

Outline

Case Study

NEUROANATOMY AND THE IMPACT ON COGNITIVE PROCESSING

- Basic neuronal anatomy
- Brain wiring: Association, projection, and commissural fiber tracts
- Brain lobes locations and ties to cognitive processes
- Cerebellum and impact upon cognition
- Case Study 1: Jacob's anxiety and how pacing the halls became therapeutic

Case Study

OPTIC SYSTEM AND VISUAL PERCEPTION

- Optic constructs, anterior-posterior fiber tracts
- Visual cortices and unique roles in visual processing
- Effect of tumors, shear injuries, CVA lesions upon visual perception
- Case study 1: Why can't my patient just see the whole worksheet like I do?
- Group Exercise: Review of vision diagnostics by discipline (PT/OT/SLP)

HOW NEUROTRANSMITTERS DRIVE THE BUS

- Internal communication systems within the brain
- Dopamine pathways and effects on cognition and reward systems
- Serotonin pathways and mood modulations

EXECUTIVE FUNCTIONS OF THE FRONTAL LOBE

- The Cognitive Pyramid and moving patients upward
- Skull anatomy and effects of shear injury
  - o Shear injury as it affects anxiety and behavioral health
- Therapy implications for PT/OT/SLP
- Group Exercise: Review of executive function diagnostics by discipline (PT/OT/SLP)

COMMUNICATION AND THE LEFT HEMISPHERIC FUNCTIONS

- Broca's vs. Wernike's areas
- Function of the arcuate fasciculus upon communication

SPATIAL PROCESSING AND THE RIGHT HEMISPHERIC FUNCTIONS

- Neurophysiology vs neuropathology, understanding patients' nonverbal challenges
- Inferential language and social cognition
- A sense of time and spatial organization revealed

THE HIDDEN PROCESSORS-THALAMIC INFLUENCES

- Auditory pathways and neuroanatomy
- Thalamic engagement on sensory information
- Modulation of sleep and vigilance

Case Study

MEMORY: HOW THE HIPPOCAMPUS AND THE AMYGDALA PARTNER

- Memory processes
- Memory types: Right vs left hippocampal functions
- Hypoxia and anoxia upon memory function
- Sleep and memory consolidation, effect of exercise on memory structures
- Amygdala's influence upon fear-based learning and hijacking executive control
- Case study 3: Nile's hypoxia and long term rehab outcomes

RECOVERY FROM ACCELERATION/ DECELERATION INJURIES: DIFFUSE AXONAL INJURY (DAI)

- Microanatomical features of DAI
- CTE: Chronic Traumatic Encephalopathy
- Where medications have failed

AGITATION MANAGEMENT STRATEGIES

- Review how working knowledge of the Rancho Los Amigos levels and practitioner tips can avoid confrontation
- Learn trick of the trade for avoiding escalation
- Confabulation and denial—addressing the elephant in the room

ENRICHING PATIENT AND CLINICIAN RELATIONSHIPS

- The science behind mediations and mindfulness
- Reigning in the runaway situation

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Addressing Patient Behavior by  
Brain Lesion Site



Clinical Tools & Strategies Specific to  
Patient Deficits

ARLINGTON, TX  
Wednesday, May 15, 2019

PLANO, TX  
Thursday, May 16, 2019

SHREVEPORT, LA  
Friday, May 17, 2019

Addressing Patient Behavior by  
Brain Lesion Site



Clinical Tools & Strategies Specific to  
Patient Deficits

- Identify cognitive dysfunction to enhance neuroplasticity for decreased fall risk and improved mobility/transfers
- Link function and behavior to more strategically written patient-driven therapy goals
- Tools to connect neuroanatomy to patient behaviors to address difficult behaviors like defiance and confusion
- Improve intervention timing by choosing proper diagnostics based on level of brain lesion
- Anticipate proper discharge plan by determining patient response in structured vs. home environments

TARGET AUDIENCE

Physical Therapists  
Physical Therapist Assistants  
Occupational Therapists  
Occupational Therapy Assistants  
Speech-Language Pathologists  
Certified Brain Injury Specialists  
Recreational Therapists  
Nurses  
Nurse Practitioners  
Social Workers

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