Flex Therapist CEUs

Biofeedback in Rehabilitation

Background

- 1. All of the following physiological systems of the body can be measured to provide biofeedback, except:
- A. The neuromuscular system
- B. The skeletal system
- C. The respiratory system
- D. The cardiovascular system
- 2. Biomechanical biofeedback involves measurements of:
- A. Movement
- **B.** Postural control
- C. Force
- D. All of the above

Physiological biofeedback

- 3. Electromyography biofeedback can be used to either increase activity in weak or paretic muscle or it can be used to facilitate a reduction in tone in a spastic one.
- A. True
- B. False
- 4. Real-time ultrasound imaging biofeedback is capable of giving immediate real-time visual feedback of muscle activity by allowing the user to directly see the muscle changing shape/length on a display.
- A. True
- B. False

Biomechanical biofeedback

- 5. All of the following are true pertaining to inertial based sensing biofeedback, except for:
- A. Young participants were able to react to the biofeedback while walking and performing a dual task at the same time.
- B. The elderly reduced their trunk sway with biofeedback while walking normally.
- C. When a cognitive or a motor task was added, the elderly were equally capable as the young participants in reacting to the biofeedback and reducing truck sway.
- D. All of the above are true.
- 6. Force plate systems measure the ground reaction force generated by the body and can be used to give feedback on:
- A. Balance
- B. Movement
- C. Gait
- D. All of the above
- 7. When investigating the effects of using a video camera to provide visual feedback to participants with winged scapula during a push up exercise, visual biofeedback resulted in decreased activity of the serratus anterior muscle and increased activity of the upper trapezius muscle.
- A. True
- B. False
- 8. All of the following are true for video game-based exercises, except for:
- A. Video game-based biofeedback is by far the most popular form of biofeedback.
- B. Center of pressure biofeedback controlled by video game-based exercises could improve dynamic balance control in cases of various neurological disorders.
- C. Center of pressure-controlled video game-based exercise regimes motivate subjects to increase their practice volume and attention span during training.
- D. Interacting with a game incorporating simple visual feedback results in improved exercise accuracy compared to performing the exercise from memory or with limited feedback in the form of an instructional video demonstration.

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