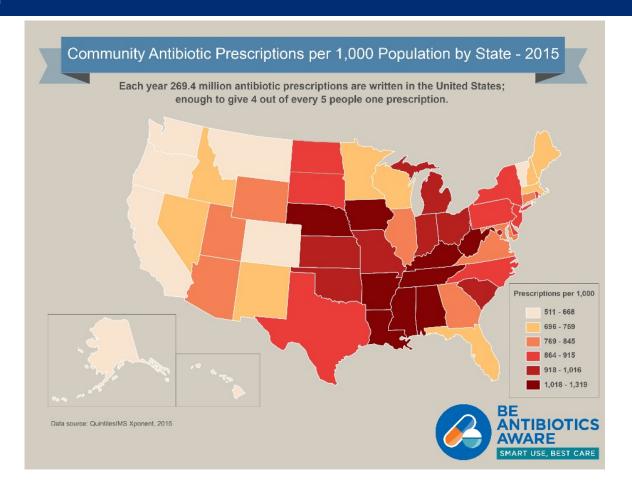


Using Medicaid Data to Map Avoidable Prescribing Practices

February 10, 2019
Emily Lutterloh, MD, MPH
Director, Bureau of Healthcare Associated Infections
New York State Department of Health



Analysis

- Collaboration with NYSDOH Office of Quality and Patient Safety
 - Access to and experience with Medicaid data
- Identify initial visits to outpatient providers for acute upper respiratory infections (URIs)
- Use pharmacy claims data to identify visits when an antibiotic was prescribed and subsequently filled
- Determine regional rates of prescribing for URIs to better target interventions

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Analysis

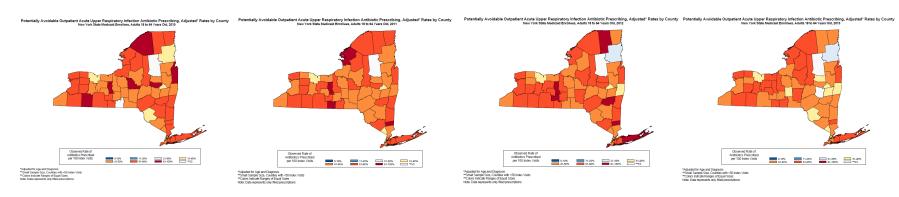
- Mapped potentially avoidable prescribing for URIs
- Created county-level maps based on provider practice location

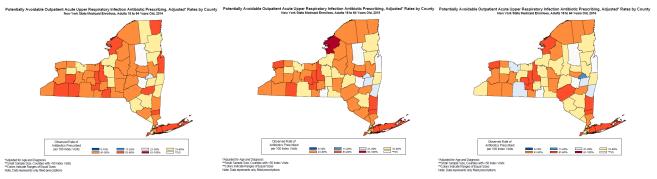
Potentially Avoidable Outpatient Acute Upper Respiratory Infection Antibiotic Prescribing, Adjusted* Rates by County New York State Medicaid Enrollees, Adults 18 to 64 Years Old, 2013 Observed Rate of Antibiotics Prescribed 31-40%

^{*}Adjusted for Age and Diagnosis
**Small Sample Size, Counties with <50 Index Visits
**Colors Indicate Ranges of Equal Sizes
Note: Data represents only filled prescriptions

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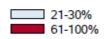
Adult Outpatient Antibiotics for Acute URI, 2010 - 2016





Observed Rate of Antibiotics Prescribed per 100 Index Visits

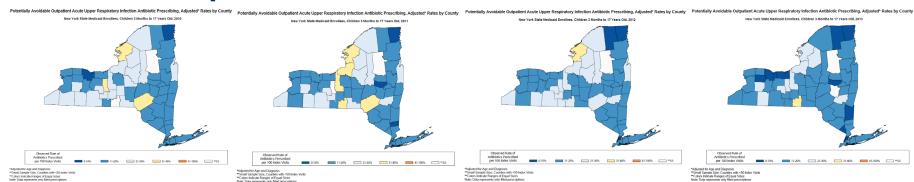


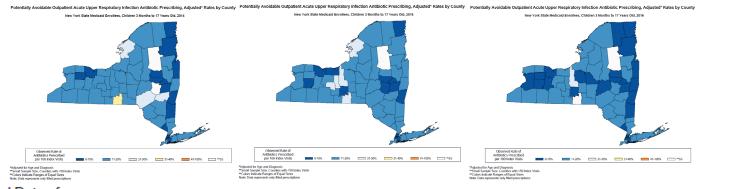






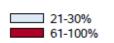
Pediatric Outpatient Antibiotics for Acute URI, 2010 - 2016





Observed Rate of Antibiotics Prescribed per 100 Index Visits









February 10, 2019

Outreach: Letter to Prescribers



Department of Health

ANDREW M. CUOMO Governor HOWARD A. ZUCKER, M.D., J.D. Commissioner

SALLY DRESLIN, M.S., R.N. Executive Deputy Commissioner

July 2015

Dear Provider

The Centers for Disease Control and Prevention (CDC) and the New York State Department of Health (Department) are working together to curb the overprescribing of antimicrobial agents.

Recently, the Department performed an analysis of statewide adult outpatient Medicaid claims data from 2013. Based upon this analysis, your practice has been identified as being located in an area of New York State that has an unexpectedly high rate of potentially avoidable antibiotic prescribing. Please see the enclosed map.

- Sent "Dear Provider" letters and map to providers in 11 high-prescribing counties likely to see patients for URIs
- Followed up with educational materials



Interventions

ADULT AND PEDIATRIC ANTIBIOTIC PRESCRIBING **GUIDELINES** Adult Outpatient Treatment Recommendations 2017:

Acute rhinosinusitis2-4

Summary of Guidelines¹

90-98% of cases are viral

Antibiotics may NOT help even if cause is bacterial

Diagnosis

Symptoms of acute bacterial rhinosinusitis are:

- · Severe (>3-4 days), fever ≥39°C (102.2°F) and purulent
- nasal discharge or facial pain; Intranasal glucocorticolds · Persistent without
- Improvement, such as nasal discharge or daytime cough for at least 10 days beyond the onset of viral upper
- respiratory symptoms; or · "Double worsening", such as worsening or new onset fever, daytime cough, headache or nasal discharge within 10 days after initial

Improvement of a viral URI Sinus radiographs are NOT

routinely recommended.

Management

If bacterial, watchful waiting encouraged for uncomplicated infections with reliable follow-up.

Evidence-based supportive care:

- · Sallne nasal Irrigation
- . Oral decongestants when there is Eustachian tube dysfunction
- · OTC analgesics and antipyretics Macrolides (such as azithromycin) are NOT recommended due to high levels of S. pneumoniae antibiotic resistance (~40%).

If mild/moderate and no risk factors for resistance: amoxiciilin/clavulanate 500/125 mg PO 3x/day or 875/125 mg PO 2x/day x 5-10 days

(Some experts recommend amoxicillin.) If severe disease or risk factors for resistance (>65 yo, antibiotics within 30 days, recent hosp, ≥10% penicillin non-susceptible S. pneumoniae,

amoxicillin/clavulanate 2 g/125 mg PO 2x/day x

Penicillin-allergic patients:

 doxycycline 100 mg PO 2x/day or 200 mg PO 1x/ day x5-10 days

See references for additional treatment options. Including re-treatment after initial treatment failure. and other important information.

ADULT ANTIBIOTIC PRESCRIBING GUIDELINES



Antibiotic Resistance Task Force



Your health is important to me.



That's why I'm signing the "Smart Use Guarantee."

Antibiotics don't work for viral infections like the common cold, most coughs. and most sore throats. Taking antibiotics when they don't work can do more harm then good by causing stomach upset, diamtica, or allergic reactions.

I guarantee I will do my best to prescribe antibiotics only when you need them.

Antibiotics can be life-saving, but bacteria are becoming more resistant. If we're not careful about how we prescribe and use the antibiotics we've relied on for years, they might not work for us in the future.
To learn more visits ado,gov.



The Future

Next Steps

- Additional years
- Other conditions,
 e.g. pharyngitis, otitis
 media
- Overall antibiotic prescribing per Medicaid enrollee
- Assess adherence to guidelines
- Other insurers

Impact

- Target other initiatives
- Multiple other initiatives ongoing simultaneously
 - Difficult to measure
- Continue to follow as additional years of data become available



Thank You

