Surveillance Items of Note:

- Five A/H3 cases at 3 different recruit training centers in late March. Three of the cases were vaccinated more than 14 days prior to illness.

FEBRILE RESPIRATORY ILLNESS CASES:

- Military Recruits: N= 44 pos./78 tested
- CDC-BIDS (Border): N= 36 pos./82 tested
- DoD Beneficiaries: N= 7 pos./34 tested

AGE RECRUIT SURVEILLANCE:

12 of 13 samples collected have completed testing:
- Ft. Leonard Wood (5/5), MCRD San Diego (6/6), and MCRD Parris Island (1/2).
- Two of the six samples tested from MCRD San Diego were positive for NoV GII. Sequencing identified these as strain GII.P16-GII.2 OH16002-Vaals.
- One NoV GI was identified at Ft. Leonard Wood with sequencing underway. All others were negative for Norovirus, Salmonella, Campylobacter, and Shigella.

NHRC Influenza Surveillance 2017-18 Season

- NHRC identified influenza in 28% (742/2678) of samples tested to date this season. The subtype breakdown was: 57% A/H3, 21% B/Yamagata, 18% B/Victoria, and 4% A/H1.
- 215 influenza samples were whole genome sequenced, consisting of 13 H1N1, 103 H3N2, 62 B/Victoria, and 37 B/Yamagata. Sequences were shared with DoD partners and submitted to GenBank.

NOTEWORTHY:

- FRI cases from US-Mexico border area clinics were also tested onsite with the Quidel Sofia™ rapid influenza diagnostic test.
- Results were compared to NHRC PCR results for 862 samples (26% Flu A and 19% Flu B) to determine sensitivity and specificity for the 2017-18 influenza season.
- Sensitivity and specificity were 86% and 98%, respectively, for Flu A and 89% and 93% for Flu B. Negative predictive values were 93% and 96% for Flu A and B, respectively.

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