

# Antibiotic Stewardship

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## HEDIS<sup>®</sup> Antibiotic Measures

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# Planning Committee Disclosures

**Sepheen Byron, DrPH, MHS**, received a grant from the Centers for Disease Control and Prevention for reevaluation of the HEDIS antibiotic measures.

**Nancy McGee, MS, MBA**, has no financial relationships to disclose relating to the subject matter of this presentation.

**Kara Martin, MPH**, has no financial relationships to disclose relating to the subject matter of this presentation.

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# Faculty



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# Objectives

- Define the importance of antibiotic use and stewardship.
- Describe HEDIS measures that assess antibiotic use, including how these measures have changed over time.
- Describe health plan performance from Measurement Years 2020 and 2021

# Antibiotic Medications

## *Background and Importance*



### **Antibiotics are prescribed at high rates**

- A major risk is antibiotic resistance
- Affects 2.8 million people per year
  - Associated with 35,000 deaths per year



### **Antibiotics are often prescribed without indication**

- Commonly prescribed for acute respiratory conditions
- Common cold and influenza
  - Pharyngitis
  - Bronchitis, Bronchiolitis



### **Antibiotics require careful consideration**

- Interventions targeting inappropriate antibiotic use can be informed by
- Monitoring antibiotic utilization
  - Leveraging data to identify areas for improvement

# Antibiotic Stewardship

## *Outpatient settings*

The effort to **measure** and **improve** how **antibiotics** are **prescribed** by clinicians and **used** by patients<sup>1</sup>

### **Commitment**

Demonstrate dedication to and accountability for optimizing antibiotic prescribing and patient safety

### **Action for Policy and Practice**

Implement at least one policy or practice to improve antibiotic prescribing, assess whether it is working and modify as needed

## **Core Elements of Outpatient Antibiotic Stewardship<sup>2</sup>**

### **Tracking and Reporting**

Monitor antibiotic prescribing practices and offer regular feedback to clinicians, or have clinicians assess their own antibiotic prescribing practices themselves

### **Education and Expertise**

Provide educational resources to clinicians and patients on antibiotic prescribing and ensure access to needed expertise on optimizing antibiotic prescribing

<sup>1</sup>Centers for Disease Control and Prevention. Core Elements of Antibiotic Stewardship. April 7, 2021. [www.cdc.gov/antibiotic-use/core-elements/index.html](http://www.cdc.gov/antibiotic-use/core-elements/index.html)

<sup>2</sup>Sanchez GV, Fleming-Dutra KE, Roberts RM, Hicks LA. Core Elements of Outpatient Antibiotic Stewardship. MMWR Recomm Rep 2016;65(No. RR-6):1–12

# HEDIS Antibiotic Measures Set

Three measures assess avoidance of inappropriate antibiotic prescribing for key respiratory conditions

**Acute  
Bronchitis/  
Bronchiolitis**

**Pharyngitis**

**Upper  
Respiratory  
Infection**

**All  
respiratory  
conditions**

**Domain**  
Effectiveness of Care

**Domain**  
Utilization



# Avoidance of Antibiotic Treatment for Acute Bronchitis/Bronchiolitis

## *Measure Description*

Episodes for members ages 3 months and older with a diagnosis of **acute bronchitis/bronchiolitis** that did **not** result in an antibiotic dispensed

## Product Lines

Medicaid, Commercial, Medicare

## Data Source

Administrative claims

## Required Benefit

Medical and Pharmacy

## Domain

Effectiveness of Care

# Appropriate Treatment for Upper Respiratory Infection

## *Measure Description*

Episodes for members ages 3 months and older with a diagnosis of **upper respiratory infection** that did **not** result in an antibiotic dispensed

## Product Lines

Medicaid, Commercial, Medicare

## Data Source

Administrative claims

## Required Benefit

Medical and Pharmacy

## Domain

Effectiveness of Care

# Appropriate Testing for Pharyngitis

## *Measure Description*

Episodes for members ages 3 years and older Where the member was diagnosed with **pharyngitis**, dispensed an **antibiotic**, and received a group A **strep test**

## Product Lines

Medicaid, Commercial, Medicare

## Data Source

Administrative claims

## Required Benefit

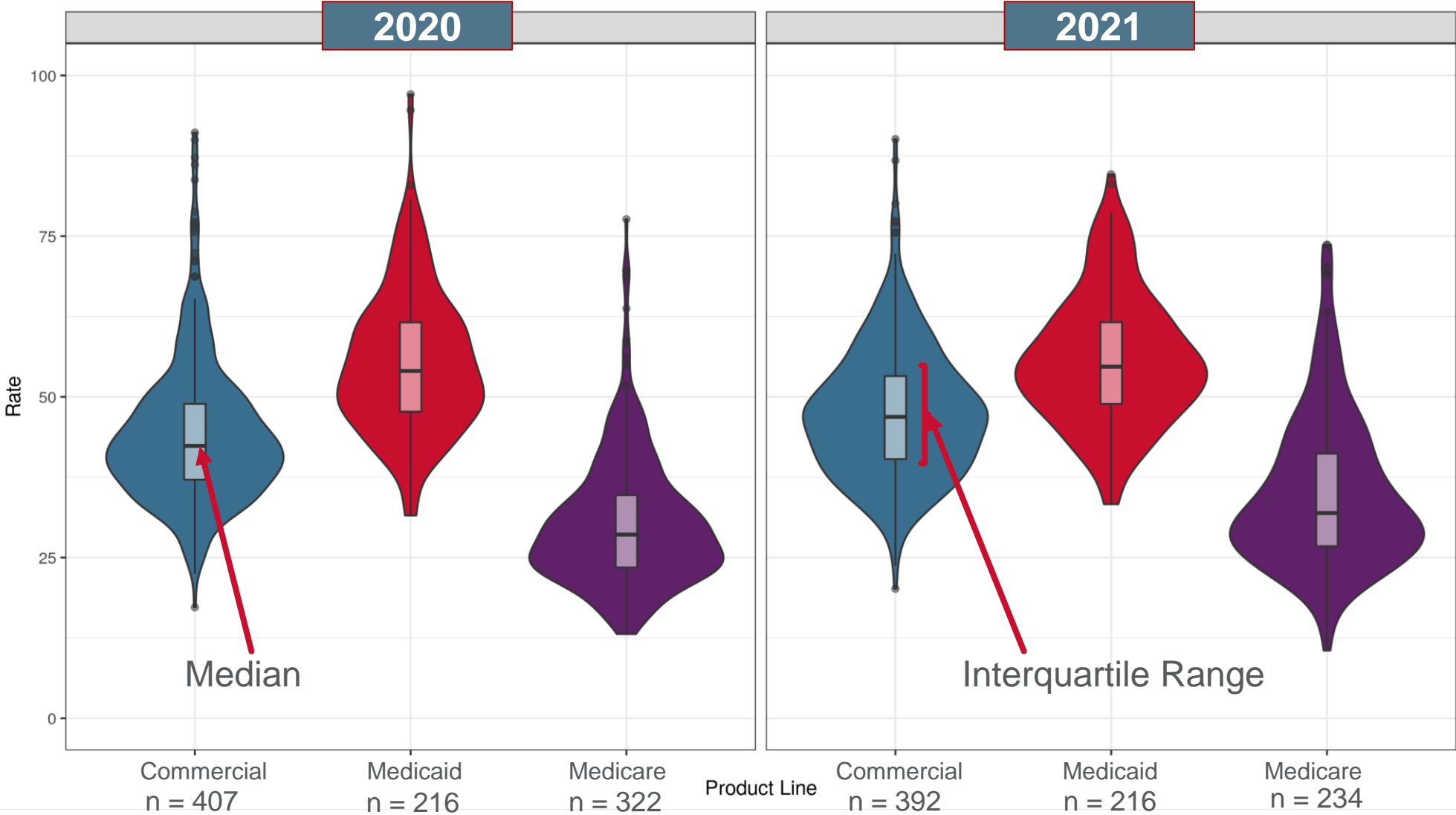
Medical and Pharmacy

## Domain

Effectiveness of Care

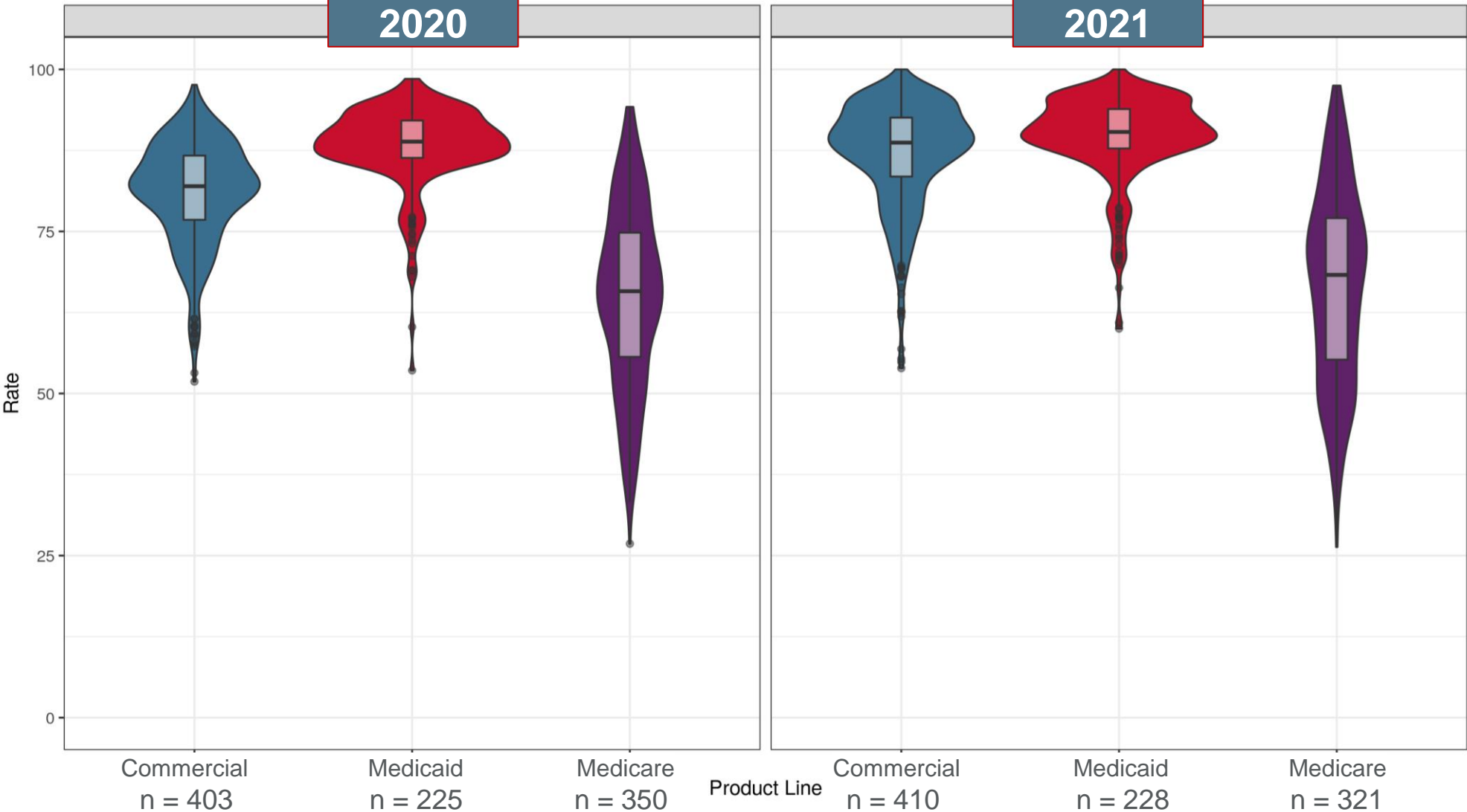
# Avoidance of Antibiotic Treatment for Acute Bronchitis/Bronchiolitis

Measurement years 2020, 2021



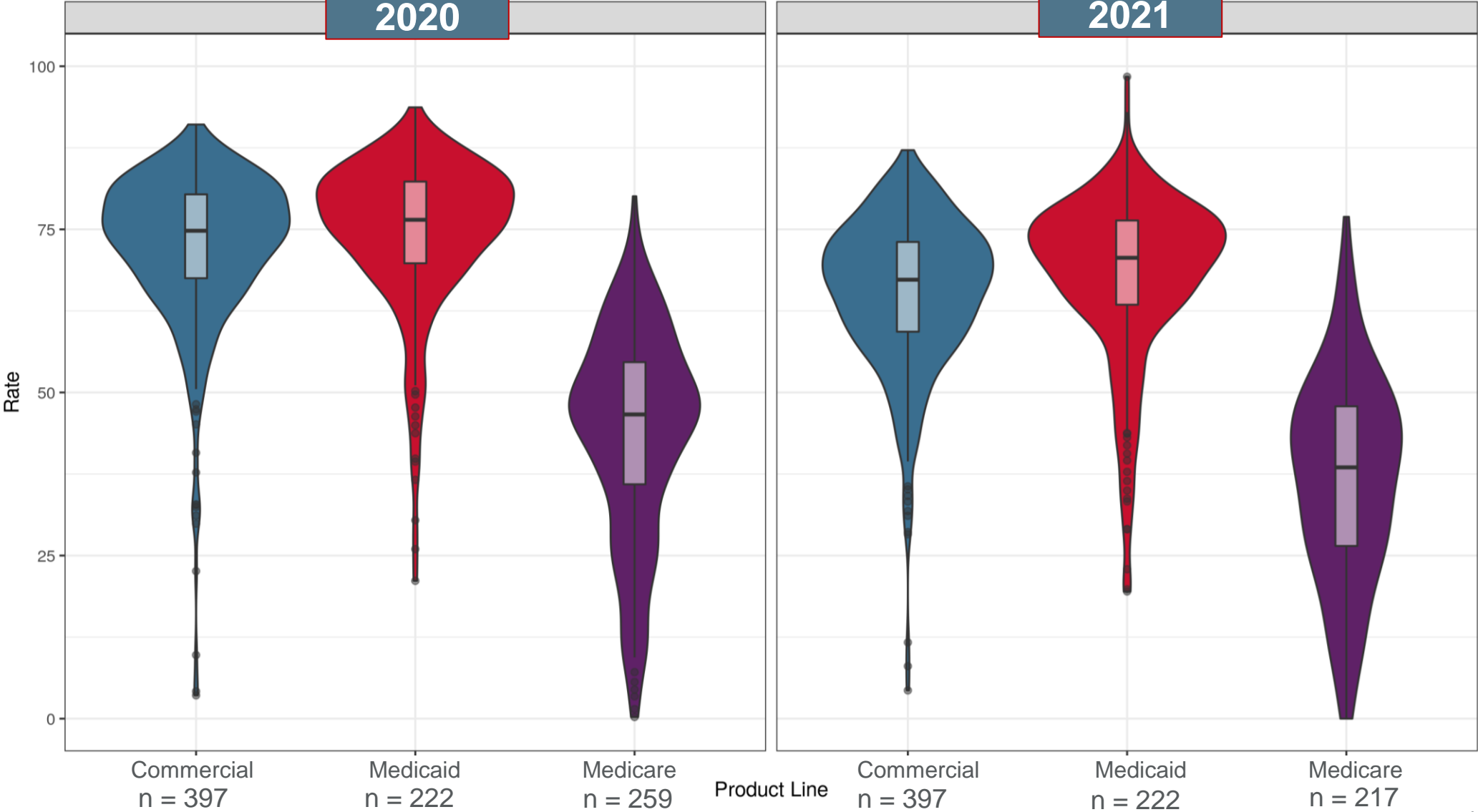
# Appropriate Treatment for Upper Respiratory Infection

Measurement years 2020, 2021



# Appropriate Testing for Pharyngitis

Measurement years 2020, 2021



# KEY TAKEAWAYS

## Final Summary

- Misuse of antibiotics can lead to poor health outcomes.
- Health plans can play an important role in antibiotic stewardship in outpatient settings.
- Antibiotic stewardship requires tracking and reporting.
- HEDIS measures assessing the avoidance of inappropriate prescribing practices show room for improvement.

# NCQA Antibiotic Stewardship Webinar Series

Webinar Title	Speakers	Date & Time (Eastern)
Defining Antibiotic Stewardship and Reviewing Associated HEDIS Measures	Sepheen Byron, DrPH, MHS Nancy McGee, MS, MBA <i>National Committee for Quality Assurance</i>	8/16/2022 1:00 - 2:00 pm
What's New in the World of Antibiotic Stewardship? Part 1: Using Performance Measures in Practice to Drive Change	Sepheen Byron, DrPH, MHS <i>National Committee for Quality Assurance</i> Eddie Stenehjem, MD <i>Intermountain Healthcare</i>	8/23/2022 1:00 - 2:00 pm
What's New in the World of Antibiotic Stewardship? Part 2: Impacts of COVID and Use of Telehealth	Sharon Tsay, MD <i>Centers for Disease Control and Prevention</i> Moderator: Sepheen Byron, DrPH, MHS <i>National Committee for Quality Assurance</i>	8/25/2022 1:00 - 2:00 pm
Addressing the Social and Behavioral Drivers of Prescribing: Innovative Approaches to Antibiotic Stewardship	Julie Szymczak, PhD <i>University of Pennsylvania</i> Rita Mangione-Smith, MD <i>Kaiser Permanente Washington</i> Moderator: Nancy McGee, MS, MBA <i>National Committee for Quality Assurance</i>	9/1/2022 1:00 - 2:15 pm
Panel Discussion: How Health Plans Approach Antibiotic Stewardship and HEDIS Antibiotic Measures	Shawn Trivette, PhD Moderator: Nancy McGee, MS, MBA <i>National Committee for Quality Assurance</i> Health Plan Panelists	9/8/2022 1:00 - 2:30 pm





# Q&A

# Thank You

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  - [Defining Antibiotic Stewardship and Reviewing Associated HEDIS® Measures](#)
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- Once you view the item in your cart, select the option **checkout**.
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