North Carolina
Anaplasma phagocytophilum
(formerly HGA)
Surveillance Algorithm

Lab created in NCEDSS

Request records from Physician

Records received

Follow LHD CD investigation policy. Received records after multiple attempts (# attempts defined by LHD Policy)

Close as Suspect

Does the patient have a fever?

No

Yes

Is there laboratory evidence?

Yes

No

Does the patient have at least one additional symptom: headache, myalgia, anemia, leukopenia, thrombocytopenia, elevated liver enzymes.

No

Yes

Is 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

• Positive A. phagocytophilum DNA by PCR

• Isolation of A. phagocytophilum in culture

• anaplasmal antigen in a biopsy/autopsy by IHC

Yes

No

STOP Does not Meet Criteria

Confirmed Event

Probable Event

Does Not Meet

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 neutrophils or eosinophils

Yes

No