1

# Axia College Material

## Appendix F

Review the following two case studies. Each patient is being referred to a specialist for further evaluation of a nervous system disorder. Outline characteristics of the disease each patient is suffering from by answering the questions associated with each case study. Answer in your own words.

**Case Study 1**

| | | | |
|---|---|---|---|
| Name: | Martin Gargantilla | | |
| Age: 41 | Gender: Male | Date: | 01/01/2006 |
| Chief Complaint: | Gargantilla | Date: | 01/01/2006 |

Innovative Medical Plans

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Dear Ray,

Martin visited my office yesterday complaining of numbness in his right leg and foot. He has also been experiencing muscle weakness and mild depression. I noticed a delay in his visual response in both eyes. I have referred Martin to your facility because of possible multiple sclerosis, and I am requesting an MRI of the brain and spine. Please fax the results to me as soon as possible.

Regards,
Hudson Gargantilla, M.D.

Answer the following questions:

1. What could have caused Martin's disease?

There is no certain cause of multiple sclerosis. It has been attributed to various viruses, immunological reactions to a virus, genetic mutations and heredity even though it is an autoimmune disease.

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

A myelin sheath protects the neurons and acts as an insulator to insure the direction and velocity of the nerve impulse transmission. The degeneration of nervous tissue in multiple sclerosis involves the erosion of the myelin sheath due to chronic inflammation.

3. What can be done to treat this disease?

To date, there is no specific treatment for multiple sclerosis that works effectively for long periods. Physical therapy enables the person to use controllable muscles. Muscle relaxants and narcotic