## CDC FoodCORE Year Six Cumulative Metrics Data Norovirus, Other Etiology, and Unknown Etiology (NOU)

Report Period: [January 1, 2016] to [December 31, 2016]

| Performance Metrics: (See associated document for complete language and definitions)                      | Norovirus                               | Other Etiology   | Unknown Etiology |
|---|---|------------------|------------------|
|   | Mean (Range)                            | Mean (Range)     | Mean (Range)     |
| 1a. Number of investigations  | 86.7 (14–185)                           | 23 (1–82)        | 29.4 (1–112)     |
|   | n=10                                    | n=10             | n=10             |
| 1b. Number of foodborne or point-source investigations  | 17.1 (3–48)                             | 12.1 (1–42)      | 6.5 (0–31)       |
|   | n=10                                    | n=10             | n=10             |
| Lc. Number of person-to-person investigations   | 63.6 (0–185)                            | 9.5 (0–40)       | 19.1 (0–107)     |
|   | n=10                                    | n=10             | n=10             |
| 2a.1 Number; Percent of investigations with clinical specimens submitted to any lab                       | 59 (4–160)                              | 19.8 (1–76)      | 9.1 (0-32)       |
|   | 69.5% (27%–100%)                        | 85.4% (54%–100%) | 37.3% (0%-100%)  |
|   | n=10                                    | n=10             | n=10             |
| 2a.2 Number; Percent of investigations with clinical specimens submitted to PHL                           | 42.1 (4–115)                            | 14.5 (1–49)      | 6.9 (0–24)       |
|   | 52% (5%–93%)                            | 59.4% (18%–100%) | 33.1% (0%–100%)  |
|   | n=10                                    | n=10             | n=10             |
| b. Number; Percent of investigations where clinical specimens were tested for GI riruses at PHL           | 41.9 (4-115)                            | 4.6 (0–13)       | 7.4 (1–24)       |
|   | 99.1% (93%-100%)                        | 53.7% (0%–100%)  | 84.7% (22%–100%) |
|   | n=10                                    | n=10             | n=9              |
| b.1 Number; Percent of investigations where specimens were tested for norovirus by T-PCR at PHL           | 45.9 (4–115)                            | 3.9 (0–13)       | 6.6 (0–24)       |
|   | 98.4% (93%–100%)                        | 70.1% (0%–100%)  | 66.7% (0%–100%)  |
|   | n=9                                     | n=10             | n=9              |
| b.1.1 Number; Percent of norovirus investigations with positive specimens sequenced uploaded to CaliciNet | 41.7 (17–86)<br>81.3% (51%–100%)<br>n=6 | n/a              | n/a              |
| 2b.1.1.1 Median days from first norovirus detection via RT-PCR to upload to CaliciNet                     | 3.5 (2–5)<br>n=6                        | n/a              | n/a              |

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|---|---------------------------------------|--------------------------------------|-------------------------------------|
|   | Mean (Range)                          | Mean (Range)                         | Mean (Range)                        |
| 2b.2 Number; Percent of investigations where specimens were tested for other viruses at PHL   | 4.2 (0–17)                            | 2 (0-8)                              | 1.7 (0–7)                           |
|   | 20.7% (0%–100%)                       | 41% (0%-100%)                        | 33.8% (0%–100%)                     |
|   | n=10                                  | n=10                                 | n=9                                 |
| 2c. Number; Percent of investigations where specimens were tested for pathogenic pacteria or their toxins, antigens, or antibodies at PHL | 17.7 (0–66)                           | 10.3 (0–41)                          | 2.6 (0–8)                           |
|   | 51.2% (0%–100%)                       | 59.5% (0%–100%)                      | 68% (0%–100%)                       |
|   | n=10                                  | n=10                                 | n=9                                 |
| c.1 Number; Percent of investigations where specimens were tested using culture-<br>ased diagnostics at PHL                               | 12.7 (0–57)<br>56.5% (0%–100%)<br>n=9 | 9.2 (0–41)<br>74.8% (0%–100%)<br>n=9 | 2.6 (0–8)<br>66.3% (0%–100%)<br>n=8 |
| 2c.2 Number; Percent of investigations where clinical specimens were tested using non-<br>culture-based diagnostics at PHL                | 12.8 (0–52)<br>49.3% (0%–100%)<br>n=8 | 9.4 (0–41)<br>48.9% (0%–100%)<br>n=8 | 1 (0–4)<br>37.5% (0%–100%)<br>n=7   |
| 2d. Number; Percent of investigations where clinical specimens were tested for parasites at PHL   | 4 (0-17)                              | 3.5 (0–10)                           | 0.3 (0–1)                           |
|   | 20.4% (0%-100%)                       | 36.5% (0%–100%)                      | 17.8% (0%–100%)                     |
|   | n=10                                  | n=10                                 | n=9                                 |
| Ba. Number; Percent of foodborne or point-source investigations with exposure assessments conducted                                       | 12.3 (2-39)                           | 9 (1–19)                             | 3.6 (1–7)                           |
|   | 80.4% (29%-100%)                      | 76.3% (13%–100%)                     | 77.7% (23%–100%)                    |
|   | n=10                                  | n=10                                 | n=9                                 |
| Bb. Number; Percent of foodborne or point-source investigations where an analytic epidemiologic study was conducted                       | 6.9 (0–23)                            | 3.6 (0-11)                           | 1.4 (0–3)                           |
|   | 44% (0%–75%)                          | 35.3% (0%-100%)                      | 30.7% (0%–67%)                      |
|   | n=10                                  | n=10                                 | n=9                                 |
| 4. Number; Percent of foodborne or point-source investigations with suspect vehicle/source identified                                     | 2.8 (0-10)                            | 4 (0–17)                             | 0.9 (0–4)                           |
|   | 17.1% (0%-60%)                        | 34.1% (0%–100%)                      | 13.2% (0%–40%)                      |
|   | n=10                                  | n=10                                 | n=9                                 |
| 5. Number; Percent of foodborne or point-source investigations with confirmed vehicle/source identified                                   | 3.2 (0-11)                            | 3 (0–12)                             | 0.6 (0–3)                           |
|   | 22.5% (0%-64%)                        | 34.2% (0%–100%)                      | 10% (0%–43%)                        |
|   | n=10                                  | n=10                                 | n=9                                 |

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|---|------------------|------------------|------------------|
|   | Mean (Range)     | Mean (Range)     | Mean (Range)     |
| 6. Number; Percent of foodborne or point-source investigations with identified source with                                      | n:               |                  | ,                |
| a. Exclusion of ill person(s)   | 5 (0–18)         | 3.1 (0–16)       | 0.6 (0–3)        |
|   | 17.9% (0%–48%)   | 20.5% (0-100%)   | 6.1% (0%–25%)    |
|   | n=8              | n=8              | n=5              |
| b. Remediation or closure   | 4.6 (0–27)       | 3 (0–14)         | 0.6 (0–2)        |
|   | 20.4% (0%–69%)   | 22.4% (0%–100%)  | 10.9% (0%–67%)   |
|   | n=8              | n=8              | n=5              |
| c. Educational campaign   | 2.5 (0–12)       | 2.1 (0–8)        | 1.1 (0-7)        |
|   | 15.7% (0%–75%)   | 10.7% (0%–43%)   | 9.1% (0%-50%)    |
|   | n=8              | n=8              | n=5              |
| d. Media/public messaging   | 1 (0–4)          | 1.4 (0-8)        | 0.4 (0-3)        |
|   | 3.3% (0%–9%)     | 6.3% (0%-19%)    | 1.3% (0%-10%)    |
|   | n=8              | n=8              | n=5              |
| e. Regulatory action (recall, hold)   | 0.8 (0–2)        | 1 (0–2)          | 0.3 (0–1)        |
|   | 6.7% (0%–20%)    | 11.3% (0%–33%)   | 4.5% (0%–33%)    |
|   | n=8              | n=8              | n=5              |
| 7. Number; Percent of foodborne or point-source investigations linked to a common location where an on-site EHA was conducted   | 16.1 (3-45)      | 9.5 (1–37)       | 6 (1–26)         |
|   | 94.1% (75%–100%) | 76.3% (13%–100%) | 87.6% (29%–100%) |
|   | n=10             | n=10             | n=9              |
| 8. Number; Percent of foodborne or point-source investigations where food or environmental sample(s) were collected for testing | 2.2 (0–11)       | 2.2 (1-4)        | 0.6 (0–5)        |
|   | 11.2% (0%–23%)   | 34.2% (7%-100%)  | 1.8% (0%–16%)    |
|   | n=10             | n=10             | n=9              |
| 9. Number; Percent of foodborne or point-source investigations where environmental health partners were contacted               | 15 (2–39)        | 7.6 (1–18)       | 5.8 (1–22)       |
|   | 83.3% (36%–100%) | 73.9% (38%–100%) | 83.1% (14%–100%) |
|   | n=9              | n=9              | n=8              |
| 10. Number; Percent of outbreaks with NORS forms completed  | 68.6 (13-160)    | 21.2 (1–79)      | 24.5 (1–112)     |
|   | 98.5% (92%–100%) | 89.7% (38%–100%) | 92.7% (78%–100%) |
|   | n=10             | n=10             | n=10             |