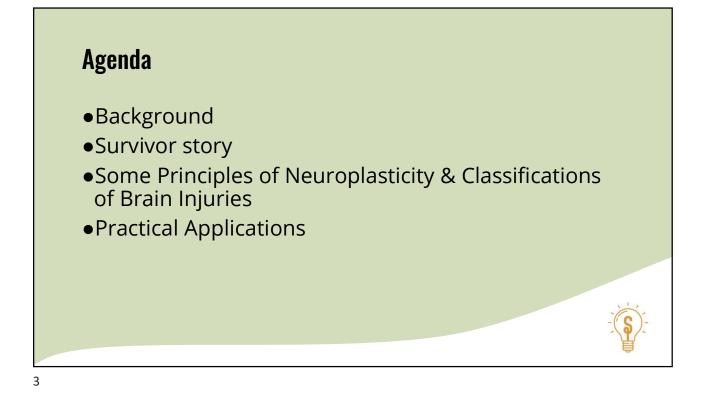
It's Personal: Principles of Neuroplasticity & the Role of Compensatory Strategies in Cognitive Rehabilitation

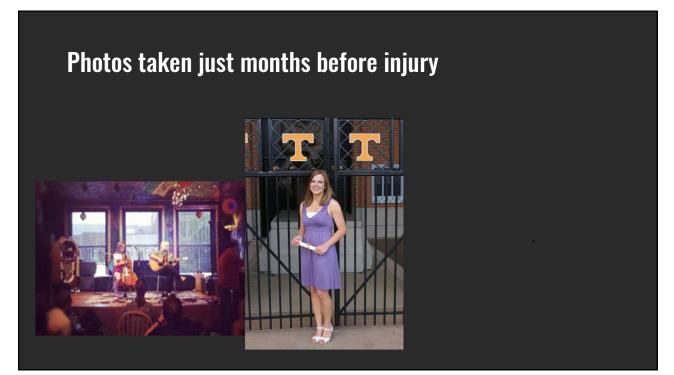
Laura Morgan

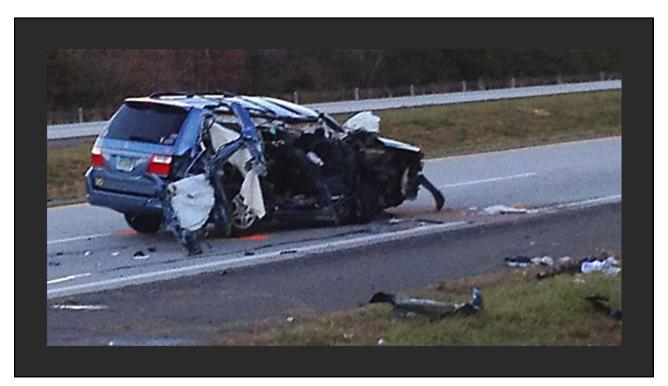
M.S., C.C.C.-S.L.P., C.B.I.S. laura@soundmindinsights.com Instagrams: @soundmindinsights & @slp_tbi



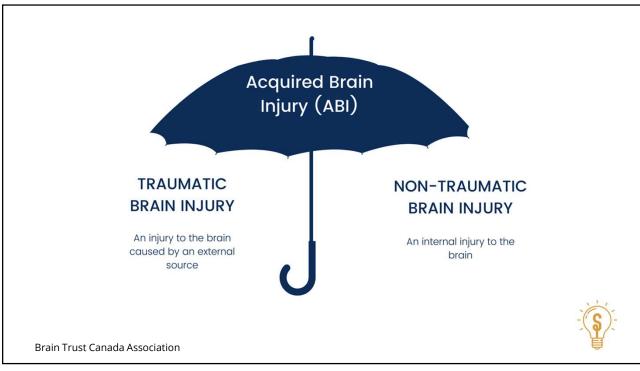






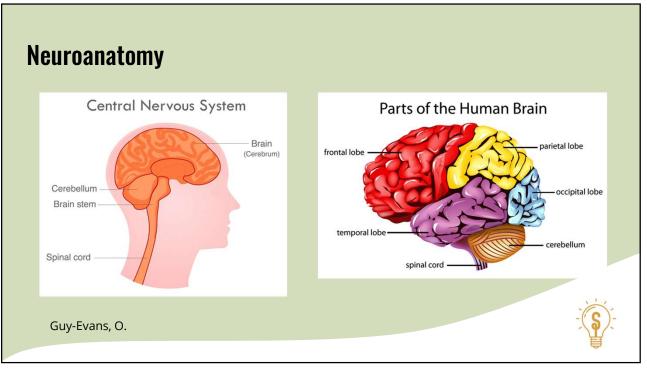






Brain Injury Classification

Criteria	Mild	Moderate	Severe
Structural Imaging			
Loss of Consciousness			
Alteration of Consciousness/Mental State			
Post-traumatic Amnesia		-	-
Glasgow Coma Scale (best available score in 24 hours)			
Brasure M, et al.			

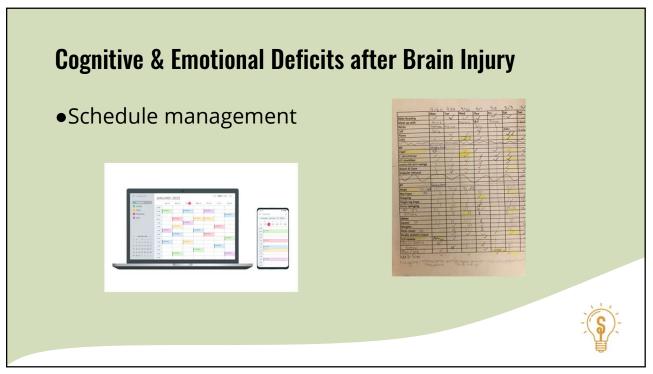








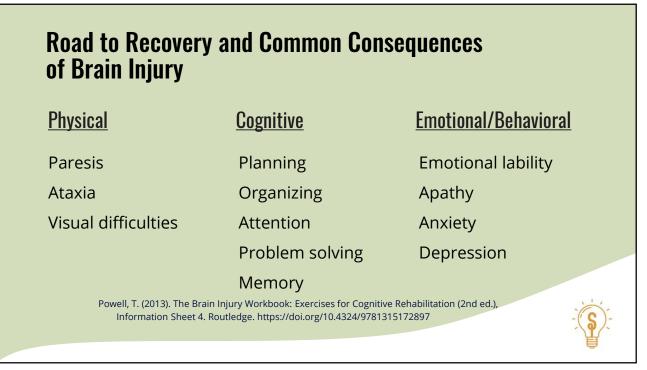




Emotional Impact of Brain Injury

"One of the things I look at is how the attributes that a patient brings to the table resiliency, spirituality, hope—facilitate recovery. What we've found is that maintaining a positive attitude really does help with outcomes and life satisfaction."

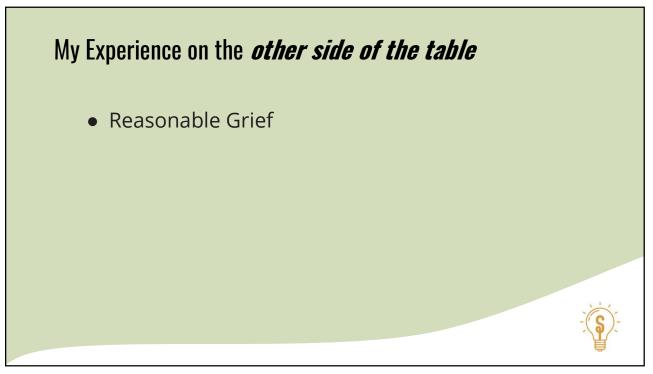
Dr. Kathleen Bechtold



Neuroplasticity & Compensatory Strategies

Neuroplasticity is "the fancy medical term used to describe your brain's ability to learn and adapt. Think of it as an internal rewiring process that allows your mind to grow and meet new and increased demands." **Compensatory Strategies** are the creative tricks used to accomplish tasks using alternative methods despite challenges

Cleveland Clinic

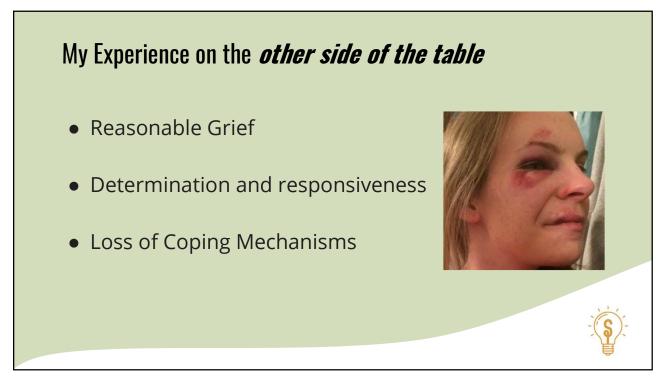




- Reasonable Grief
- Determination and responsiveness

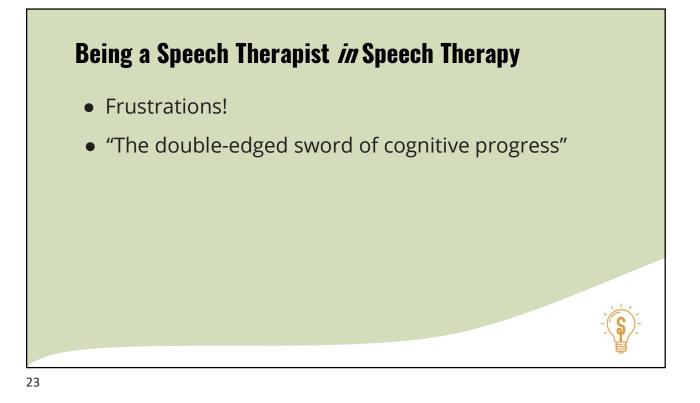


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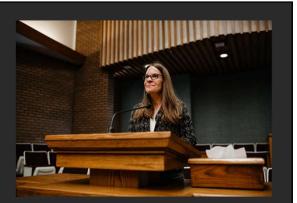


- Use them consistently
- Incorporate errorless learning
- Add multimodal input









Laura Morgan M.S., C.C.C.-S.L.P., C.B.I.S. www.soundmindinsights.com laura@soundmindinsights.com Instagrams: @soundmindinsights <u>& @slp_tbi</u>

Works Cited

Anders, D. et. al. (2016). The Essential Brain Injury Guide (Edition V.) Brain Injury Association of America.

Brasure M, Lamberty GJ, Sayer NA, et al. Multidisciplinary Postacute Rehabilitation for Moderate to Severe Traumatic Brain Injury in Adults [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2012 Jun. (Comparative Effectiveness Reviews, No. 72.) Table 1, Criteria used to classify TBI severity. Available from: https://www.ncbi.nlm.nih.gov/books/NBK98986/table/introduction.t1/

Brain Trust Canada Association (2025) Acquired Brain Injury [digital image]. https://braintrustcanada.com/braintrust/what-is-acquired-brain-injury/

Central Nervous System. Cleveland Clinic. Retrieved February 1, 2025, from https://my.clevelandclinic.org/health/body/central-nervous-system-cns

Cleveland Clinic. "Brainwork: The Power of Neuroplasticity." Cleveland Clinic, 9 Sept. 2024, health.clevelandclinic.org/neuroplasticity.

Defrin R. (2014). Chronic post-traumatic headache: clinical findings and possible mechanisms. The Journal of manual & manipulative therapy, 22(1), 36–44. https://doi.org/10.1179/2042618613Y.0000000053

Growth Mindset Wall Decor, ZEARPT store, Amazon

Guy-Evans, O., MSc (2024, January 17). Structure and Function of the Central Nervous System. SimplyPsychology. Retrieved February 1, 2025, from https://www.simplypsychology.org/central-nervous-system.html

Kortte, K. B., Stevenson, J. E., Hosey, M. M., Castillo, R., & Wegener, S. T. (2012). Hope predicts positive functional role outcomes in acute rehabilitation populations. *Rehabilitation Psychology*, 57(3), 248–255.

MacDonald, Sheila. "The Cognitive-Communication Checklist for Acquired Brain Injury: A Means of Identifying, Recording, and Tracking Communication Impairments." *American Journal of Speech-Language Pathology*, vol. 30, no. 3, Apr. 2021, pp. 1074–89. https://doi.org/10.1044/2021_ajslp-20-00155. Powell, T. (2013). The Brain Injury Workbook: Exercises for Cognitive Rehabilitation (2nd ed.), Information Sheet 4. Routledge. https://doi.org/10.4324/9781315172897

"What Is a Brain Injury? - Brain Injury Association of America." Brain Injury Association of America, 16 Jan. 2025, biausa.org/brain-injury/about-brain-injury/what-is-abrain-injury.

Zotey, V., Andhale, A., Shegekar, T., & Juganavar, A. (2023). Adaptive Neuroplasticity in Brain Injury Recovery: Strategies and Insights. Cureus, 15(9), e458732 https://doi.org/10.7759/cureus.45873