



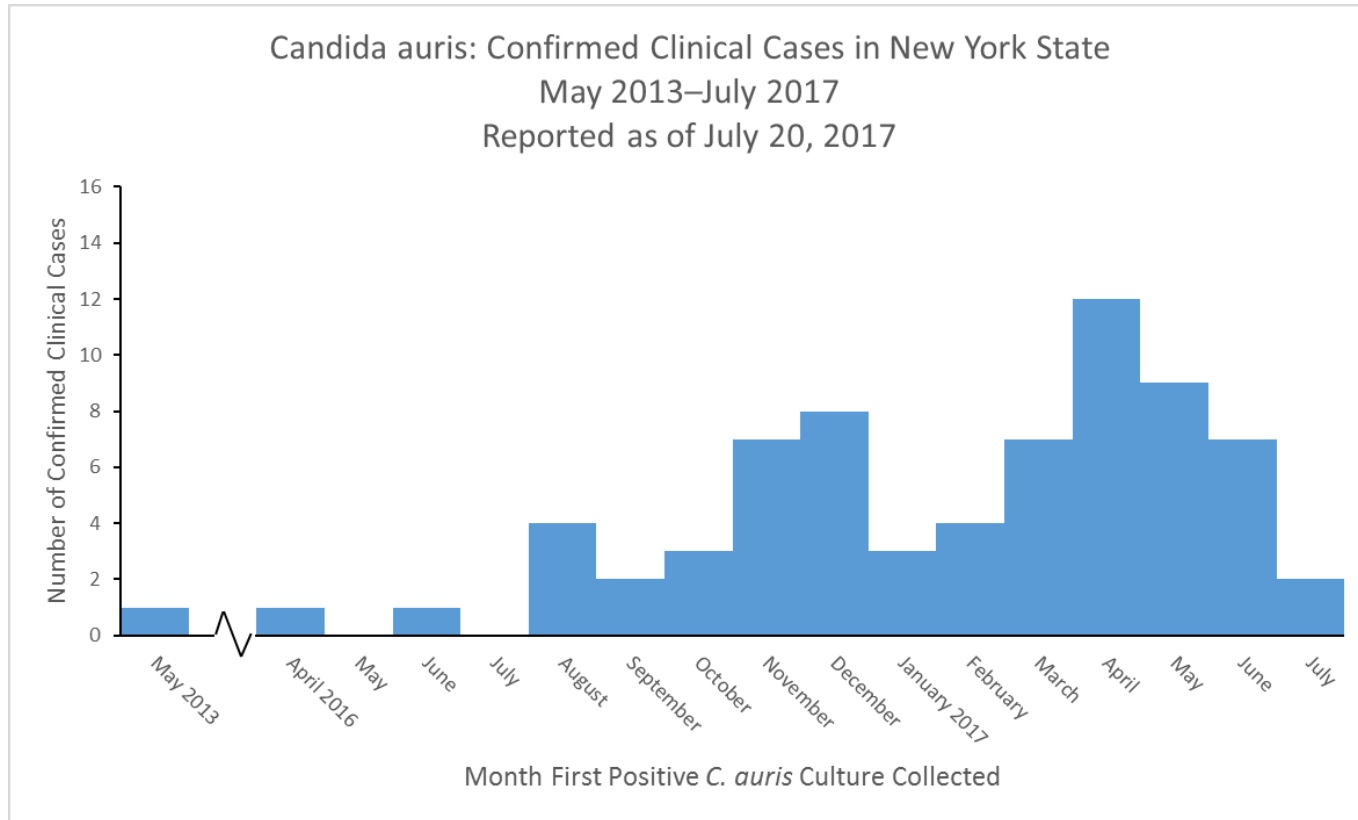
Department
of Health

Candida auris in New York State

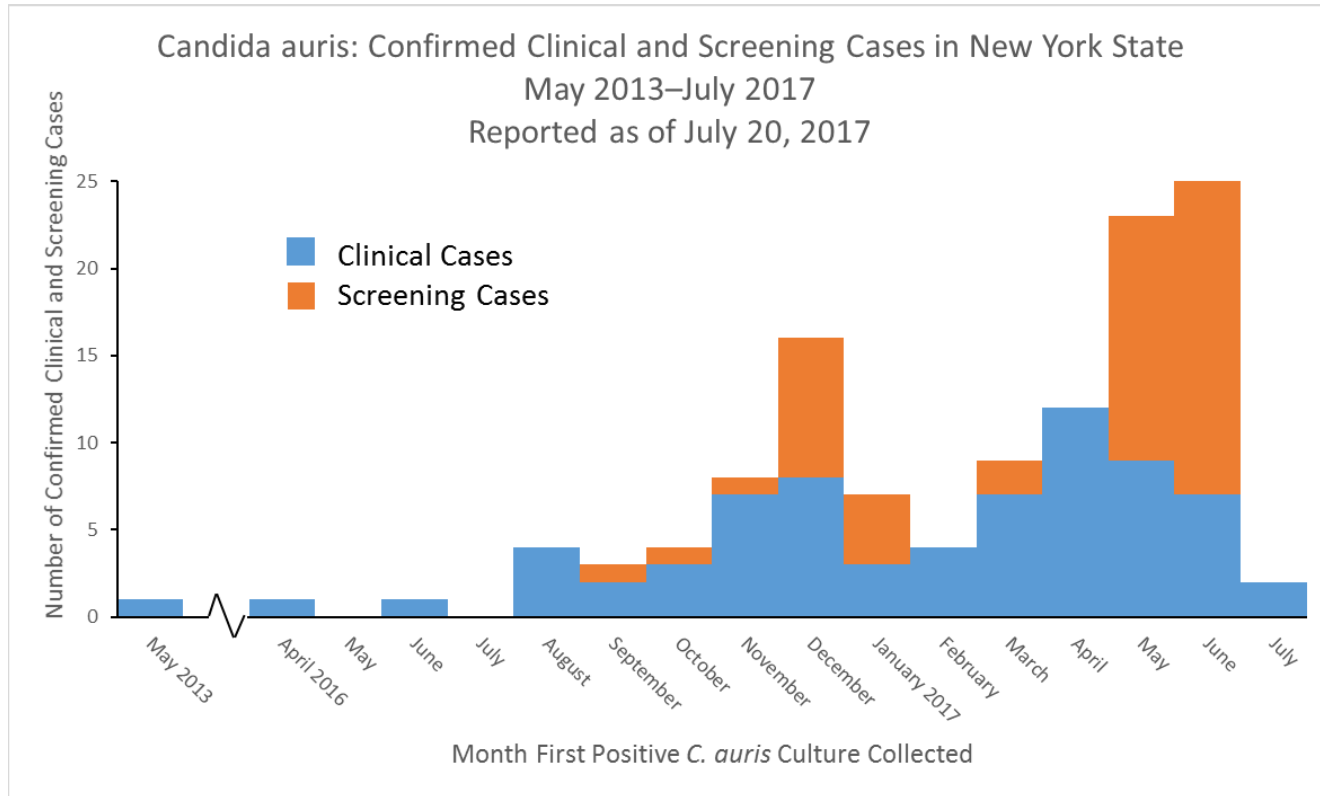
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New York State Department of Health

Emergence in New York State

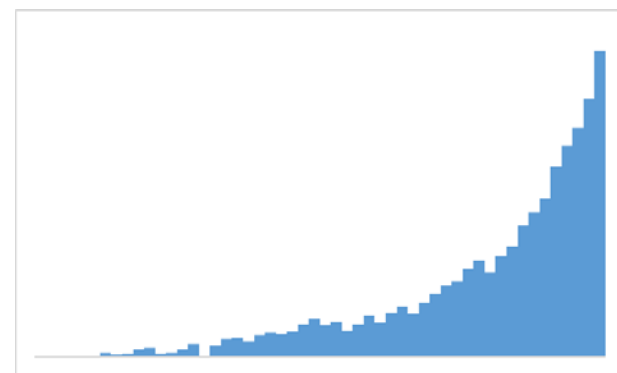
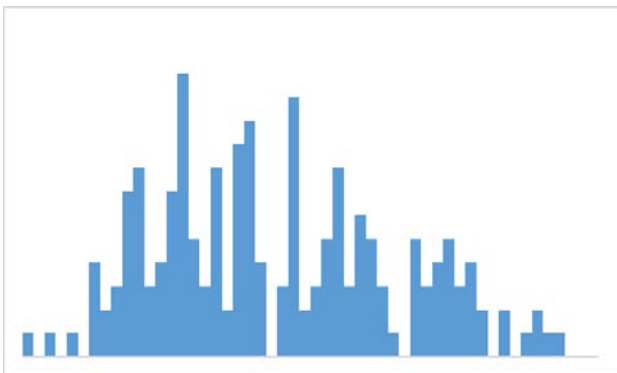
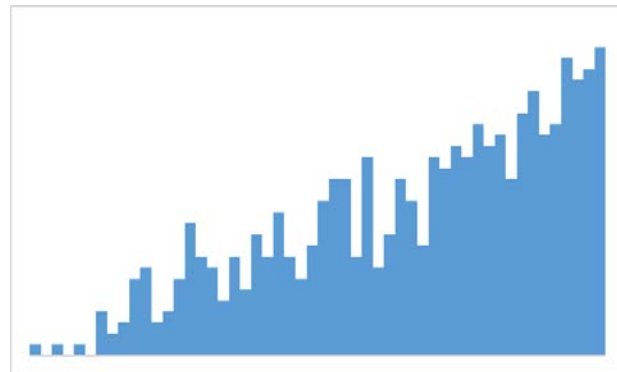
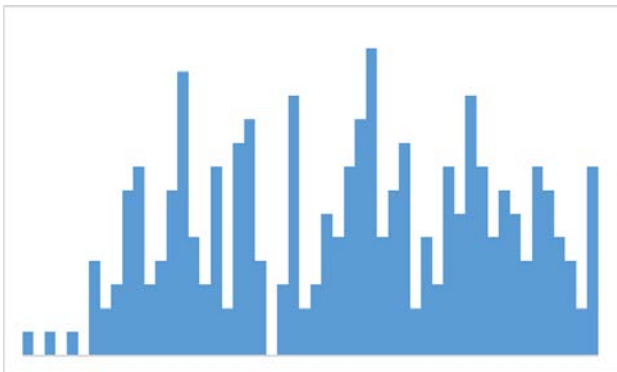
Epidemiologic Curve



Epidemiologic Curve



The Future



Case Counts as of July 21, 2017

- 71 clinical cases
- 66 screening cases
- 4 probable cases

- All infected persons had other serious medical conditions

Clinical Cases

- 71 Cases as of 7/21/2017
- Average age 68 (27 days to 96 years)
- 36 (51%) male
- Site of infection
 - blood 42 (59%)
 - urine 9 (13%)
 - skin/wound/tissue/abscess 6 (8%)
 - bile 4 (6%)
 - catheter tip 2 (3%)
 - ear 1 (1%)
 - other 7 (10%)

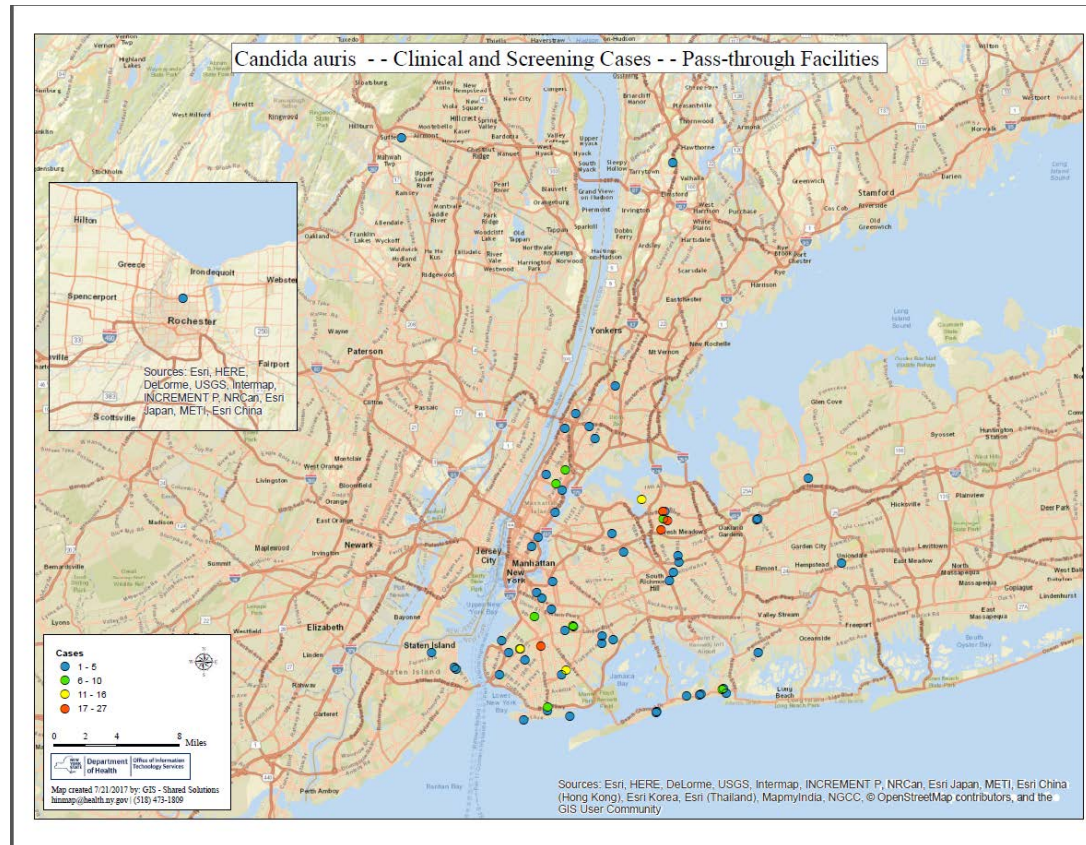
Geographic Distribution

- All but 2 diagnosed in New York City facilities
 - Greatest numbers in Brooklyn, Queens
- One diagnosed in Monroe County (Rochester)
 - Recent admission to involved NYC hospital
- One diagnosed in Westchester County
 - No obvious link to NYC facilities

Facility Involvement

- From 90 days before 1st positive culture to the present
 - 28 NYS hospitals
 - 37 NYS nursing homes
 - 1 LTACH
 - 1 Hospice
 - Additionally, 1 hospital outside the US, 1 LTACH in another state, numerous private medical offices, private homes

Geographic Distribution



Antifungal Resistance

- All but one case resistant to fluconazole
 - Variable resistance to other azoles
- Resistance seen to amphotericin B
- Only one case resistant to echinocandins
 - Recent development, NYC case
 - The resistant case's isolates were initially susceptible to echinocandins but later developed resistance, a known treatment challenge

NYSDOH Prevention and Control Activities



Goals

- Prevent transmission and further spread in affected facilities
- Define the extent of the problem
- Delay and blunt the impact of this organism in New York and the US

When We Find a Case

- NYSDOH regional epidemiologists contact facility
- Ensure appropriate infection control measures are in place
- Case investigation (e.g. medical record review, location tracking)
- Surveillance cultures of contacts (e.g. roommates)
- Point prevalence surveys of affected units
- Environmental cultures of surfaces
- Site visit

Laboratory Investigation

- Wadsworth Center
 - Support affected facilities (supplies, shipping)
 - Culture, susceptibilities, PCR
 - Isolates and also primary clinical and environmental samples

Current Activities

- Required webinar for NYC hospitals and nursing homes Thursday, May 11, 2017
- On-site reviews of hospitals and nursing homes in Brooklyn and Queens to assess compliance with infection control requirements
- Continued testing of patient and environmental samples at Wadsworth Center
- Roundtable with healthcare leadership to discuss guidelines, infection control, and *C. auris* response

Current Activities, cont.

- Point Prevalence Surveys
 - Target selected hospitals and nursing homes in affected region
 - Detect possible unrecognized *C. auris* colonization among patients and contamination in the environment
 - Evaluate response strategy
- Admission screening
 - Target high risk admissions
 - Promote early implementation of infection control precautions

Acknowledgements

- NYSDOH

- Eleanor Adams
- Sudha Chaturvedi
- Richard Erazo
- Rafael Fernandez
- Rosalie Giardina
- Jane Greenko
- Ronald Jean Denis
- Sarah Kogut
- Rutvik Patel
- Monica Quinn
- Karen Southwick
- Liz Dufort
- Nina Ahmed
- Stephanie Ostrowsky

- CDC

- Karlyn Beer
- Tom Chiller
- Nancy Chow
- Janet Glowicz
- Brendan Jackson
- Alex Kallen
- Ana Litvintseva
- Shawn Lockhart
- Abimbola Ogundimu
- Eugenie Poirot
- Sharon Tsay
- Snigdha Vallabhaneni
- Rory Welsh