Benefits of Exercise on Mind Function

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According to the Centers for Disease Control and Prevention (CDC), 50 percent of U.S. adults do not engage in the recommended levels of physical activity (CDC, 2012). Regular physical exercise is evidenced to provide benefits for both physical and mental health, as well as provide protective factors that reduce the incidence of mental health problems (Hegberg & Tone, 2014; Raglin & Wilson, 2012). Exercise helps strengthen the heart and muscles, prevents disease, contributes to weight loss, and provides added energy to accomplish everyday tasks (Robinson, 2014).

**Exercise and the Brain**
Physical activity has been established as important for the prevention of cardiovascular disease, diabetes, and other health outcomes. Additionally, regular physical activity has been associated with emotional and mental health well-being (Puett et al., 2014). Regular exercise is important for the development and well-being of the brain because it helps to train the brain and keep the brain healthy. Basically, exercise provides alertness and the ability to complete tasks (Robinson, 2014).

Exercise increases the size of the hippocampus, which is located in the brain. The hippocampus serves as an important component in the brain by forming, organizing, and storing memories. Physical activity stimulates the release of mood enhancing hormones and provides a healthy environment beneficial for brain cell growth (Hogan, Mata, & Carstensen, 2013).

**Exercise and Cognition**
Cognition refers to the processing of sensory information such as attention, memory, and reasoning. Exercise offers mental health benefits including attention to detail, task switching, working memory, and general academic achievement (Fitzsimmons et al., 2014). In addition, researchers have found that cognitive decline and dementia can be delayed when individuals engage in a physically active lifestyle (Smith, Potter, McLaren, & Blumenthal, 2013). Exercise can help our brain focus on tasks, make better decisions, and improve our productivity and response time (Hogan, Mata, & Carstensen, 2013).

**Exercise and Stress**
Stress-related mental health issues (e.g., burnout, anxiety, and depression) have become critical public health matters that affect individuals in occupational settings. Burnout, anxiety, and depression have been linked to increased turnover and absenteeism rates and lower job performance. In addition, burnout has been identified as an important health hazard, associated with
cardiovascular diseases, disturbed sleep, depression, and general anxiety disorders (Gerber, Jonsdottir, Lindwall, & Ahlborg, 2014). Individuals can combat stressful experiences and the development of health problems by employing effective coping strategies. Furthermore, exercise has been established as a useful resource that helps to increase emotional well-being and decrease psychological stress by serving as a buffer for the negative effects of stress (Klaperski, von Dawans, Heinrichs, & Fuchs, 2013; Puett et al., 2014).

Effective Strategies for Boosting Physical and Mental Health
Exercises that involve coordination and cardiovascular endurance have been shown to have the largest impacts on physical and mental health (Robinson, 2014). The CDC (2008) recommends 150 minutes of moderate intensity aerobic activity per week to generate substantial physical and mental health benefits.

- **Choose an enjoyable exercise**
  Choosing an exercise that you enjoy will help you to stick with an exercise program. Match the activity to your ability level. People tend to spend more time doing things they enjoy.

- **Set a SMART goal**
  Make sure the goal is Specific to what needs to be accomplished. The goal should be Measurable, so progress can be tracked. Goals should be Action-oriented by including physical tasks. The goal should also be Realistic, not impossible, but still challenging. Finally, the goal should include a Time frame for when it will be attained (McDonald & Trost, 2015).

- **Join an exercise class**
  Exercise classes can be a great way to combine physical activity with meeting new people. Fitness facilities oftentimes offer interactive activities such as yoga, Zumba, and spinning classes. Exercise classes also provide opportunities to receive support and motivation from classmates.

- **Hire a fitness trainer**
  Fitness trainers can be a valuable resource for individuals. Instructors can provide one-on-one training sessions, as well as individualized exercise plans that are geared to maximize results.

- **Track progress using an electronic activity tracker**
  Electronic activity trackers, such as pedometers or Fitbits, automatically count steps and distance. Some devices have the ability to calculate calories burned, food intake, and exercise duration. The devices can also sync with a smart phone or other electronic device, so results are easily tracked day to day.

- **Form healthy habits**
  Incorporate physical activity into daily routines by walking to work, taking the stairs, riding a bike, or standing and stretching at work.

**Conclusion**
Regular physical activity is one of the best ways to improve overall health. Anyone can gain health benefits from exercising, regardless of age, ethnicity, shape, or size (CDC, 2008). Sometimes the first step is the hardest; remember to start where you are and move forward. By making exercise a priority in your life you can improve brain function, increase quality of life, and extend life expectancy.

**References**


