

Abstract Template

Instructions: Please use the following template when writing your abstract for the Missouri Resident Research Conference. Please do not exceed 300 words and use font: Times New Roman and font size: 11.

Title: Comparative Efficacy of Macrolides vs. Fluoroquinolones in the Outpatient Treatment of Acute Exacerbations in Patients with COPD after Initial Treatment Failure with Macrolides

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Introduction: Data guiding antibiotic choice in acute exacerbation of COPD (AECOPD) unresponsive to initial macrolide treatment are limited. Fluoroquinolones could be alternatives to macrolide treatment with lower reported treatment failures. Understanding comparative efficacy of macrolides and fluoroquinolones after initial macrolide treatment failure can guide therapy choice in the outpatient setting.

Methods: Adults aged 18-89 years with AECOPD initially treated with macrolides in the last 14 days between 2014 and 2019 at VA St. Louis Health Care System were retrospectively identified. Index date was first day of fluoroquinolone or retreatment with macrolide. The primary outcome was failure of AECOPD resolution, defined as a composite of any unscheduled outpatient COPD-related visit or hospital admission within 30 days of the index visit. Key secondary outcomes were the individual components of the primary outcome and albuterol inhaler use within one year after the index COPD exacerbation. Statistical analysis included a Fischer's exact test for categorical variables and independent t-tests for continuous variables.

Results: To be determined

Conclusions: To be determined