

Age-related Antibiotic Prescribing Trends of Positive Clostridioides difficile Incident Cases within Davidson County Tennessee 2012-2020

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Figure 3: Percent of Cases Given

Antibiotics 12 Weeks Prior to

Positive CDI Case

Conclusions

Contact Information

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Antibiotics

Antibiotics

Not Given

Given

Background

- Clostridioides difficile infection (CDI) is one of the most common healthcare-associated infections in the United States.
- Antibiotic use is considered a predisposing factor for CDI.
- The State of Tennessee collaborates with the CDC as part of an ongoing **Emerging Infections Program (EIP).** Tennessee DOH surveils all cases of CDI in Davidson County.
- We sought to better understand the impact of antimicrobial use prior to the date of incident of CDI within the defined age groups of Davidson County, Tennessee.

Methods

- Surveillance data from 2012-2020 were examined for all positive CDI cases within Davidson County.
- Incident cases were defined as a laboratory-confirmed C. difficile test for a person residing in Davidson county is ≥ 1 year of age.
- Antibiotic use was assessed in the 12 weeks prior to CDI. Trends of overall antibiotic use, including the top five antibiotics prescribed by our defined age groups were examined.
- Only fully abstracted cases are included in the study.
- Analysis was performed using SAS version 9.4.

