Circulatory and Lymphatic System
Case Study 2

James has begged his mother for a pet for several months now. Since she and her son live in an apartment, a dog or cat is out of the question. However, she has recently thought about a smaller animal that he could take care of, like a guinea pig or turtle. They make a visit to the pet store to look for a future member of their family and decide on a rodent. A week later, James has developed a fever, is vomiting, and is suffering from severe body pain. His mother thinks it is the flu until he develops a rash on his hands and feet. At that point, they make a visit to the emergency room, and James is admitted to the hospital. After a round of penicillin, he makes a full recovery. His mother is very relieved at the outcome, especially after reading about a young boy with the same infection who did not survive.

1. Diagnosis –

2. Causative agent –

3. How did James contract this disease? What is the reservoir for this infection?

4. What is another antibiotic that is used to treat this infection?