

**Axis College Material**

**Appendix F**

Answer the following two case studies. Each patient's history referred to is available for further evaluation at a medical system website. Define characteristics of the disease each patient is suffering from by answering the questions associated with each case study. Answer if you can from text.

**Case Study 1**

Name	Michael J. Smith
Age	45
Gender	Male
Occupation	Software Engineer

Medical History None

Case Study 1  
 A 45-year-old male, Michael J. Smith, presents with a 2-week history of fatigue, weight loss, and decreased appetite. He reports feeling "run down" and has noticed a slight increase in heart rate. There is no history of trauma, recent travel, or exposure to sick contacts. He is currently on no medications.

Case Study 2

Medical history: The patient reports a long-standing history of hypertension and type 2 diabetes. He has been taking lisinopril 10 mg daily and metformin 500 mg twice daily for several years. He reports feeling "run down" and has noticed a slight increase in heart rate. There is no history of trauma, recent travel, or exposure to sick contacts. He is currently on no medications.

History:  
 Patient Complaints: Fatigue

Answer the following questions:

1. What conditions could explain the patient's symptoms?

There is no history of recent weight loss, fever, or night sweats. The patient reports feeling "run down" and has noticed a slight increase in heart rate. There is no history of trauma, recent travel, or exposure to sick contacts.

2. What structural and functional of the nervous system are affected by multiple sclerosis?

A multiple sclerosis patient who reports and acts as an insulator to reduce the direction and velocity of the nerve impulse transmission. The degeneration of myelin sheath in multiple sclerosis reduces the velocity of the impulse along the axon.

3. What are the signs and symptoms of stroke?

Stroke: There is no specific treatment for multiple sclerosis. The most effective treatment for long-term physical therapy includes the patient in an individualized exercise program.