

### Background

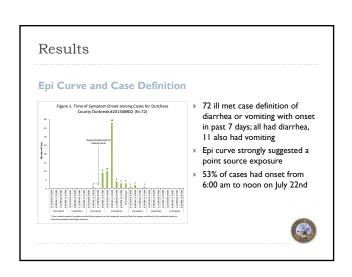
- Dutchess County Department of Health notified on July 22<sup>nd</sup>, 2015 of an outbreak of diarrheal illness at an educational summer camp for high school students
- > 70+ students and staff fell ill over a 24 hour period
- ▶ Camp located at a nearby college
- No other programs at the college reported any illness

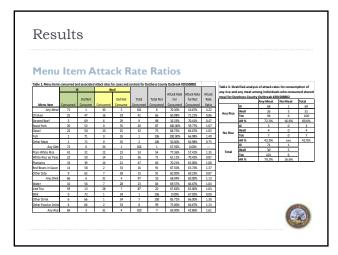


# Investigation Methods

- ▶ Preliminary site visit at camp/college
- ▶ Camp activities identified
  - Educational pre-college classes during the day, use of college recreational facilities
  - No field trips taken in the days leading up to the outbreak
  - ▶ Catered take-out dinner was ordered for camp July 21st
- ▶ Questionnaire conducted on site (n=121, 96%)
- ▶ Sanitary inspection of restaurant that supplied meal
- ▶ Two stool samples and meal leftovers sent to Wadsworth







#### Results

#### **Stool and food samples**

- ▶ Stool (2 samples)
  - ▶ Both negative for norovirus

  - Both positive for *C. perfringens*
- Meal leftovers
- ▶ Test results pending

#### **Sanitary Inspection**

- No probe thermometer
- ▶ Meal prep began ~ 6:00 am
- Warming trays reportedly used as items completed
- ▶ Plating started ~ 3:30 pm, meals remained at room temp after this point
- ▶ Delivery ~4:30 pm
- ▶ Consumed ~5:00-6:30 pm



### Conclusions

- Findings suggest outbreak of gastrointestinal illness was due to C. perfringens exposure during a common meal
  - Time between meal consumption and peak attack window consistent with bacterial toxin exposure
  - Evidence suggests that food was held at improper hot holding temperatures, allowing for germination and growth of *C*. perfringens
- ▶ Critical violations at restaurant have been corrected, enforcement action is in process.



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Dutchess County Department of Health Kari Reiber, MD, Commissioner www.dutchessny.gov

