

Comparative Analysis of a Conservative Observational Approach vs. Surgical Intervention for Pediatric Post-Tonsillectomy Hemorrhage

Joshua Verhagen, BS¹; Samuel Floren, MD²; Daniel Traverzo, BS¹; Tony Kille, MD²

*¹University of Wisconsin School of Medicine and Public Health, ²University of
Wisconsin Division of Otolaryngology—Head and Neck Surgery*



Disclosures

- Nothing to disclose

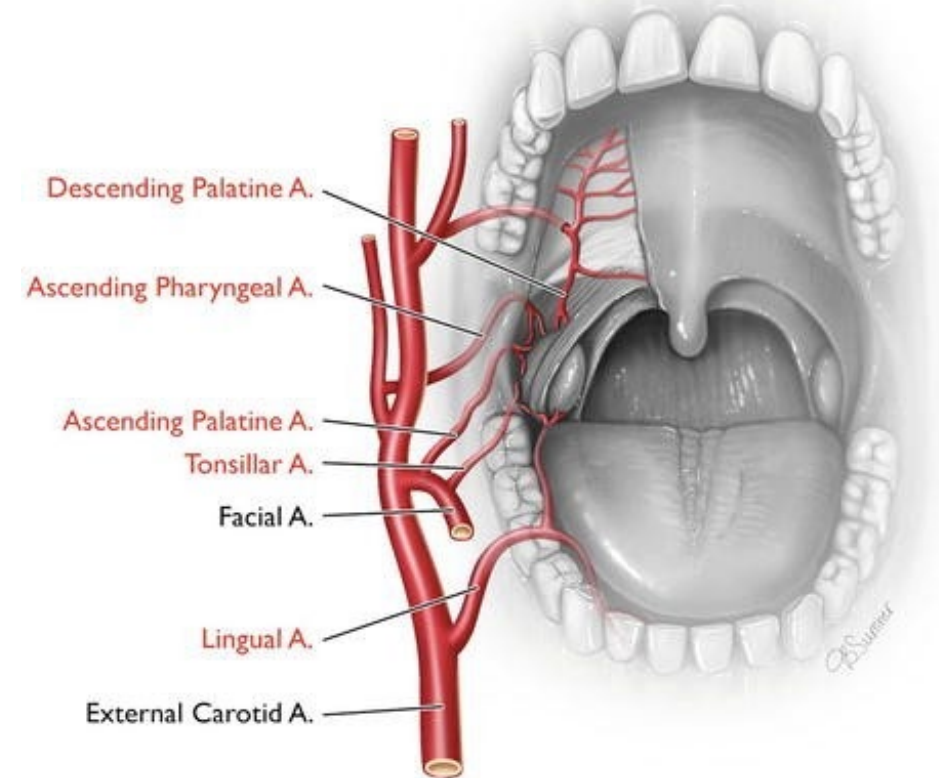
Summary

- What is PTH?
- Patient management
- Outcomes
- Future steps



Background

- Tonsillectomy is a frequently performed operation
- PTH is a bad complication



Castagnini, L.A., Goyal, M., Ongkasuwan, J. (2016). Tonsillitis and Peritonsillar Abscess. In: Valdez, T., Vallejo, J. (eds) Infectious Diseases in Pediatric Otolaryngology. Springer, Cham. https://doi.org/10.1007/978-3-319-21744-4_1



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Background

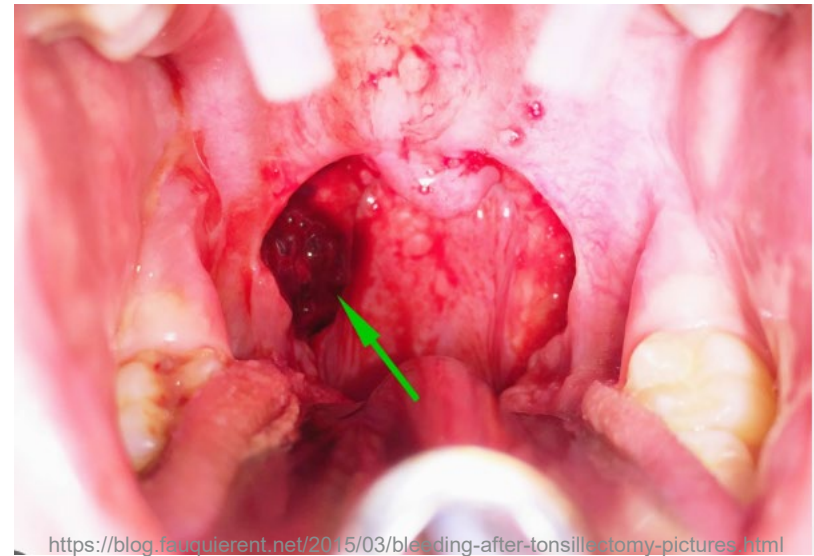
- Surveys of otolaryngologist show discrepancies in patient management



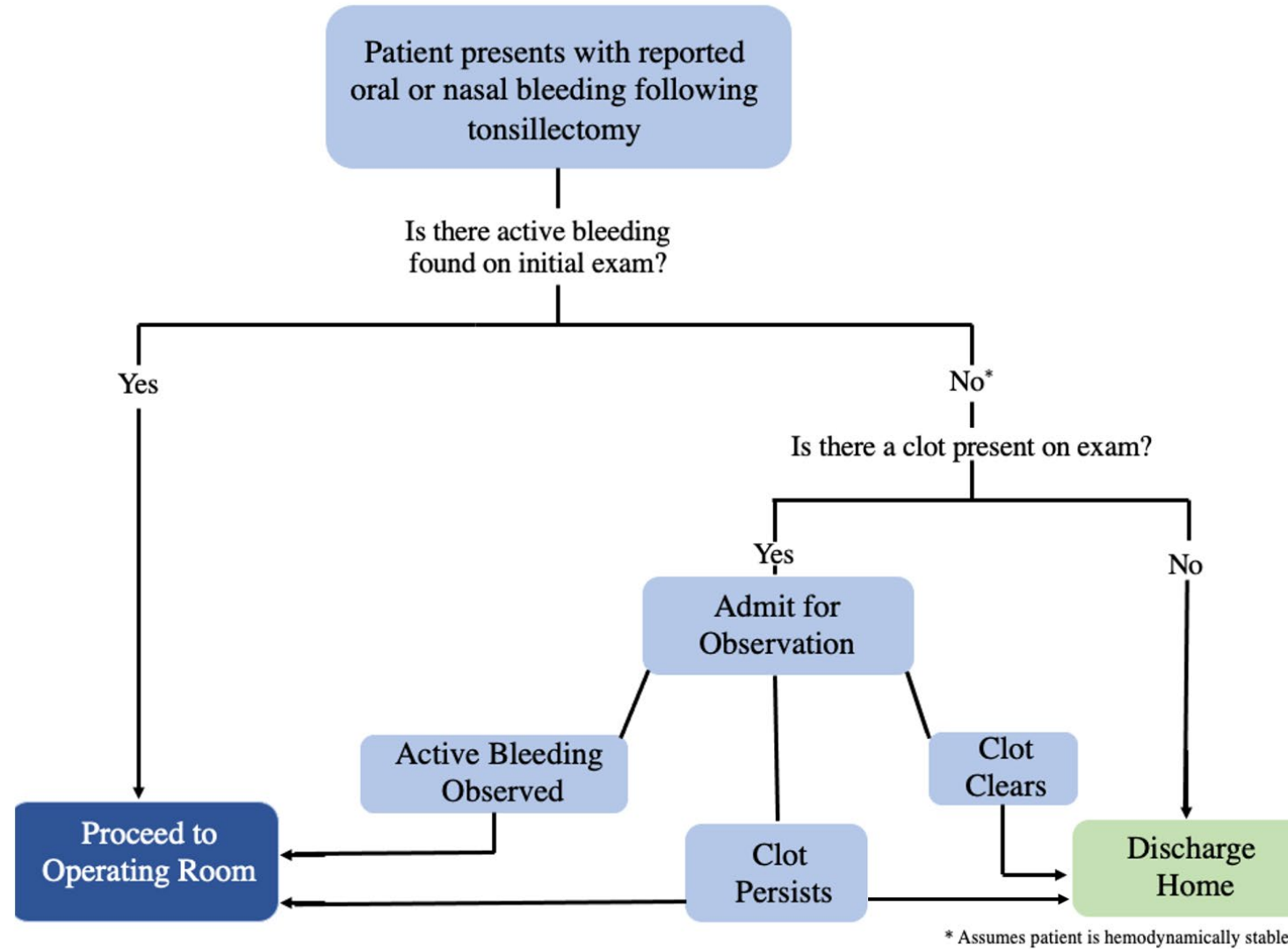
- Trends in the management of secondary post-tonsillectomy hemorrhage in children. Clark CM, Schubart JR, Carr MM. 2018. Int J Pediatr Otorhinolaryngol.
- Practice patterns in the management of post-tonsillectomy hemorrhage: An American Society of Pediatric Otolaryngology survey. El Rassi E, de Alarcon A, Lam D. 2017. Int J Pediatr Otorhinolaryngol.

Background

- The PTH management protocol at our institution has shifted
- More conservative approach
- Observation for patients with a clot



Background



Objective

- To evaluate a conservative protocol for managing PTH in pediatric patients by comparing outcomes before (2013-2016) and after (2019-2022) its gradual implementation at our institution

Methods-Data Collection

- A retrospective cohort study
- 3-year time frames
- Age <18
- Presented to ED post-op day 1-15
- Pre-Protocol (n=86)
- Post-Protocol (n=134)

Methods-Analysis

- Primary outcomes:
 - Number of ED visits
 - Number of OR visits
- Secondary outcomes:
 - Length of stay

Results

Patient Outcome	Pre-Protocol	Post-Protocol	p-value
Total Tonsillectomies Performed	2229	2277	---
Patients with ED visit for PTH, n [%]	86 [3.86%]	134 [5.88%]	p=0.0018
Clot present at any ED visit, n [%]	32 [37.21%]	54 [40.30%]	p=0.6732

Results

Patient Outcome	Pre-Protocol	Post-Protocol	p-value
Went to the OR, n [%]	47 [54.65%]	36 [26.87%]	p<0.0001

Results

Patient Outcome	Pre-Protocol	Post-Protocol	p-value
Clot patients who went to the OR, n [%]	29 [90.63%]	14 [25.93%]	p<0.0001

Results

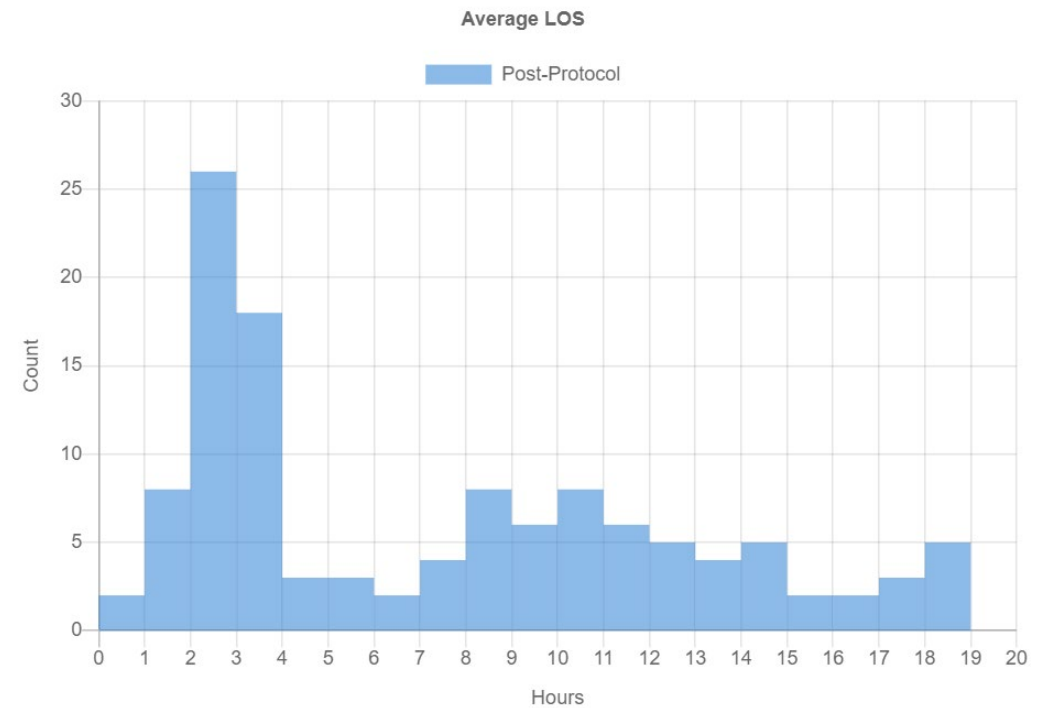
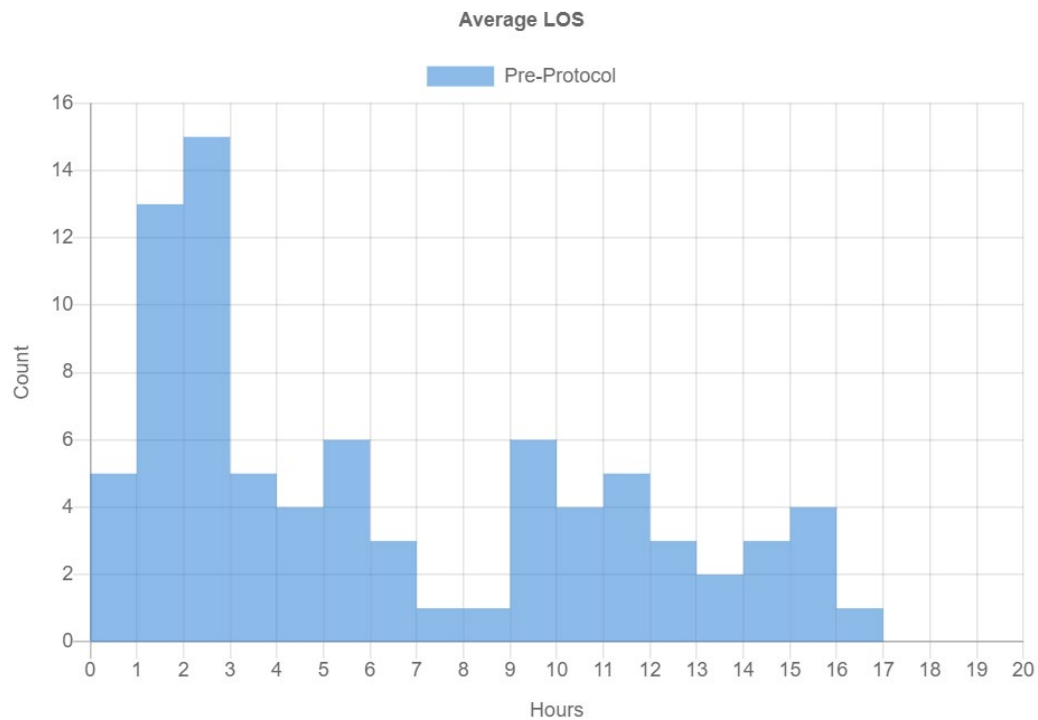
Patient Outcome	Pre-Protocol	Post-Protocol	p-value
Had >1 ED visit, n [%]	11 [12.79%]	10 [7.49%]	p=0.2403

Results

Patient Outcome	Pre-Protocol	Post-Protocol	p-value
Clot patients who had >1 ED visit, n [%]	5 [15.63%]	3 [5.56%]	p=0.1418

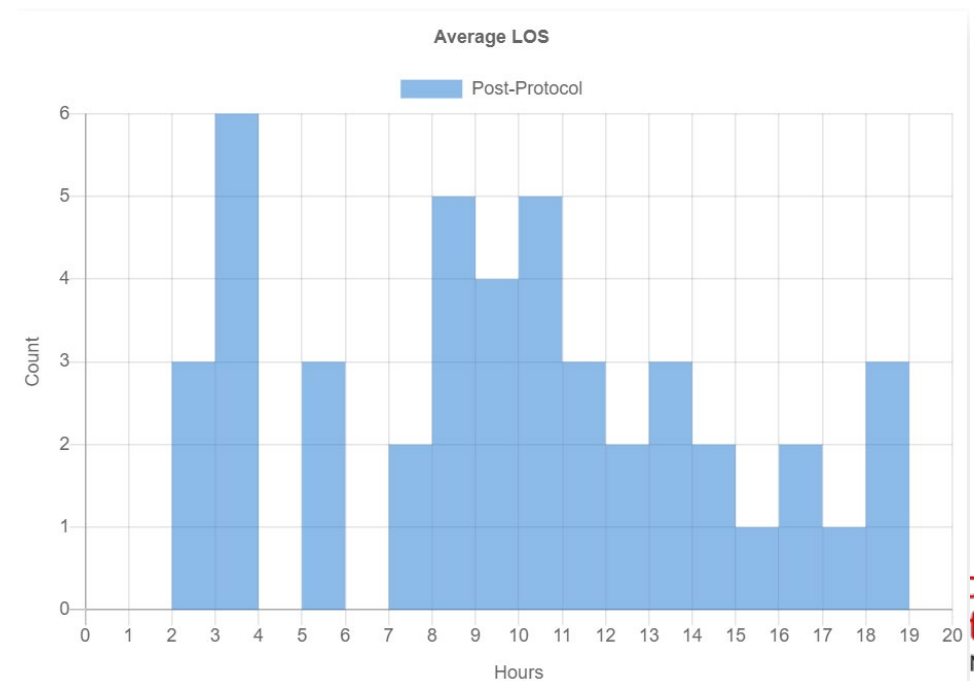
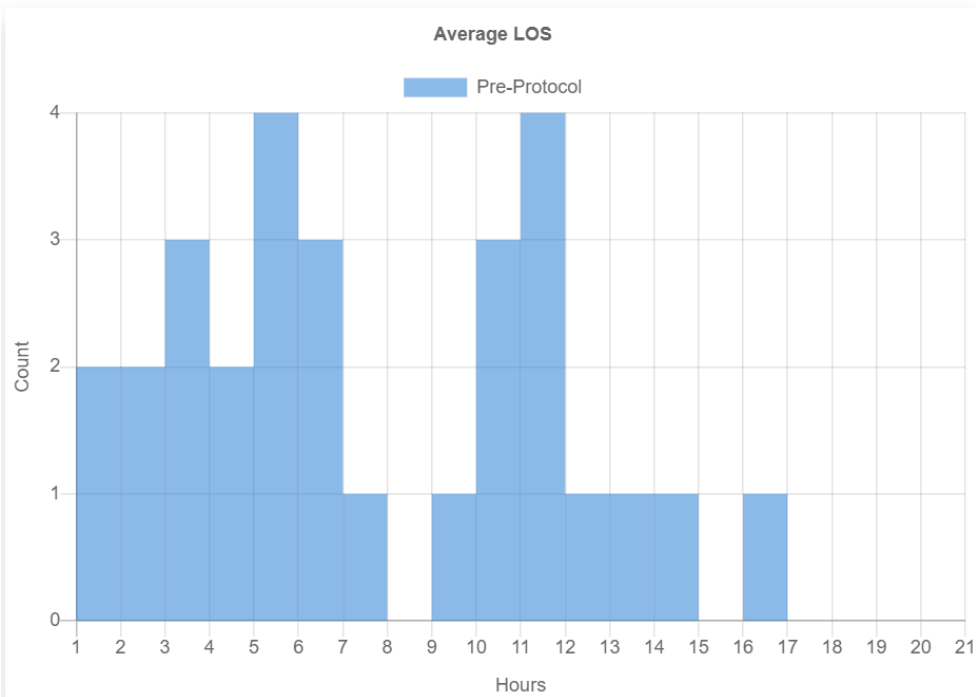
Results

	Pre-Protocol	Post-Protocol	p-value
Average total length of stay, hours [SD]	7.38 [6.49]	11.58 [21.58]	p=0.0812



Results

	Pre-Protocol	Post-Protocol	p-value
Average total length of stay for clot patients, hours [SD]	9.25 [6.47]	13.13 [11.16]	p=0.0774



Discussion

- **A conservative approach:**
 - significantly reduced the need for surgical intervention
 - had lower ED re-visit rates
 - had a longer average hospital stay

Future Directions

- Metanalysis of current patient management strategies
- Exploration of patient outcomes with this protocol in more diverse patient populations and different geographic areas

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Thank you

- Questions?