

Learning Objectives

MedBridge Education

Update on Neuroscience Applications to Treatment of Cognitive Disorders

Martha Burns, MA, PhD, CCC-SLP

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

Chapter 1: Neuroscience Update

- Recognize and discuss network theory, fiber tract organization and connectomes
- Describe modular organization of inferior frontal gyrus and posterior superior temporal lobe
- Describe connectomes and potential treatment applications

Chapter 2: Assessment and “how” of Treatment Overview

- Utilize basic cognitive assessments for adults with TBI, stroke and early dementia
- Describe neuromodulators associated with recovery
- Utilize treatment techniques that upregulate and enhance neuroplastic brain changes

Chapter 3: Treatment Review of Evidence Based Interventions

- Utilize treatment interventions for attention
- Utilize treatment interventions for memory
- Utilize treatment interventions for executive function