



### *Examination*

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## *Exam Questions*

**1. Which type of stroke is caused by sudden occlusion of a blood vessel resulting in an almost immediate loss of oxygen and glucose to the cerebral tissue?**

- a. hemorrhagic
- b. embolic
- c. occlusive
- d. cardiac

**2. According to Muir on 2007, the amount of permanent damage depends on all of the following factors except:**

- a. the degree of ischemia
- b. capability of brain to recover and repair itself
- c. hand dominance
- d. duration of ischemia

**3. Only one drug is approved for clinical use for the thrombolytic treatment of acute ischemic stroke in the U.S. This drug is called:**

- a. Aspirin
- b. Coumadin
- c. Intravenous recombinant tissue plasminogen activator
- d. reactive oxygen species

**4. The brain has the ability to change its structure and function during development, learning and pathology. This phenomenon is called:**

- a. brain plasticity
- b. spontaneous behavioral recovery
- c. brain reorganization
- d. ischemia/ reperfusion

**5. When do most spontaneous recovery tend to occur after stroke onset?**

- a. 1 month
- b. 2 months
- c. 3 months
- d. 6 months

**6. Predictors of poor functional outcome after stroke include:**

- a. coma at onset
- b. incontinence of bowel and bladder 2 days after stroke
- c. no motor return within 1 week
- d. no previous history of stroke

**7. The behavioral improvement seen in the weeks after a stroke is supported by reorganization of central nervous system elements that survived the stroke. These include all of the following except:**

- a. increased activity in the contralesional hemisphere
- b. somatotrophic shifts within intact cortical regions
- c. increased activity in regions distant to but connected to the stroke zone
- d. re-establishment of the dendritic spine synapses

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**8. What term is defined by the patient's inability to perform activities of daily living and maintain social relationships?**

- a. impairment
- b. disease
- c. disability
- d. handicapped

**9. An intervention designed to improve awareness of the alignment and position of the body in relationship to gravity, center of mass and support is called:**

- a. gait activities
- b. postural awareness training
- c. motor learning
- d. prefunctional activities

**10. This type of intervention is based on the idea of overcoming learned non-use of the affected limb after stroke:**

- a. constraint induced movement therapy
- b. repetition of movement
- c. balance control
- d. motor learning strategy

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**11. The classic design of constraint induced movement therapy involved massed practice 6 hours/day for 2 weeks and the use of a restraining device. How long should the patient wear the restraining device?**

- a. 90% of waking time
- b. 50% of waking time
- c. 100% of waking time
- d. during therapy session 6 hours/day

**12. Which objective exam rates motor capacity on the International Classification of Functioning, Disability and Health level of mobility in activities and participation?**

- a. Fugl-Meyer
- b. Modified Ashworth Scale
- c. Action Research Arm Test
- d. Motor Assessment Scale

**13. A person with (R) brain stroke may have distinctive problems that may limit success with rehabilitation. These include:**

- a. difficulty with spatial perceptual tasks
- b. inability to solve problems
- c. easily angered and frustrated
- d. impaired retention of information

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**14. Massed practice involves repeatedly attempting to move and use the affected arm and hand. Shaping is particularly important in the management of patients with less movement ability. Shaping involves all of the following except:**

- a. selecting tasks to address motor deficits
- b. carrying out parts of a movement sequence they cannot complete
- c. providing verbal feedback only if big improvements are noted during task performance
- d. tailoring tasks to an individual patient

**15. Balance retraining is an important part of rehabilitation after stroke. In terms of percentage, how much asymmetry was noted in weight bearing post stroke?**

- a. 17%
- b. 27%
- c. 10%
- d. 20%

**16. Which type of stroke intervention requires internal stimulation of one's own body in the absence of overt execution?**

- a. neuromuscular electrical stimulation
- b. limb loading
- c. body weight system treadmill and overground ambulation
- d. mental practice with motor imagery

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**17. In terms of non-invasive brain stimulation, which type delivers a strong, brief electrical current through an insulated wire coil placed on the skull?**

- a. transcranial magnetic stimulation
- b. transcutaneous electrical nerve stimulation
- c. functional electrical stimulation
- d. transcranial direct current stimulation

**18. This phenomenon is defined as the process whereby the cortex changes in response to experience or the environment.**

- a. cortical plasticity
- b. motor training
- c. mental practice
- d. brain stimulation

**19. Motor learning will lead first to strengthening of existing neural pathways, and second, to new functional or structural changes. What must be present to promote cortical plasticity?**

- a. active limb movement
- b. skill learning
- c. cortical excitability
- d. cortical plasticity

**20. According to Ahmed in 2003, which instrument measures impairment and disability in people with stroke? It is independent from a treatment philosophy.**

- a. FIM
- b. Barthel
- c. STREAM
- d. Bobath

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## *Answer sheet*

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Profession: \_\_\_\_\_

License Number: \_\_\_\_\_

Date: \_\_\_\_\_

E-mail Address (optional): \_\_\_\_\_

Exam:

1.	a	b	c	d
2.	a	b	c	d
3.	a	b	c	d
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5.	a	b	c	d
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16.	a	b	c	d
17.	a	b	c	d
18.	a	b	c	d
19.	a	b	c	d
20.	a	b	c	d



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Course Start Time: \_\_\_\_\_ Course End Time: \_\_\_\_\_

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Please initial to indicate that you are the individual who read the book and completed the test.

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Content matched stated objectives 5 4 3 2 1

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Objective 3 5 4 3 2 1

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Objective 5 5 4 3 2 1

What was the most beneficial part of the program? What was the least beneficial part of the program?

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