eradicate the insects. Suggestions for minimizing exposure when traveling include inspecting the mattresses for signs of infestation; encasing mattress covers may be helpful. Thorough washing of all clothing and bed linens may also help minimize exposure. The use of pesticides and various other control measures is discussed in Doggett, Dwyer, Peñas, and colleagues (2012).

Systemic Disorders Related to Skin Lesions

Rickettsial Infections

The organisms responsible for a number of disorders are transmitted to human beings via arthropods (Table 6-7). Mammals become infected only through the bites of infected lice, fleas, ticks, and mites—all of which serve as both infectors and reservoirs. Rickettsiae are intracellular parasites, similar in size to bacteria, that inhabit the alimentary tract of a wide range of natural hosts. Rickettsial diseases are more common in temperate and tropical climates where humans live in association with arthropods. Infection in humans is incidental (except epidemic typhus) and not necessary for the survival of the rickettsial species. However, after the organism invades a human, it causes a disease that varies in intensity from a benign, self-limiting illness to a disease that is fulminating and fatal.

TABLE 6-7Conditions Caused By Rickettsiae

Disorder, Organism, and Host	Manifestations	Management	Comments
Rocky	Gradual onset: Fever, malaise,	Control:	Usually self-limiting in
Mountain	anorexia, myalgia	Protection from	children
spotted fever:	Abrupt onset: Rapid	tick bite by	Onset in children may
Rickettsia	temperature elevation,	wearing proper	resemble that of any
rickettsii	chills, vomiting, myalgia,	apparel, tick	infectious disease
Arthropod: Tick	severe headache	repellent	Severe disease rare in
Transmission:	Maculopapular or petechial	Tetracycline or	children
Tick	rash primarily on	chloramphenicol	Children and dogs
Mammal	extremities (ankles and	Vigorous	should be inspected
source: Wild	wrists) but may spread to	supportive	regularly if they play
rodents; dogs	other areas,	therapy	in wooded areas