**North Carolina Lyme Disease Surveillance Algorithm**

- **Lab created in NCEDSS**
  - **Request records from Physician**
    - **Records received**
      - **No**
        - Follow LHD CD investigation policy. Received records after multiple attempts (# attempts defined by LHD Policy)
      - **Yes**
        - **Physician Diagnosed EM rash >5cm**
          - **No**
            - Close as Suspect
          - **Yes**
            - **Exposure in High Incidence State**
              - (Currently not North Carolina)
                - **Yes**
                  - **Confirmed Event**
                - **No**
                  - **Suspect Event**

- **Did the physician diagnose Lyme disease?**
  - **No**
    - Does the patient have late clinical manifestations?
      - **No**
        - Does Not Meet
      - **Yes**
        - **Is there laboratory evidence?**
          - **No**
            - Does Not Meet
          - **Yes**
            - **Is the laboratory evidence one or more of the following:**
              - • Positive IgG Western Blot in serum
              - Or
              - • Isolated culture of B. burgdorferi
              - Or
              - • Cerebrospinal fluid (CSF) EIA positive or CSF IFA titer higher than Serum IFA titer
            - **Yes**
              - **Confirmed Event**
            - **No**
              - **Probable Event**

- **Is the laboratory evidence one or more of the following:**
  - • Positive EIA and positive IgM Western Blot in serum
    - Or
    - • Positive IgG Western Blot in serum
    - Or
    - • Isolated culture of B. burgdorferi
    - Or
    - • Cerebrospinal fluid (CSF) EIA positive or CSF IFA titer higher than Serum IFA titer
  - **Yes**
    - **Confirmed Event**
  - **No**
    - **Does Not Meet**

- **Is the laboratory evidence one or more of the following:**
  - • Positive EIA and positive IgM Western Blot in serum within 30 days of illness onset
    - Or
    - • Positive IgG Western Blot in serum
    - Or
    - • Isolated culture of B. burgdorferi
  - **Yes**
    - **Confirmed Event**
  - **No**
    - **Does Not Meet**

* Per CDC high incidence states are those with 10 confirmed cases per 100,000 population. To find the most current list go to: [https://www.cdc.gov/lyme/stats/tables.html](https://www.cdc.gov/lyme/stats/tables.html)