Isolation of *E. coli* from a clinical specimen (culture)?

- Yes
  - Is the isolate *E. coli* O157?
    - Yes
      - Is the isolate *E. coli* O157:H7?
        - Yes: CONFIRMED
        - No
    - No
  - No: Detection of Shiga toxin or Shiga toxin genes?
    - Yes
      - Is the isolate a different serotype* of *E. coli* with Shiga toxin or Shiga toxin genes?
        - Yes: Diagnosed with HUS or TTP?
          - Yes
            - Diarrhea and/or abdominal cramps OR diagnosed HUS or TTP? Yes: PROBABLE
            - No: SUSPECTED
          - No: Diagnosed with HUS or TTP?
            - Yes
              - Diarrhea and/or abdominal cramps? Yes: PROBABLE
              - No: NOT A CASE
            - No:
    - No
  - Yes: Detection of *E. coli* O157 or STEC/EHEC using CIDT (PCR)? OR Detection of Shiga toxin or Shiga toxin genes with no known isolation of *Shigella*? OR Identification of an elevated antibody titer against a known Shiga toxin-producing serogroup of *E. coli*?
    - Yes: Diagnosed with HUS or TTP?
      - Yes
        - Diarrhea and/or abdominal cramps? Yes: PROBABLE
        - No: SUSPECTED
      - No: NOT A CASE
    - No: Diagnosed with HUS or TTP?
      - Yes
        - Diarrhea and/or abdominal cramps? Yes: PROBABLE
        - No: NOT A CASE
      - No:

*Examples of other serotypes include *E. coli* O111, O45, O113, etc.

**Shiga Toxin-producing E. coli (STEC) Case Ascertainment Algorithm**

**Abbreviations**

- STEC: Shiga toxin-producing *E. coli*
- HUS: Hemolytic Uremic Syndrome
- TTP: Thrombocytopenic purpura
- EHEC: Enterohemorrhagic *E. coli*