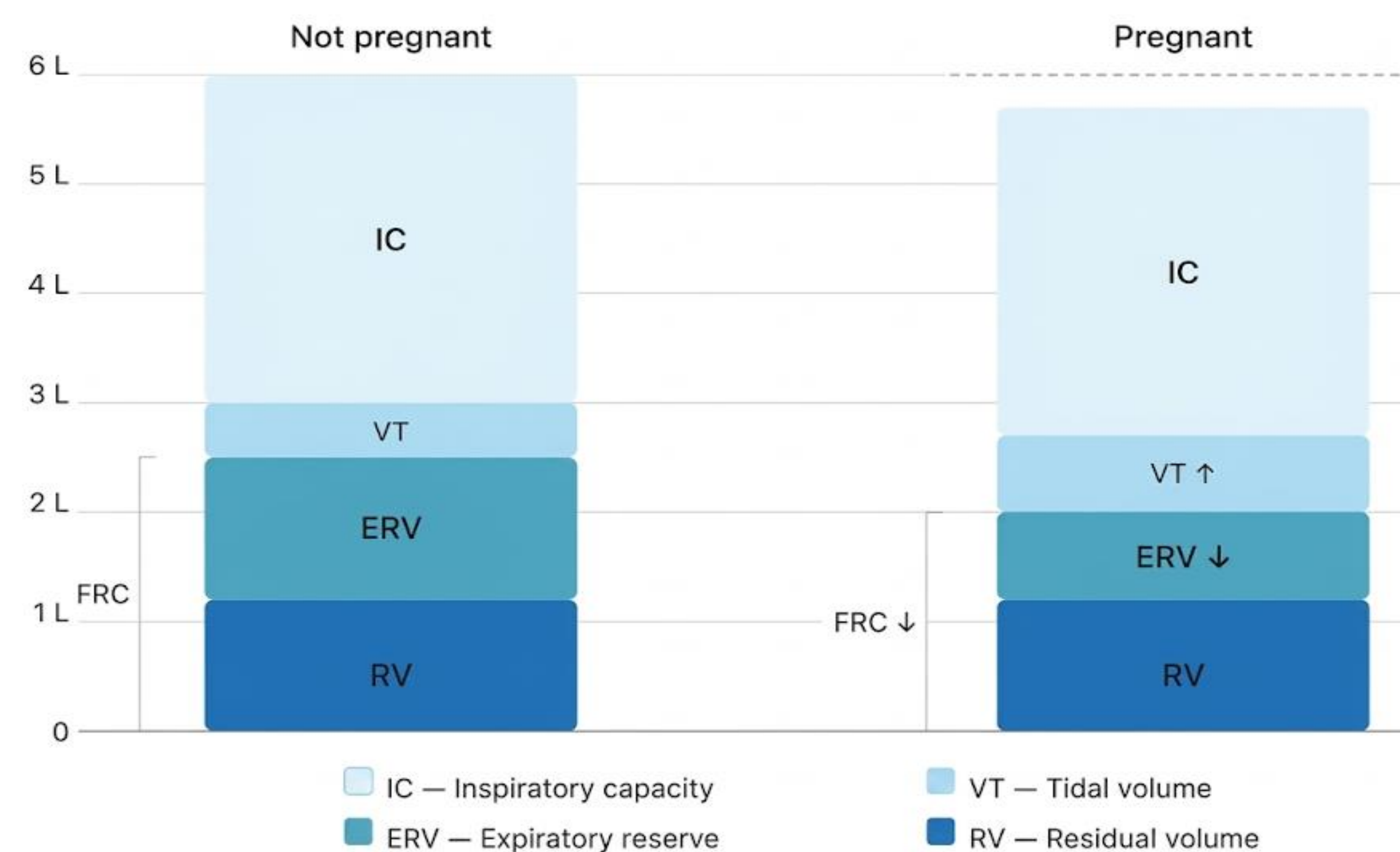
Elana Kreiger-Benson MD, Kate Frost MD, Kyle Jespersen MD, Sebastian Seifert MD
Brigham and Women's Hospital | Harvard Medical School | Boston, MA, USA

Background



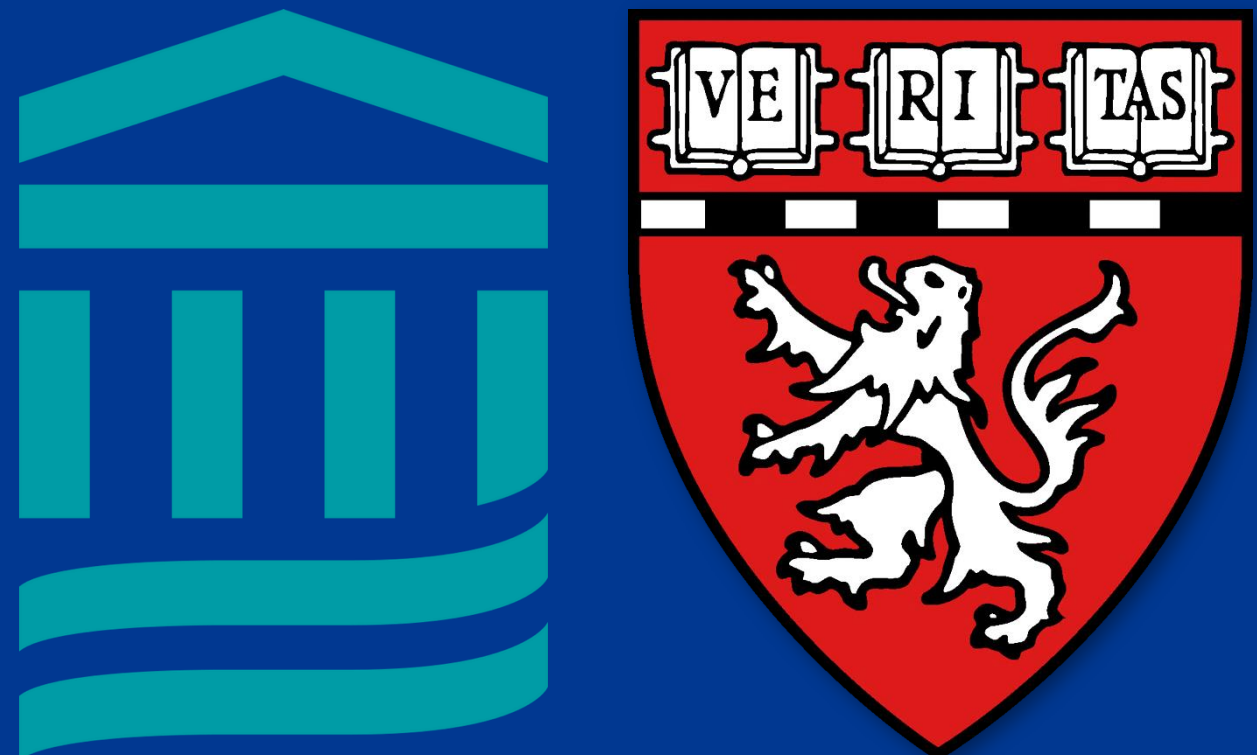
Decreased respiratory reserve
(mechanical, hormonal, and metabolic)

↓ FRC ↑ O₂ demand ↑ airway edema ↓ buffering capacity



Airway co-morbidities increase maternal-fetal risk

- ▶ Tracheal stenosis >50% (Cotton-Myer II)
- ▶ Subglottic stenosis
- ▶ FEV1<50% in patients with bronchiectasis



31F GOPO referred for infertility

HISTORY

- Repaired TEF c/b >2 decade tracheostomy
- Tracheal/bronchial stenosis w/ frequent dilations
- Severe bronchiectasis w/ frequent exacerbations
- Overnight O2 requirement
- Dyspneic in conversation, unable to lie flat

STUDIES

CT Chest Trachea 6mm, R main 4mm
Diffuse severe bronchiectasis

PFTs FEV₁ 22% predicted
FEV₁/FVC 33%

MULTIDISCIPLINARY EVALUATION

- MFM
- OB Anesthesia
- Pulmonology
- Thoracic Anesthesia
- Thoracic Surgery

⚠ **Counseled Against Pregnancy**

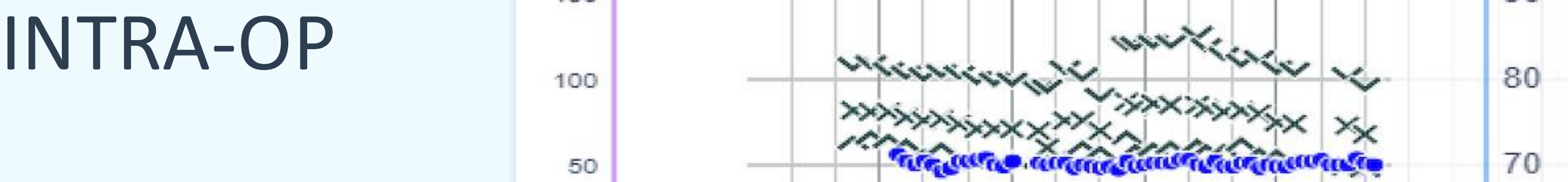
✓ **Oocyte Retrieval in Main OR**

OR COURSE

MONITORS Standard ASA monitors

AIRWAY 6L O2 face mask
HOB 45°
HFNC, jet ventilation available

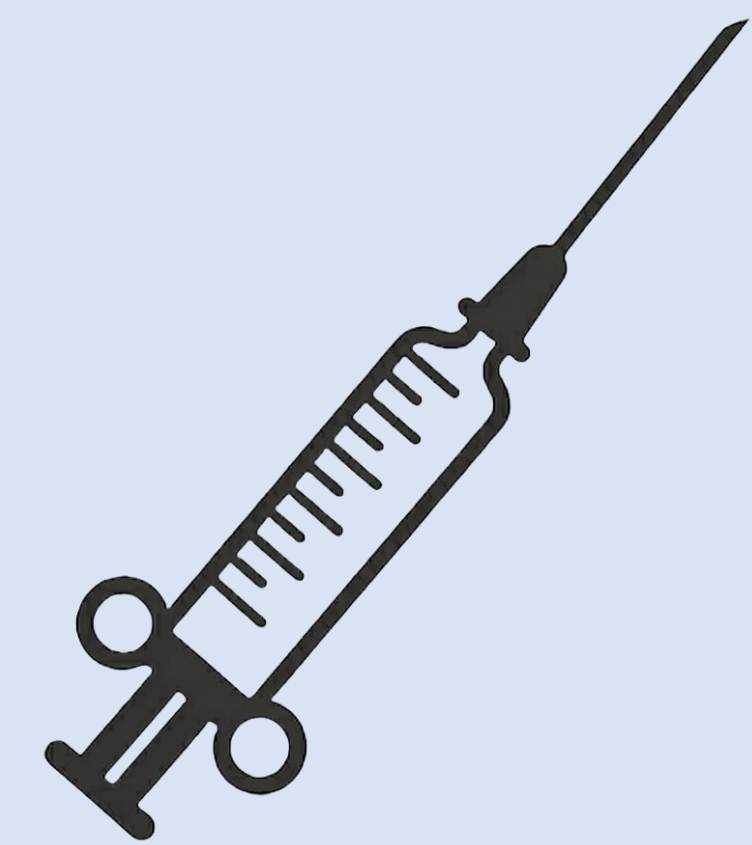
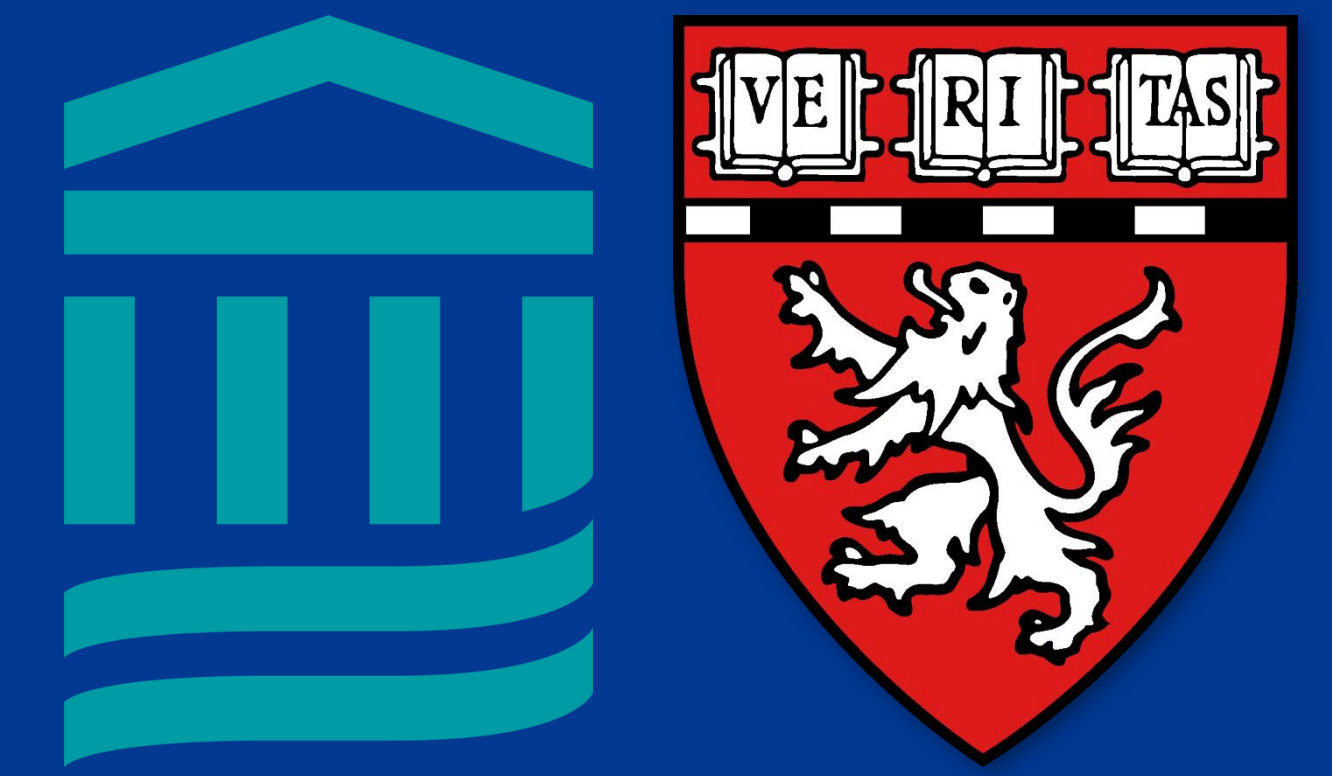
ANESTHETIC L3-4 spinal 7.5mg bupivacaine
+ 15mcg fentanyl
No PO/IV sedation/analgesia



DISPO Transferred to PACU
Discharged home



Teaching Points

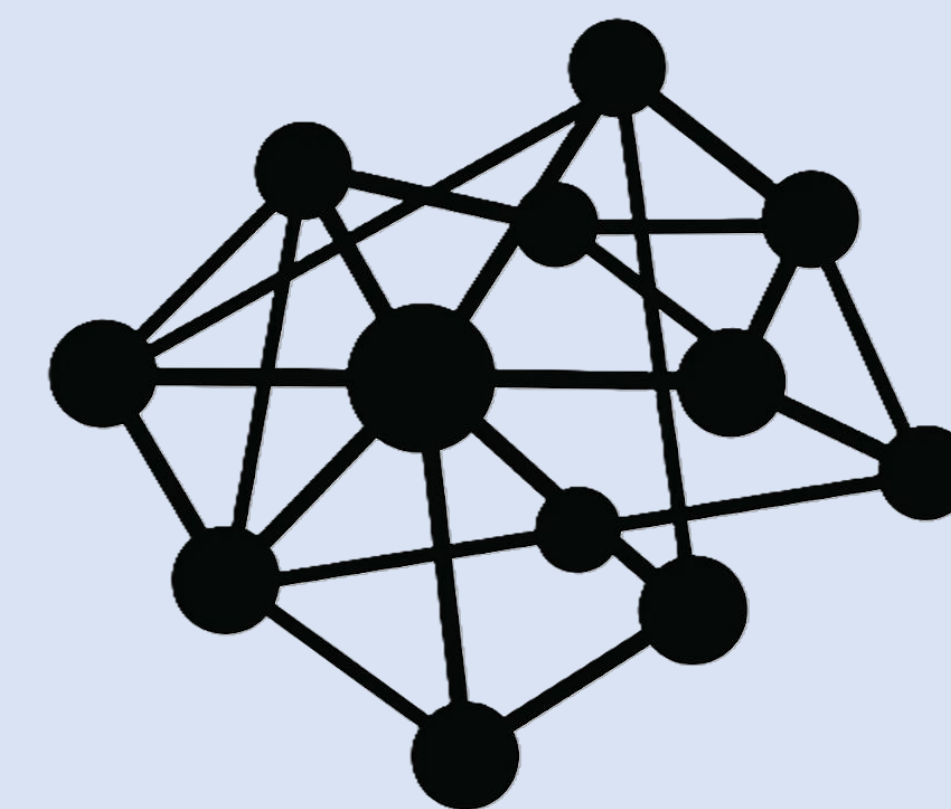


Neuraxial anesthesia for oocyte retrieval with tracheal stenosis and bronchiectasis well tolerated



“Absolute” contraindications to pregnancy rare but concurrent pathology felt to pose undue risk

More work needed to risk-stratify this population



Referral to high-risk center

Multidisciplinary collaboration

References

