

# Background

- Randomized control trials (RCT) are the gold standard for clinical evidence to generate new knowledge and inform clinical practice.
- Within pediatric otolaryngology (ENT), the recruitment to RCTs of surgical methods may be limited by caregiver motivation to participate, logistical concerns, or other barriers to enrollment.
- No previous study has investigated the willingness, motivation, and barriers of caregivers enrolling in RCTs for pediatric ENT surgeries.

# Objective

• To better understand family and caregivers' willingness, motivation and barriers to participation in pediatric ENT RCTs.

# Eligibility

• Participants were recruited from a tertiary care pediatric otolaryngology clinic at Oregon Health and Science University between November 2021 and June 2022

### **Inclusion criteria:**

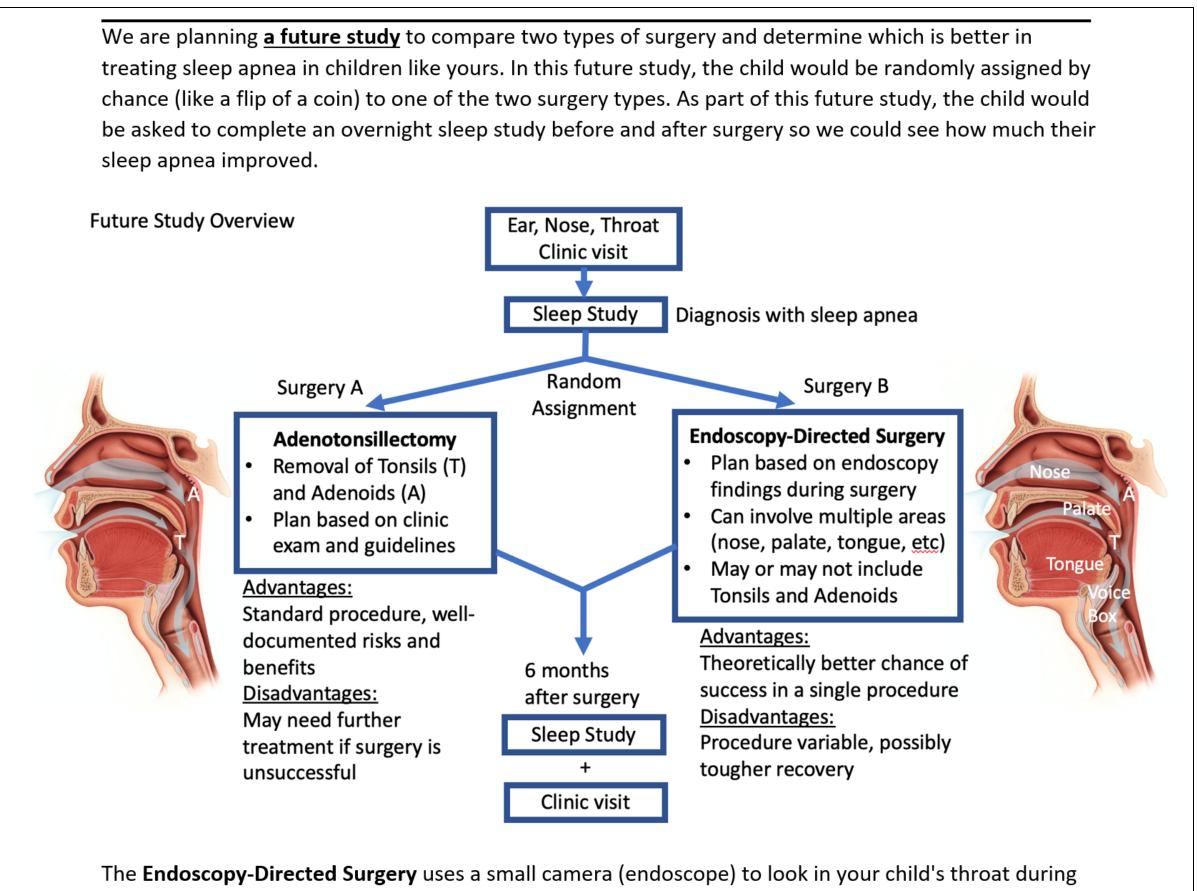
- Age 2-18 years with suspected OSA desiring surgical treatment
- Clinically small tonsils (Brodsky score 1+ or 2+) OR Down syndrome.

### **Exclusion criteria:**

- Neuromuscular disorder
- Craniofacial anomaly not associated with Down syndrome
- Genetic abnormality,
- Subglottic or tracheal stenosis
- Tracheostomy dependence.

### Contact

Maya Herzig MD MCR University of New Mexico Email: mayaherzigmd@gmail.com



# Parental Motivation to Join A Randomized Control Trial For Surgical Treatment of Obstructive Sleep Apnea in Children

Maya Herzig, MD MCR<sup>1</sup>; Derek Lam, MD MPH<sup>2</sup> <sup>1</sup>University of New Mexico, <sup>2</sup>Oregon Health & Science University

## Methods

Caregivers of children being seen in clinic visits or in the preoperative area prior to surgery were asked to complete a short survey

• Caregivers were provided a description of a hypothetical RCT where their children would be randomized to either AT or DISE-directed surgery for OSA and answered questions about willingness and motivation to enroll in a hypothetical RCT.

**Figure 1.** Information page provided to participant parents explaining the hypothetical RCT.

sedated sleep. Then your surgeon decides which areas to operate on based on what is causing obstruction. This endoscopy evaluation and the subsequent surgery would be done at the same time under the same anesthetic.

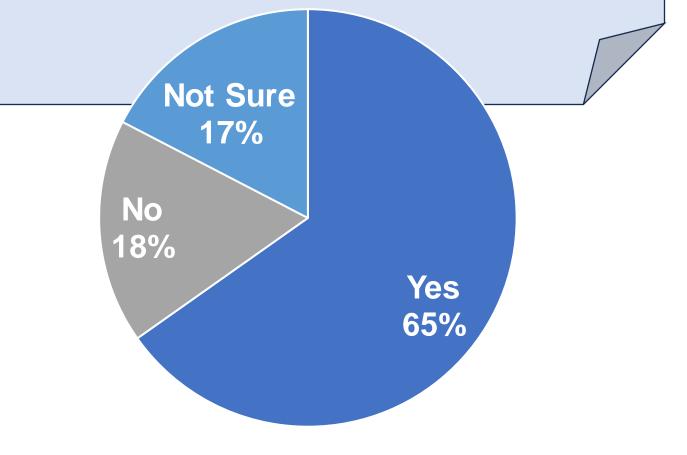
### References

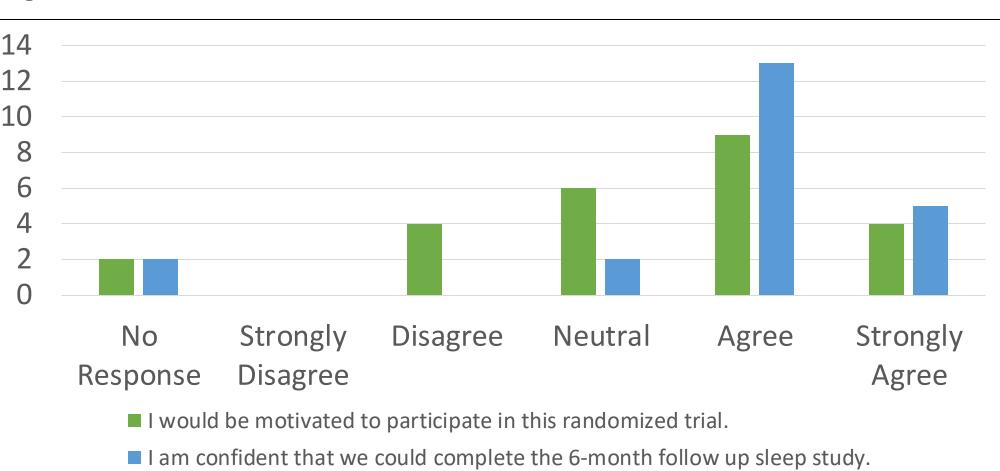
# Results

| Table 1. Participant baseline characteristics. |             |
|--|-------------|
| Demographics                                   |             |
| Total N  | 25          |
| Age (years)                                    | 8.2 ± 4.8   |
| Sex  | 16F; 9M     |
| Comorbidities                                  |             |
| Down Syndrome                                  | 3           |
| Subjective Measures                            |             |
| OSA-18   | 66.8 ± 18.4 |
| Polysomnography*                               |             |
| Total AHI                                      | 8.9 ± 6.2   |
| oAHI   | 7.7 ± 5.8   |
| LSAT   | 90 ± 4.2%   |

\* Polysomnography data only available for 20/25 patients.

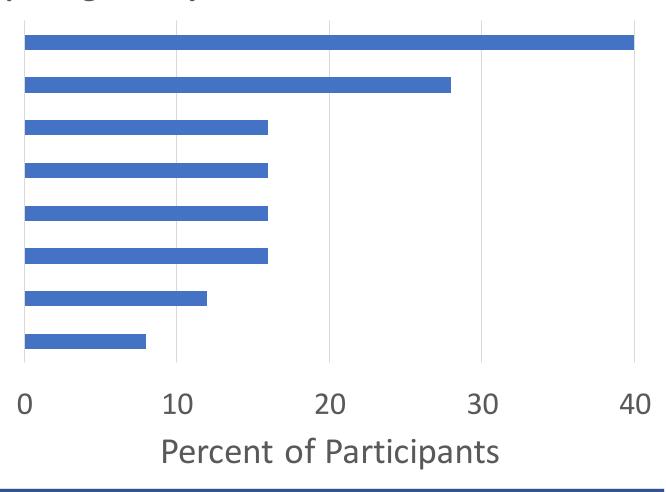
Would you be willing to participate in a study comparing outcomes of removal of tonsils and adenoids vs endoscopy-directed surgery, if the choice of surgery was determined by chance (e.g. flipping a coin)?





# Figure 3. Participant self-reported barriers to completion

Taking Time off Work Travel distance Other out-of-pocket costs Arranging Child Care Arranging Lodging **Travel time** Paying for Lodging Paying for Child Care



# Conclusions

- A majority of caregivers surveyed were willing and
- may help with RCT recruitment and retention.
- These results will help inform future study design to increase participation in pediatric ENT RCTs.

• Amin MD, Bundogji NK, Zamora SM, Magit AE. A survey of adult preferences regarding recruitment for pediatric research. International Journal of Pediatric Otorhinolaryngology. 2020/08// 2020;135:110108. doi:10.1016/j.ijporl.2020.110108 • Karlson CW, Rapoff MA. Attrition in Randomized Controlled Trials for Pediatric Chronic Conditions. Journal of Pediatric Psychology. 2009;34(7):782-793. doi:10.1093/jpepsy/jsn122 • St-Louis E, Oosenbrug M, Landry T, Baird R. Enrollment and reporting practices in pediatric general surgical randomized clinical trials: A systematic review and observational analysis. Journal of Pediatric Surgery. 2018;53(5):879-884. doi:10.1016/j.jpedsurg.2018.02.009 • Parker K, Cottrell E, Stork L, Lindemulder S. Parental decision making regarding consent to randomization on Children's Oncology Group AALL0932. Pediatric Blood & Cancer. 2021;68(4)doi:10.1002/pbc.28907

Figure 2. Participant self-reported motivation and confidence.

What challenges do you think might prevent your family from completing a study like this?

motivated to participate in an RCT comparing AT versus DISE-directed surgery for treatment of pediatric OSA.

Understanding motivating and limiting factors to enrollment