**Rocky Mountain Spotted Fever (RMSF)**

**Definition:**

Rocky Mountain Spotted Fever (RMSF) is the most severe tick-borne rickettsial illness in the United States*.* It is caused by infection with the bacterial organism *Rickettsia rickettsii*.

**Signs and symptoms:**

The initial symptoms consist of fever, nausea, vomiting, muscle pain, lack of appetite, and severe headache. Rash, abdominal pain, joint pain, and diarrhea may develop later. This can be a severe, life-threatening illness and most patients are hospitalized.

**Transmission:**

The organism that causes RMSF is transmitted to humans by the bite of an infected tick. The American dog tick, brown dog tick and Rocky Mountain wood tick transmit RMSF in the United States. RMSF is rarely seen in Maine and over half the reported cases come from five states (North Carolina, Oklahoma, Arkansas, Tennessee, and Missouri).

**Diagnosis:**

RMSF is diagnosed through a combination of clinical signs and symptoms as well as laboratory tests.

**Role of the School Nurse:**

 **Prevention**

* Provide education to students and staff regarding prevention efforts including: Wearing protective clothing, using insect repellent, using caution in tick infested areas, and performing daily tick checks.
* Encourage the use of insect repellents when outside (following local policy guidelines). School nurses can apply insect repellant with parental permission.
* Encourage tick checks when returning indoors at school.
* If a tick is found, the school nurse should remove the tick using tweezers or a tick spoon.
* Identification of the tick may be useful. Tick cards are available for identification at: <http://www.maine.gov/dhhs/boh/ddc/epi/vector-borne/posters/index.shtml>
* Whole ticks, placed in a sealed container, may be given to the parents.
* Testing of the tick is not recommended.

 **Treatment Recommendations**

* Treatment with antibiotics, usually doxycycline, should be initiated based on clinical and exposure information. Treatment should not be delayed to wait for laboratory confirmation.

 **Exclusions**

* No exclusions are recommended for students or staff with RMSF.

 **Reporting Requirements**

* RMSF is a reportable disease – report to Maine CDC at 1-800-821-5821.

**Resources:**

* Maine CDC Rocky Mountain Spotted Fever website

<http://www.maine.gov/dhhs/mecdc/infectious-disease/epi/vector-borne/rmsf/index.html>

* Tickborne Diseases of the United States: A Reference Manual for Healthcare Providers

<https://www.cdc.gov/lyme/resources/TickborneDiseases.pdf>

* Federal CDC Rocky Mountain Spotted Fever website <http://www.cdc.gov/rmsf/>
* Tick Submission for Identification to the University of Maine <http://extension.umaine.edu/ipm/tickid/>