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A NSQIP Analysis of Post-Operative Antibiotic Utilization in Uncomplicated Appendicitis

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Background

- 70,000 cases of pediatric appendicitis annually in the US (65-85% uncomplicated)
- APSA 2010 recommendations do not support antibiotic use post-operatively following appendectomy for uncomplicated appendicitis
- Compliance with the recommendation varies by institution.

Aim: Determine the rate of post-operative antibiotic use in uncomplicated appendicitis.

Methods

- NSQIP Targeted appendectomy procedure files (2015-2016) merged w/base NSQIP files
- Queried for children with uncomplicated appendicitis.
- Analysis with STATA v15 for those discharged on antibiotics

Results

Characteristics	Frequency or Median [IQR] N = 4,637
Male Gender	62%
Age (years)	11.5 [9,14]
Ethnicity	
Caucasian	57%
African American	8%
Asian	3%
Other	1%
Unknown	9%
Length of Stay (days)	
Total Stay	1 [1,2]
Preop LOS	0 [0,1]
Postop LOS	1 [1,1]
Antibiotics on DC	9.8%
Post-op ED Visit	5.7%
Drain/Aspiration of fluid collection <30d	2.5%

	Abx on DC (n=426)	No Abx on DC (n=4,184)	p-value
Total LOS (d)	2 [1,3]	1 [1,2]	<0.01*
Preop LOS (d)	0 [0,1]	0 [0,1]	0.53
Postop LOS (d)	2 [1,3]	1 [1,1]	<0.01*

Conclusion

- 10% discharged on antibiotics following appendectomy for uncomplicated appendicitis
- Two additional days of antibiotics
- Continued efforts to standardize practice

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