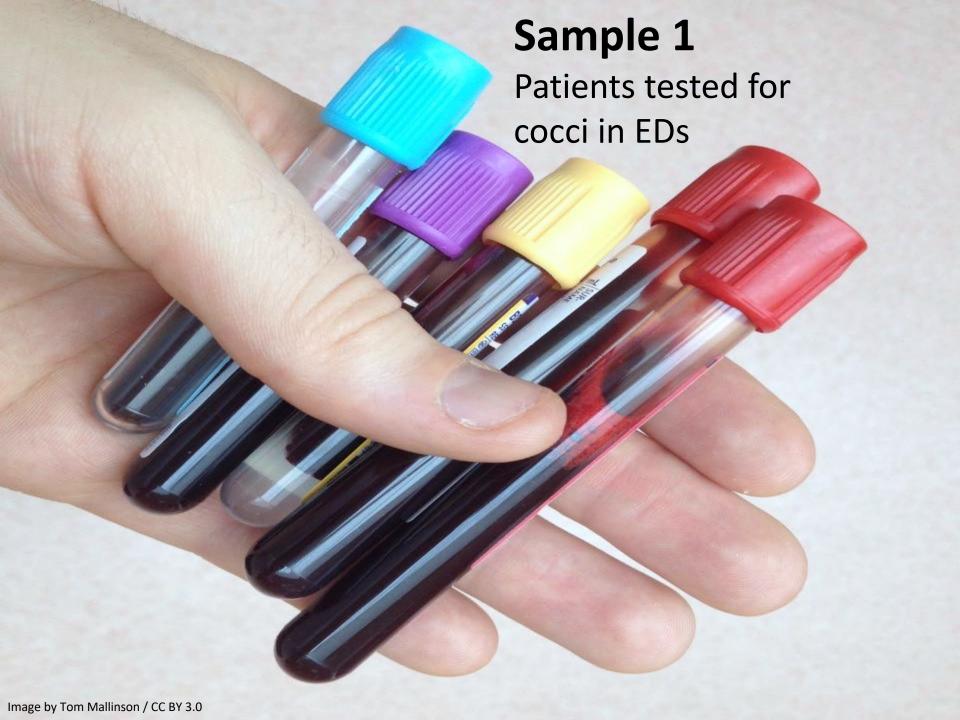
# Testing for coccidioidomycosis in emergency departments in Arizona

Public Health Satellite Meeting Coccidioidomycosis Study Group April 13th, 2018

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# Samples

- 1. Patients tested for cocci in EDs
- 2. Community-acquired pneumonia (CAP) patients that presented in EDs



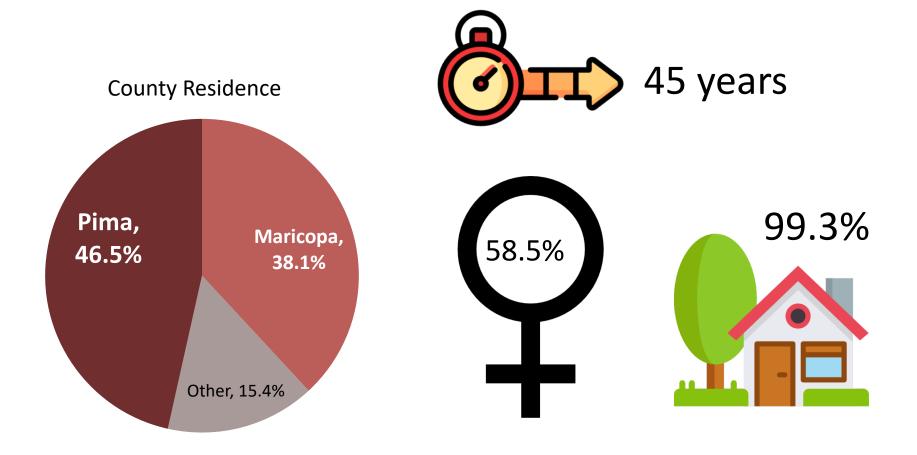


#### Patients tested for cocci in EDs

- Hospital Discharge Database (HDD)
  - ED visit records
    - Admission dates between 1/1/2014 and 12/31/2014
    - Arizona residents
    - 18 years or older
    - Current Procedural Terminology (CPT) codes for cocci testing
  - Testing provider and facility information

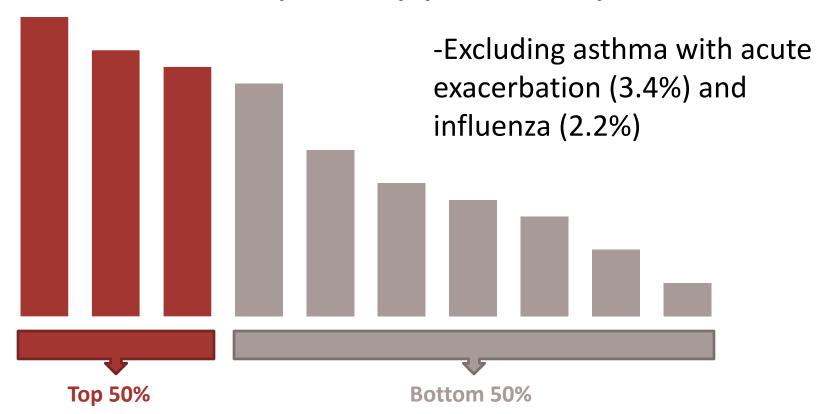


## 2,672 ED visits with a CPT code for cocci testing

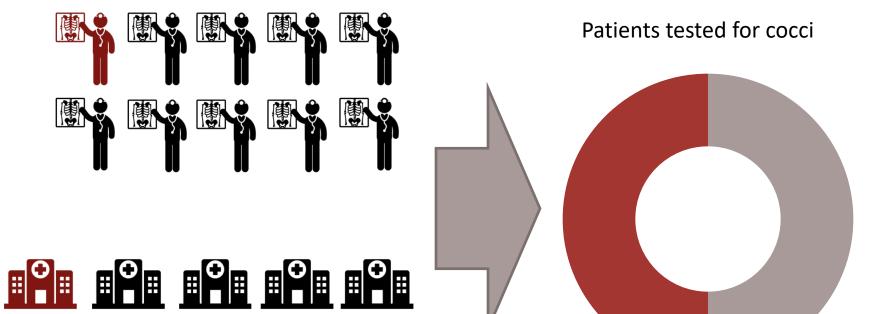




**Top 50%** of principal discharge diagnoses consistent with primary pulmonary cocci







# Sample 2 CAP patients that presented in EDs



#### **CAP** patients that presented in the ED

- HDD
  - ED visit records associated with CAP
    - Admission dates between 1/1/2014 and 12/31/2014
    - Arizona residents
    - 18 years or older
    - ICD-9-CM codes for pneumonia due to infection



#### • Excluded:

- Patients not admitted from the community
- Hospitalized 90 days prior to ED visit
- Previously reported cocci cases



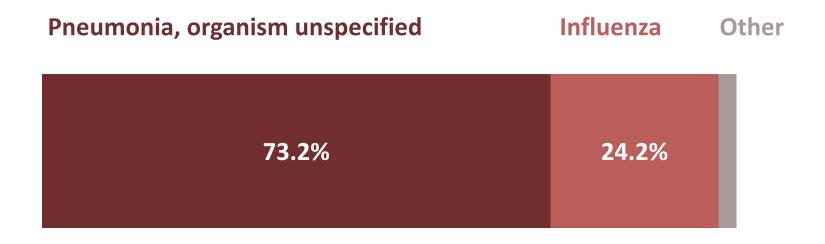
- Only earliest ED visit included if multiple visits during study period
- Only records with CPT codes for chest x-ray were included





#### 13,294 ED visits associated with CAP

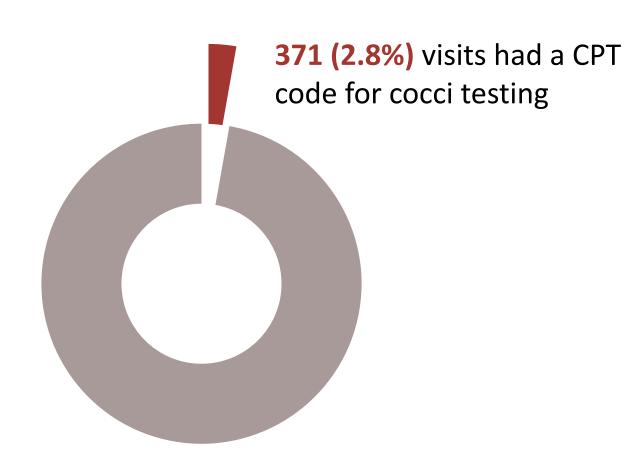
Most common CAP-defining ICD-9-CM codes:







#### 13,294 ED visits associated with CAP







18

Facilities where **cocci testing was never ordered** for CAP patients in the ED

1,903 (14.3%) CAP patients who sought care at these facilities



69%

Providers who saw 10 or more CAP patients never ordered cocci testing

7,293

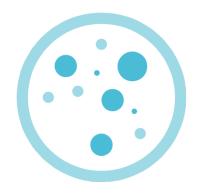
(54.9%)

CAP patients were seen by these providers

# Discharge Record Limitations

1.

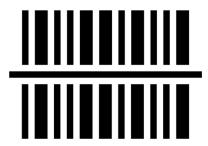
**3.** 



2.



**CPT** codes



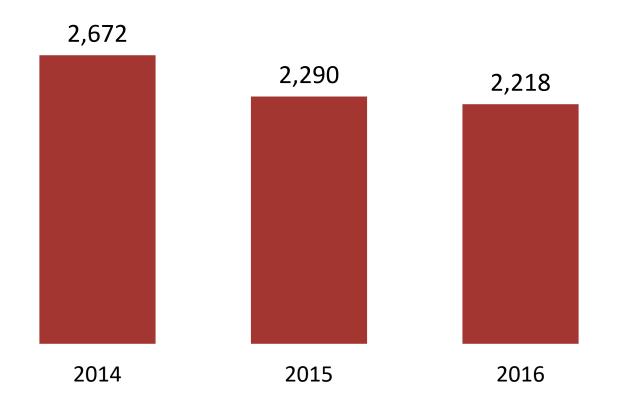


**ICD-9-CM codes** 



# Update

Patients tested for cocci in EDs over time



## Conclusion

- Cocci testing in EDs is uncommon
- Testing varies substantially by facility and provider
- A small number of facilities and providers accounted for a disproportionate number of tested patients
- More insight into clinical decision making regarding cocci testing in EDs is needed

#### THANK YOU

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