

Outline

Neuroanatomy and The Impact on Cognitive Processing

- Warming-Up: a tour of brain development and amazing facts & functions
- Basic neuronal anatomy and supportive tissues of brain
- Brain wiring: association, projection, and commissural fiber tracts
- Brain lobes by location and specific contribution to cognitive processes
- Cerebellum and impact upon cognition
- Case Study 1: Jacob's anxiety and how pacing the halls become therapeutic

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 processing
- Karen's Story: A Speech-Language Pathologist's personal tumor experience
- Case study 2: Why can't my patient just see the whole worksheet like I do?

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
- The neuroscience of gratitude and a simple brain hack to boost patient engagement

Executive Functions of The Frontal Lobe

- The Cognitive Pyramid and moving patients upward
- Skull anatomy and effects of shear injury
- Shear injury as it affects anxiety and behavioral health
- Breaking it all down: specific therapy implications for PT/OT/SLP by discipline
- Understanding metabolic related changes to cognition and impacts on timing rehabilitation

Communication and The Left Hemispheric Functions

- Broca's vs. Wernicke's area
- Function of the accurate fasciculus upon communication

Spatial Processing And The Right Hemispheric Functions

- Neurophysiology vs neuropathology, understanding patients' nonverbal challenges
- Inferential language and social cognition
- Confabulation and denial – addressing the elephant in the room
- Anosognosia: how therapists consistently hit the wall and learn to overcome
- 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

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 at each stage of recovery from TBI

Enriching Patient And Clinician Relationships

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

Target Audience:

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

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Addressing Patient Behavior by Brain Lesion Site

Clinical Tools & Strategies Specific to Patient Deficits

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Addressing Patient Behavior by Brain Lesion Site

Clinical Tools & Strategies Specific to Patient Deficits

- Powerful approaches for PTs, OTs and SLPs to manage difficult behaviors like noncompliance, defiance and confusion
- A concise framework for intervention timing based on level of brain lesion
- Optimize discharge planning by determining patient response in structured vs. home environments
- Confidently link function and behavior to more strategically written patient-driven therapy goals



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Addressing Patient Behavior by Brain Lesion Site:

Clinical Tools & Strategies Specific to Patient Deficits

You are faced with a growing caseload, diminished resources/reimbursement, and increasingly complex patients with the expectation of improving outcomes and reducing length of stay. On top of it all, when working with patients with brain lesions, the behavioral and cognitive challenges can be taxing.

Jerome Queller, MS, CCC-SLP will bring decades of acute care experience to the table and arm you with an improved clinical eye to predict dysfunction and expedite the pathway to treatment.

Neuroanatomy is admittedly complex and overwhelming, but this course provides today's cutting edge neuroscience – in plain English. You'll tie what you learned (and may have forgotten) about neuroscience to a clear understanding of how you can work around the damage to optimize your patient outcomes!

- A framework for understanding the recovery pathway for each type of lesion
- Clinical implications for abrupt visual changes and an in-depth understanding of the difference between visual field cuts and neglect
- Simple modifications to your interventions that will streamline your treatment time and patient outcomes

Best of all? We'll explore what we can learn from each other! OTs, PTs and SLPs all have powerful treatment tools up their sleeves. This training will emphasize the best practices from each that help to overcome specific patient deficits.

Feel confident with your next patient as you unlock the keys to working with behavior barriers and engagement. Join me for a high-energy, dynamic program filled with interesting case studies, insightful discussions and interactive learning. You will finish this training with practical techniques that you can apply the next day!

Objectives

1. Categorize the anatomy and function of lobes of the brain as they apply to behavioral control.
2. Evaluate the optic system and lesion locations that affect engagement and accuracy in therapy.
3. Analyze the connection between neurotransmitters and the communication system within the brain.
4. Compare and contrast the left vs right hemispheres to better describe unique and complimentary functions as well as common lesion based changes to behavior.
5. Inspect the neurophysiology of memory, the effect of fear/anger upon new learning, and assess neuro-behavioral barriers that impact memory formation.
6. Analyze the effect of traumatic and non-traumatic injuries upon cognitive centers.
7. Employ simple neuroanatomy-based techniques to rapidly de-escalate stress for patients and caretakers.



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Live Webinar Schedule

(Times listed in Mountain)

9:00 Program begins

12:00-12:30 Lunch Break

3:00 Program ends

There will be two 15-min breaks (mid-morning & mid-afternoon). Actual lunch and break start times are at the discretion of the speaker. A more detailed schedule is available upon request.

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Meet Your Speaker

Jerome Queller, MS, CCC-SLP, is a clinical specialist in traumatic brain injury and communication disorders at a 450+ bed Level 1 Trauma hospital in Saint Paul, MN with almost 25 years of acute, residential, and outpatient rehabilitation experience. During his tenure at the hospital he has focused on neuro-based diagnostics and intervention for dysphagia, cognitive-linguistic deficits, head and neck cancer management, patient advocacy, and curriculum development. Mr. Queller has made a career-long study of the intricacies of neurology, completed advanced training in brain dissection at Marquette University, actively engages in staff development training, and recently joined a surgery team in preserving language function during tumor resections.

In addition to his clinical practice, he has previously held a faculty position at the University of Minnesota Duluth teaching graduate level coursework, and taught undergraduate workshops as adjunct faculty at the University of Wisconsin Eau Claire. Mr. Queller is excited to bring this topic to the forefront after working with the interdisciplinary team's challenges in understanding the "what and why" of traumatic brain injury, stroke, neurodegenerative diseases and tumor resections as they apply to behavioral changes. He graduated *Cum Laude* with his bachelor's degree and graduate degree from the University of Wisconsin Eau Claire.

Speaker Disclosure:

Financial: Jerome Queller has an employment relationship with Regions Hospital. He receives a speaking honorarium from PESI, Inc.

Non-financial: Jerome Queller is a member of the American Speech-Language-Hearing Association.

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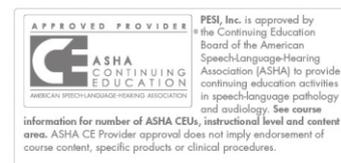
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