

# A Case of Pharyngitis

by

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## Case Presentation

Jason Hornbuckle is not a happy little boy. For the past 12 hours he has complained of pain when he swallows, has a headache, and has vomited twice. His mother decides to take the seven-year-old to his pediatrician. Upon examining Jason, the doctor finds that Jason's pharynx, tonsils, and uvula are swollen and erythematous (red) and his tonsils are studded with white areas of exudate. He is febrile (temperature 40.3 degrees centigrade) with tender, bilateral, cervical lymphadenopathy (enlarged lymph nodes).

A Complete Blood Count (CBC) performed on a sample of Jason's blood reveals that he has a leukocytosis (increased number of WBCs) due to a neutrophilia (increased number of neutrophils).

Jason is diagnosed as having acute bacterial pharyngitis and treated with phenoxymethyl penicillin for five days. A throat swab taken before starting antibiotics grows beta-hemolytic streptococci (Group A). After three days of treatment, Jason's temperature has returned to normal and he has made an uneventful recovery.



## Questions

1. The pediatrician described Jason's pharynx, uvula, and tonsils as swollen and red. What are the *four cardinal signs of inflammation*, and how does each relate to changes in the blood vessels at a site of inflammation?
2. The exudate on Jason's tonsils consisted primarily of neutrophils, and the CBC that was performed indicated that the number of neutrophils in his circulation was increased. What role do neutrophils play in the resolution of a bacterial infection? In the course of your answer explain terms such as *adhesion molecules*, *diapedesis*, *chemotaxis*, *opsonization*, and *phagocytosis*.
3. Jason's physician noted that Jason's cervical lymph nodes were enlarged, a condition referred to as lymphadenopathy. Describe the structure and function(s) of lymph nodes, and list the other organs and tissues that comprise the lymphatic system.
4. Describe the anatomic location and function of tonsils.
5. What is the mechanism by which fever is induced and what are its benefits in terms of combating an infection?
6. What is the mechanism by which the number of circulating white blood cells is increased?

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### **Table of Contents A Case Of Pharyngitis By David F Dean Answers**

1. Understanding the eBook A Case Of Pharyngitis By David F Dean Answers
  - The Rise of Digital Reading A Case Of Pharyngitis By David F Dean Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying A Case Of Pharyngitis By David F Dean Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an A Case Of Pharyngitis By David F Dean Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from A Case Of Pharyngitis By David F Dean Answers
  - Personalized Recommendations

- A Case Of Pharyngitis By David F Dean Answers User Reviews and Ratings
- A Case Of Pharyngitis By David F Dean Answers and Bestseller Lists
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  - A Case Of Pharyngitis By David F Dean Answers Public Domain eBooks
  - A Case Of Pharyngitis By David F Dean Answers eBook Subscription Services
  - A Case Of Pharyngitis By David F Dean Answers Budget-Friendly Options
- 6. Navigating A Case Of Pharyngitis By David F Dean Answers eBook Formats
  - ePub, PDF, MOBI, and More
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  - A Case Of Pharyngitis By David F Dean Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of A Case Of Pharyngitis By David F Dean Answers
  - Highlighting and Note-Taking A Case Of Pharyngitis By David F Dean Answers
  - Interactive Elements A Case Of Pharyngitis By David F Dean Answers
- 8. Staying Engaged with A Case Of Pharyngitis By David F Dean Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers A Case Of Pharyngitis By David F Dean Answers
- 9. Balancing eBooks and Physical Books A Case Of Pharyngitis By David F Dean Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection A Case Of Pharyngitis By David F Dean Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine A Case Of Pharyngitis By David F Dean Answers
  - Setting Reading Goals A Case Of Pharyngitis By David F Dean Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of A Case Of Pharyngitis By David F Dean Answers
  - Fact-Checking eBook Content of A Case Of Pharyngitis By David F Dean Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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