Learning Objectives

MedBridge
Motor Control and Motor Learning
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Course Objectives:

Upon completion of this course, learners will be able to:

- Define the fields of motor control (MC), motor learning (ML), and motor development (MD)
- Discuss the factors that interact in MC, ML, and MD
- List several ways movement can be defined as well as various types of measurement
- Provide examples of how theoretical frameworks in MC and ML have changed
- Analyze the validity of a single developmental model for achievement of gross motor skills
- Describe the characteristics of digitigrade stepping
- Compare the different time lines for achieving lower extremity control for ambulation in two children
- Contrast the relative roles of motor control and learning in developing lower extremity control in two children
- Identify environmental constraints related to independent or assisted ambulation
- Differentiate between hierarchical and systems models of motor control
- Discuss influences on the development of motor control theory
- Contrast feedback to feed-forward systems of motor control
- List three ways sensory information is used in motor programs
- Discuss how “affordances” of the environment affect motor control and learning