

Flex Therapist CEUs

Multiple Sclerosis

1. What is the primary characteristic that differentiates Primary Progressive Multiple Sclerosis (PPMS) from Relapsing-Remitting Multiple Sclerosis (RRMS)?

- A. PPMS has distinct relapses and remissions, while RRMS has a continuous progression from onset.
- B. PPMS is driven by inflammation, whereas RRMS is driven by neurodegeneration.
- C. PPMS involves a continuous, gradual worsening of neurological function from the onset, while RRMS has periods of relapse and remission.
- D. PPMS primarily affects young adults, while RRMS often affects older adults.

2. Which exercise intervention is most likely to improve the quality of life in patients with MS?

- A. High-intensity interval training to increase muscle hypertrophy.
- B. Aerobic exercise that enhances cardiovascular endurance.
- C. Isometric exercises to improve muscle bulk.
- D. Swimming based solely on individual preference with no structured routine.

3. In the context of MS, what role do astrocytes predominantly play when it comes to repairing damaged CNS tissue?

- A. Astrocytes regenerate the myelin sheath effectively around damaged axons.
- B. Astrocytes primarily create scar tissue (sclerosis) in damaged areas, which can affect nerve signal transmission.
- C. Astrocytes remove damaged axons through phagocytosis.
- D. Astrocytes facilitate remyelination through the release of neurotrophic factors.

4. Which cognitive impact is most commonly associated with worsening symptoms in MS over time?

- A. Enhanced problem-solving skills.
- B. Improved information processing speed.
- C. Decreased memory retention and concentration difficulties.
- D. Increased verbal fluency and recall abilities.

5. What is a key factor in diagnosing Relapsing-Remitting MS (RRMS) as opposed to Progressive-Relapsing MS (PRMS)?

- A. RRMS patients never experience complete recovery between relapses.
- B. PRMS involves a steady progression of disability from the start, with intermittent relapses.

- C. RRMS is characterized by a continuous decline in function with no distinct relapses.
- D. PRMS symptoms always improve completely between relapses.

6. Which of the following is a characteristic that differentiates a true relapse from a pseudo-relapse in multiple sclerosis?

- A. True relapses involve new CNS lesions.
- B. True relapses are triggered by factors like heat or illness.
- C. Pseudo-relapses involve new CNS lesions.
- D. Pseudo-relapses require hospitalization.

7. What is a possible consequence of worsening MS symptoms on brain structure?

- A. Increased formation of synaptic connections.
- B. Reduced inflammation.
- C. Accumulation of lesions in the CNS.
- D. Enhanced cognitive function.

8. Which of the following treatments is typically used to manage severe relapses that do not respond to corticosteroids in MS patients?

- A. Plasma exchange
- B. NSAIDs
- C. Antidepressants
- D. Gabapentin

9. How does regular exercise influence MS-related symptoms?

- A. Increases fatigue and cognitive decline.
- B. Improves endurance, strength, and flexibility.
- C. Triggers new CNS lesions.
- D. Makes heat sensitivity worse.

10. Using the McDonald Criteria, what is required for diagnosing MS in a patient with one clinical attack and evidence of one lesion?

- A. Only dissemination in space (DIS) is required.
- B. Only dissemination in time (DIT) is required.
- C. Both DIS and DIT are required.
- D. No further evidence is required.

11. Which assessment tool is utilized to measure the resistance felt by a clinician when passively moving a patient's limb through its range of motion to estimate spasticity severity?

- A. Berg Balance Scale
- B. Functional Independence Measure
- C. Modified Ashworth Scale
- D. Fatigue Severity Scale

12. In the context of multiple sclerosis (MS), what is the primary cause of foot drop observed during gait analysis?

- A. Weakness in the hip flexor muscles
- B. Weakness of the dorsiflexor muscles
- C. Weakness in the ankle plantarflexor muscles
- D. Weakness of the quadriceps muscles

13. When using the Timed Up and Go (TUG) test, which score indicates a high risk of falling?

- A. Less than 10 seconds
- B. 10 to 12 seconds
- C. 13 to 14 seconds
- D. 15 seconds or more

14. How does regular exercise benefit individuals with multiple sclerosis in terms of neuroplasticity?

- A. By preventing muscle atrophy and promoting muscle growth
- B. By reducing joint stiffness and improving flexibility
- C. By enhancing the brain's ability to form new neural connections
- D. By lowering the risk of cardiovascular disease

15. What assessment tool would a therapist likely use to evaluate the impact of multiple sclerosis on a patient's physical and psychological well-being over the past two weeks?

- A. Modified Ashworth Scale
- B. Multiple Sclerosis Quality of Life-54
- C. Fatigue Severity Scale
- D. Multiple Sclerosis Impact Scale (MSIS-29)

16. When designing an exercise program for individuals with Multiple Sclerosis (MS), it's important to consider:

- A. Starting with high-intensity exercises to build endurance quickly
- B. The individual's specific symptoms, such as fatigue and heat sensitivity
- C. Focusing exclusively on aerobic exercises to improve cardiovascular health
- D. Avoiding strength training to prevent muscle fatigue

17. Why is it crucial to include a warm-up and cool-down in the exercise regimen for people with MS?

- A. It helps to maintain cardiovascular fitness and endurance.
- B. It prepares the body for exercise and promotes recovery, reducing muscle stiffness and aiding recovery.
- C. It ensures a high-intensity workout and increases muscle mass quickly.
- D. It diminishes the need for adaptive equipment during workouts.

18. Which approach best describes the methodology for safely progressing exercise intensity in individuals with MS?

- A. Start with moderate intensity and increase rapidly to build muscle strength quickly
- B. Begin at a comfortable pace and gradually increase duration and intensity based on individual comfort levels and symptom management
- C. Engage in high-impact aerobic activities from the beginning to gauge endurance levels
- D. Avoid any progression in intensity to prevent symptom exacerbation

19. What are the benefits of combined endurance and resistance training for patients with MS?

- A. It solely focuses on enhancing muscle mass and reducing the risk of falls
- B. It primarily improves mood and mental well-being through the release of endorphins
- C. It integrates cardiovascular health with muscle function improvement, enhancing overall physical well-being and participation in daily activities
- D. It rapidly enhances muscle strength without the need for professional assistance

20. How should flexibility training be adapted for individuals with MS?

- A. Focus on high-intensity stretching to improve joint flexibility rapidly
- B. Avoid stretching muscles affected by spasticity to prevent injury
- C. Utilize static and dynamic stretching techniques to improve range of motion, incorporating activities like yoga and Pilates
- D. Skip any forms of flexibility training as it doesn't significantly impact physical function

21. Which type of muscle fiber adaptation is most likely to occur as a result of continuous cardiovascular exercise in individuals with multiple sclerosis?

- A. Shift toward more oxidative muscle fibers like type I fibers
- B. Increased proportion of glycolytic muscle fibers like type IIb fibers
- C. Transition from type IIa to type IIx muscle fibers
- D. Reduction in mitochondrial density within muscle fibers

22. How does continuous cardiovascular exercise contribute to overall physical function for individuals with multiple sclerosis?

- A. By significantly increasing muscle mass and reducing fat
- B. By shifting muscle fibers to glycolytic types for quick energy bursts
- C. By enhancing muscle contractile properties and improving endurance
- D. By reducing muscle hypertrophy and leading to muscle atrophy

23. In which way can Functional Electrical Stimulation (FES) improve mobility in individuals with MS?

- A. By inhibiting muscle contractions to reduce overuse injuries
- B. By activating muscles that do not respond adequately due to neurological impairments
- C. By providing continuous passive motion without muscle activation
- D. By primarily focusing on respiratory muscle strength

24. What modifications might be recommended for a patient with multiple sclerosis in the early stages to improve safety and independence at home?

- A. Installing non-slip mats and grab bars in the shower
- B. Introducing power wheelchairs with custom seating
- C. Utilizing mechanical lifts for bed and chair transfers
- D. Implementing voice-activated home automation systems

25. What benefit does incorporating Tai Chi provide for individuals with multiple sclerosis?

- A. Enhances cardiovascular fitness through high-intensity movements
- B. Strengthens upper body muscles through rapid movements
- C. Promotes relaxation and improves balance through slow, controlled movements
- D. Increases muscle mass primarily in the lower limbs

26. What role does a dietitian play in managing MS symptoms?

- A. Suggesting modified food textures or nutrient-dense, easy-to-swallow options to address difficulty swallowing.
- B. Providing exercise regimens to improve strength and flexibility.
- C. Administering medications to control bladder dysfunction.
- D. Conducting assessments to determine cognitive impairments.

27. Which of the following symptoms are commonly addressed by urologists managing MS patients?

- A. Memory loss and attention difficulties.
- B. Lower extremity spasticity and muscle weakness.

- C. Urgency and urinary retention.
- D. Fatigue and balance issues.

28. How does involving a multidisciplinary healthcare team benefit MS patients?

- A. It ensures the patient receives a broad range of perspectives but may complicate decision-making.
- B. It makes it easier for each specialist to work in isolation.
- C. It addresses the full spectrum of the patient's needs through collaborative care.
- D. It primarily focuses on the patient's physical symptoms rather than their cognitive and emotional needs.

29. How can exercise affect MS patients' quality of life?

- A. It primarily improves cognitive function and memory.
- B. It enhances endurance, strength, and flexibility, thus improving overall quality of life.
- C. It is mainly used to manage bladder dysfunction.
- D. It only benefits flexibility without impacting strength or endurance.

30. What assessment tools are essential for evaluating balance and mobility in MS patients?

- A. Berg Balance Scale, Mini-Mental State Examination, and 6-Minute Walk Test.
- B. Timed Up and Go (TUG) Test, Berg Balance Scale, and 6-Minute Walk Test.
- C. Timed Up and Go (TUG) Test, Mini-Mental State Examination, and Timed 25-Foot Walk Test.
- D. Berg Balance Scale, Timed 25-Foot Walk Test, and 6-Minute Walk Test.

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