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Introduction

- In the US, approximately 60% of antimicrobial prescriptions are written in the outpatient setting, and roughly 30% of those are unnecessary.¹⁻³
- The Tennessee Department of Health (TDH) previously described outpatient antimicrobial use using data obtained from IQVIA Xponent in 2016 and 2018. These analyses have only sought to describe volume of antimicrobial prescribing in Tennessee.^{4,5}
- TDH acquired additional data from IQVIA Longitudinal **Prescription and Medical Claims datasets in 2021.**
- We sought to link antimicrobial prescriptions to diagnosis claims from preceding outpatient office visits to measure appropriateness of statewide antimicrobial prescriptions.

Methods

- Retrospective IQVIA medical claims data and antimicrobial prescriptions data for calendar year 2020 were used in this study.
- The claims data were transposed to obtain all diagnostic codes related to each medical visit. The transformed data were then linked to the antimicrobial prescriptions data using a unique patient ID.
- Prescriptions filled within 7 days after a patient's medical visit were included.
- Diagnoses codes from the medical visits were categorized as Tier 1, defined as diagnoses that always 🚦 🚥 require antimicrobial therapy, Tier 2 as diagnoses that may require antimicrobial therapy, and Tier 3 as diagnoses that never require antimicrobial therapy.
- We compared Tier 1 prescriptions versus Tier 2 and **Tier 3 prescriptions volume.**

Analysis of Appropriate Outpatient Prescriptions based on Diagnosis Codes, Tennessee, 2020

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- fluoroquinolones (10.5%).

Filled Date

