

BACKGROUND

- Endoscopic ultrasound (EUS) is commonly used for a wide range of diagnostic and therapeutic purposes in the adult population
- The use of EUS-guided therapy in the pediatric population is increasing.
- Scarce data exists for the safety and efficacy of the use of EUS in the pediatric population

OBJECTIVE

- Describe the safety and efficacy profiles of EUS in pediatric patients across a spectrum of EUS procedures

METHODS

- Retrospective multi-center study of pediatric patients (0-18 years) who underwent EUS between January 2011 and March 2022
- **Data collected:** demographics (Age, Sex, weight), procedural details and adverse event (AE)
- **Outcomes:** Diagnostic success, therapeutic success and safety profile

RESULTS

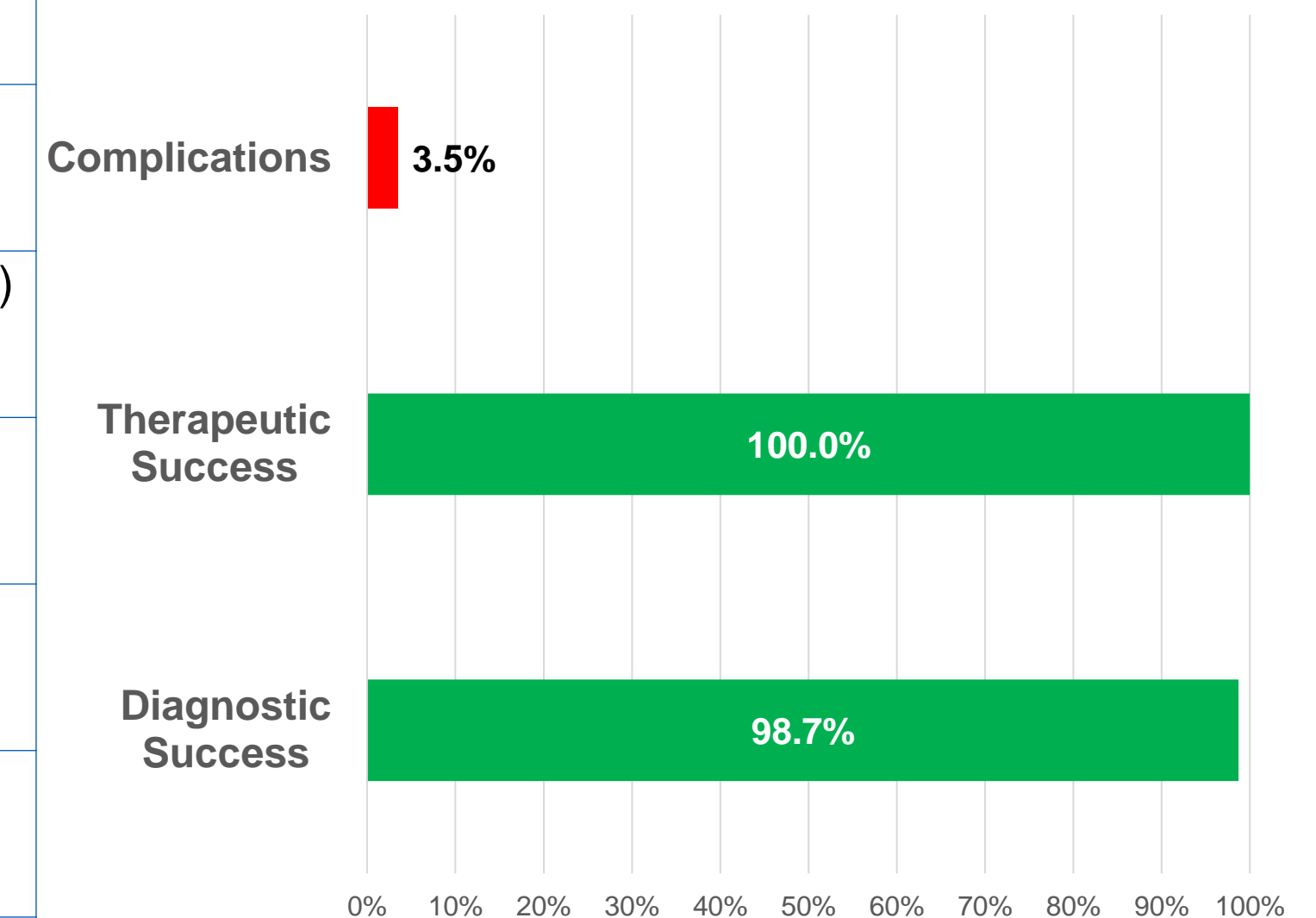
- 61 pediatric patients between the age of 0 and 18 years underwent 77 EUS procedures
- Demographics:
 - Sex: 35 (56.5%) females
 - Mean age 16.2 ± 4.2 years
 - Median weight 70.2 kg (49.7-91.2)
- Indications for EUS procedure (table 1)
- Anesthesia Type
 - Monitored anesthesia care (MAC): 48 (62.3%)
 - General anesthesia: 29 (37.7%)
- Median Procedure time(N=59): 35 (18.0-49.0)
- Diagnostic success: 76 (98.7%)
- Therapeutic success (n=5): 5 (100%)
- Complications
 - EUS-related: 2 (2.6%)
 - Anesthesia related: 0 (0%)

Table 1	
INDICATIONS	N = 77 (%)
Diagnostic	
<i>GI lumen Evaluation</i>	9 (11.7)
<i>GI lumen Evaluation with FNB/A</i>	5 (6.5)
<i>Pancreaticobiliary tree evaluation</i>	37 (48.1)
<i>Pancreaticobiliary tree evaluation with FNB/A</i>	6 (7.8)
<i>Surveillance for tumor syndrome</i>	7 (9.1)
<i>Suspected LN or mass</i>	8 (10.4)
Therapeutic	
<i>Celiac Plexus Block</i>	1 (1.3)
<i>Cystgastrostomy</i>	4 (5.2)

CONCLUSION

- Use of EUS in pediatrics has been shown to be safe and effective in a wide range of diagnostic and therapeutic intents

SAFETY AND EFFICACY OUTCOMES



@karl_akiki

Akiki.Karl@mayo.edu