Ehrlichia chaffeensis (formerly HME)
Surveillance Algorithm

1. Lab created in NCEDSS
2. Request records from Physician
3. Records received
   - Yes: Follow LHD CD investigation policy. Received records after multiple attempts (# attempts defined by LHD Policy)
   - No: Close as Suspect
4. Does the patient have a fever?
   - Yes: Is there laboratory evidence?
     - Yes: Does the laboratory evidence one or more of the following:
       - Positive serum IgG IFA test followed by a second IgG IFA test performed 2-4 weeks later with a 4-fold change in titer
         - Or
         - Positive E. chaffeensis DNA by PCR
           - Or
           - Isolation of E. chaffeensis in culture
             - Or
             - Ehrlichia antigen in a biopsy or autopsy by IHC
               - Yes: Confirmed Event
               - No: Does not Meet
     - No: Does not Meet
   - No: Does not Meet
5. Does the pt have at least one additional symptom: headache, myalgia, anemia, leukopenia, thrombocytopenia, elevated liver enzymes.
   - Yes: Is the laboratory evidence one or more of the following:
     - Serologic Evidence of IgG antibody by IFA,
       - Or
       - Identification of morulae in the cytoplasm of monocytes or macrophages
     - Yes: Probable Event
     - No: Does not Meet
   - No: Does not Meet

STOP
Does not Meet
Criteria