

# Anaplasmosis

## **Definition:**

Anaplasmosis is an infection caused by the bacterium *Anaplasma phagocytophilum*. It is most commonly transmitted by the bite of an infected deer tick (*Ixodes scapularis*).

### Signs and symptoms:

Symptoms of anaplasmosis can range from mild to very severe and may include: fever, headache, muscle pain, malaise, chills, nausea, abdominal pain, cough, and confusion. Severe symptoms may include: difficulty breathing, hemorrhage, renal failure, or neurological problems. It can be fatal if not treated correctly. People who are immunocompromised or elderly are at higher risk for severe disease.

### **Transmission:**

Anaplasmosis is primarily transmitted to a person through the bite of an infected deer tick; this tick is endemic throughout Maine. Rarely, it can also be transmitted by receiving blood transfusions from an infected donor.

### **Diagnosis:**

Anaplasmosis is diagnosed by clinical symptoms and laboratory tests. A blood test is necessary for confirmation. Co-infections with other tickborne diseases may occur and should be considered.

### **Role of the School Nurse:**

Prevention

- Provide education on prevention efforts including: wearing protective clothing, using an EPAapproved repellent, using caution in tick-infested areas, and performing daily tick checks.
- Encourage the use of EPA-approved repellents when outside (following local policy guidelines), and always performing a tick check when returning indoors.
  - o School nurses can apply repellent with parental permission
- If a tick is found, the school nurse should remove the tick using tweezers or a tick spoon.
  - Tick identification cards are available at: <u>www.maine.gov/dhhs/order</u>.
  - Testing of the tick is not recommended. Whole ticks in safe containers may be given to parents.

## **Treatment Recommendations**

- If symptoms are noted, the child should be referred to his or her primary care provider for treatment.
- Antibiotic treatments are available and are usually prescribed for 10 14 days.

#### **Exclusions**

- There is no need to exclude students from school for anaplasmosis.
- Educational modifications may be warranted in children with a positive diagnosis.

## **Reporting Requirements**

• Anaplasmosis is reportable within 48 hours of recognition or strong suspicion of illness.

## **Resources:**

- Maine CDC Anaplasmosis website (including fact sheet): <u>www.maine.gov/dhhs/anaplasmosis</u>
- Tickborne Disease Manual for Healthcare Providers: <u>www.cdc.gov/ticks/hcp/data-research/tickborne-disease-reference-guide</u>
- Tick identification and testing: <u>www.ticks.umaine.edu</u>
- Federal CDC Anaplasmosis website: <u>www.cdc.gov/anaplasmosis/</u>