FoodCORE: Year Eight Summary
Foodborne Diseases Centers for Outbreak Response Enhancement
January 1, 2018 – December 31, 2018

Background
Foodborne Diseases Centers for Outbreak Response Enhancement (FoodCORE) centers address gaps in foodborne disease response through enhanced capacity in laboratory, epidemiology, and environmental health to improve timeliness and completeness of outbreak response activities. The FoodCORE centers during Year Eight (January 1, 2018 – December 31, 2018) were Colorado, Connecticut, Minnesota, New York City, Ohio, Oregon, South Carolina, Tennessee, Utah, and Wisconsin.

Program Highlights
In Year Eight, the FoodCORE centers revised the Initial Case-patient Interviewing Model Practice. This model practice, originally posted to the FoodCORE website in 2014, describes the methods used by FoodCORE centers to gather detailed exposure histories from case-patients. Since the document was first written, new investigation methods have emerged. The 2018 version of this model practice expanded the section on reaching case-patients to include texting and the use of online questionnaires. These newer methods and the strategies described in the original document have allowed FoodCORE centers to attempt interviews with nearly all case-patients and reduce the proportion of cases that are lost to follow up.

While their efforts primarily focus on foodborne outbreaks, FoodCORE centers’ enhanced capacity has successfully aided in the response to outbreaks related to other sources and etiologies. One success story highlighted two zoonotic outbreaks in FoodCORE centers – a turtle-associated outbreak in Ohio and a goat-associated outbreak in Connecticut. Another success story highlighted Colorado, New York City, Ohio, and Utah all supporting non-foodborne outbreaks. They investigated outbreaks spread by animals, sexual contact, and throughout a community that included individuals experiencing homelessness.

In January 2018, whole genome sequencing (WGS) became the standard subtyping method supported by PulseNet for Listeria isolates. FoodCORE centers prepared for the transition and sequenced 100% of their Listeria isolates in 2018. In 2019, WGS will become the standard subtyping method for Escherichia coli, Shigella, and Salmonella. FoodCORE metrics will measure this transition and the impact of WGS on timeliness and completeness of subtyping as well as cluster and outbreak detection.

To share all of these great successes, FoodCORE staff at CDC and FoodCORE centers presented at several meetings and conferences, including the International Conference on Emerging Infectious Diseases and the Council for State and Territorial Epidemiologists Annual Conference.

Program Performance
Centers report metrics twice a year to document changes resulting from targeted FoodCORE resources. Metrics for Salmonella, Shiga toxin-producing Escherichia coli (STEC), and Listeria (SSL) have been collected since late 2010. Metrics for norovirus, other etiologies, and unknown etiology (NOU) investigations have been collected since 2012. The metrics collected by FoodCORE centers are revised as needed to best meet program goals.

FoodCORE Web Resources
FoodCORE Program Website
https://www.cdc.gov/foodcore/index.html
FoodCORE Success Stories and Highlights
https://www.cdc.gov/foodcore/successes.html
FoodCORE Model Practices
https://www.cdc.gov/foodcore/modelpractices.html
Since Year 6, centers have increased the proportion of *Salmonella* STEC and *Listeria* primary isolates with WGS results.

To evaluate the timeliness and completeness of WGS, FoodCORE centers pilot-tested a set of expanded SSL metrics in Year 6. Centers reported on the expanded metrics in Year 6 and in following years.

From Year 7 to Year 8, FoodCORE centers reduced the time* from *Salmonella*, STEC, and *Listeria* isolate receipt (or recovery) at the public health lab to WGS sequence being shared with the national database.

FoodCORE centers contacted a greater proportion of environmental health, agriculture, regulatory, consumer protection, or food safety program staff for foodborne or point-source investigations in Year 8 than in previous years.

In Year 8, the time* to attempt and complete interviews for *Salmonella*, STEC, and *Listeria* was under 2 days and 4 days, respectively.

FoodCORE centers have demonstrated that targeted investments can improve the completeness and timeliness of outbreak response activities. They have strengthened their outbreak response programs to conduct faster, better, and more complete investigations, to ultimately help stop the spread of enteric diseases.

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