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Antibiotic Treatment of Acute Otitis Media (AOM)

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INTRODUCTION AND OBJECTIVES

- AOM is an infection of the middle ear that is common in early childhood.
- **Antibiotic guideline recommendations**
 - Amoxicillin first line
 - Amoxicillin-clavulanate second line
 - Cefdinir third line
- The **goal of this project** was to evaluate the guideline adherence of cefdinir prescriptions for AOM diagnoses amongst Lehigh Valley Health Network (LVHN) pediatric practices.

METHODS



- Reviewed patient charts of children 6 months-12 years diagnosed with AOM and prescribed cefdinir at LVHN pediatric practices in May 2022 compared to November 2022
- Reviewed prescriptions 30 days prior to visit date and documented allergies to determine if there was adherence to guidelines

RESULTS

	May 2022 N= 763	November 2022 N=1058
Treatment prescribed	577 (76%)	832 (79%)
Amoxicillin	360 (62%)	236 (28%)
Amoxicillin-clavulanate	90 (16%)	259 (31%)
Cefdinir	97 (17%)	283 (34%)
Other	30 (5%)	54 (7%)

Table 1. Antibiotic prescription statistics for pediatric patients seen with AOM diagnoses in May vs November 2022

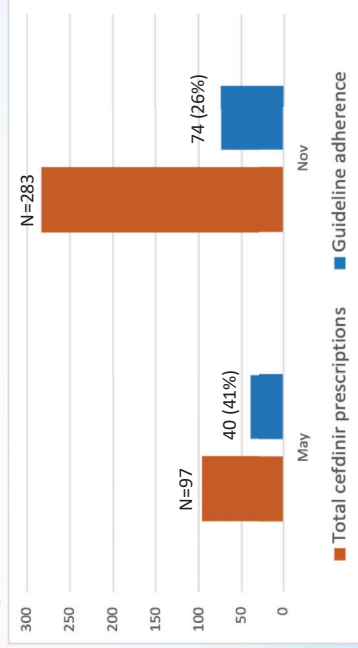


Figure 1. Total cefdinir prescriptions for pediatric patients with AOM diagnoses and total cefdinir prescriptions adherence with antibiotic guidelines in May vs November 2022

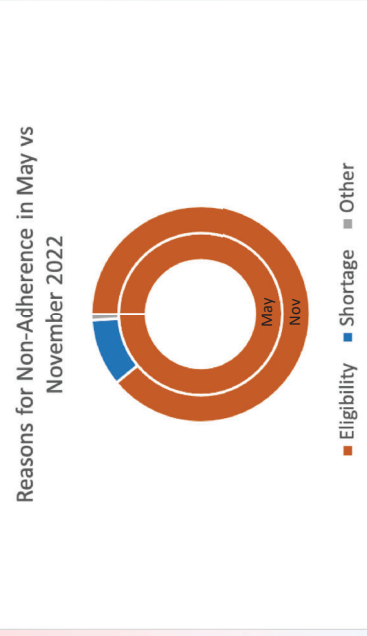


Figure 2. Reasons for non-adherence to antibiotic guidelines for cefdinir prescriptions in pediatric patients in May vs November 2022

CONCLUSIONS/RECOMMENDATIONS

- Guideline **adherence decreased** from May to November 2022 in terms of prescribing cefdinir.
- Cefdinir prescriptions **exceeded** amoxicillin-clavulanate prescriptions in both May and November.
- The majority of patients prescribed cefdinir were **eligible** to receive amoxicillin or amoxicillin-clavulanate.
- Cefdinir prescribed instead of first-line and second-line treatments: **guideline recommendations not followed**

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