



Collaborating
with our
Glenwood and
Ankeny teams
helped us to
overcome
three of the
four perceived
challenges.

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* How do we address the time up in their
wheelchair without repositioning?

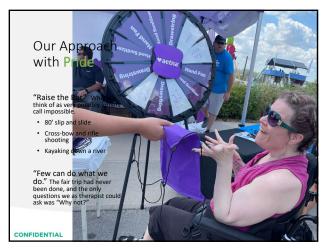
* How can we deliver a nutritional meal safely
while away from campus for 12 hours?

* How can we meet the toileting needs of our
persons served with out special lifts or
additional hands?

* Urinal and condemn catheters also
aided

* By using Ankeny as our satellite campus,
we were able to get everyone off the bus
and out of their chairs for toileting and
ADL needs during a lunch break.





How do you see value?

- The commitments made by On With Life to allow this trip to happen were HIGH.
- 6 staff for 12 hours (1 nurse, 4 TR Specialist, 1 Therapy Coordinator)
- 2 more staff assisting in Ankeny
- Two vehicles + gas
- Admission for 10
- Meals

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Can you put a price on...

- · Making dreams come true
- of social distancing
 Eating your first: foot long
 pickle and cream cheese
 rapped corn-dog, giant
 smoked turkey leg, fried
 twinky on a stick, or a
 bucket of soft and chewy
 cookles
 Your fist time seeing a
 life-size butter cow, PeeWee the 1300H pig, or
 Albert the 3,042H bull.









Objectives

- Identify the importance of movement in the treatment of Parkinson's Disease
- Discuss ways to support Persons with Parkinson's Disease beyond traditional therapy

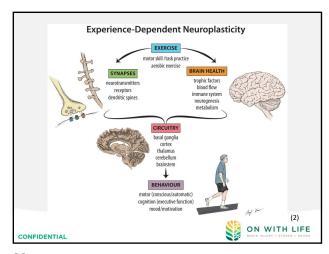
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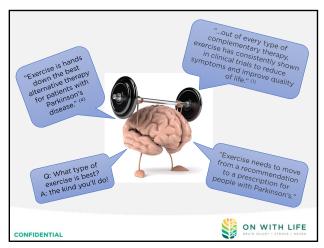
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Physical	Manual	Other
Cycling	 Massage 	Guided Imagery
 Boxing 	 Acupuncture 	 Meditation
• Yoga	 Chiropractic 	 Hypnosis
• Tai Chi	 Reflexology 	 Biofeedback
• Dance		 Aromatherapy
 Singing 		 Supplements
• Art		 Energy Therapy
 Pilates 		







Boxing



Benefits:

- † coordination, endurance, agility, speed of movement, strength, social connection, dual task
- ↓ rigidity, freezing

Considerations:

- · Limited research at this time
- · Safety/modifications

Resources:

- Rock Steady Boxing
- https://rocksteadyboxing.org/find-a-class/
- Parkinsonfoundation.org
 Online boxing and wellness classes
 One-on-one with therapist or personal trainer

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Yoga



- $\ \ \uparrow$ breath control, balance, flexibility, relaxation
- \downarrow tremor, rigidity, anxiety

Considerations:

- Positioning/modifications
- Use of music or voicing

Resources:

- APDA virtual yoga classes
 https://www.apdaparkinson.org/?s=voga
 Yoga for PD YouTube channel
 https://www.voutube.com/plavlist?list=PLUaOe8plimlNFXMaccvW/Zm3UnbSa6irS
- · Local wellness centers







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Tai Chi



Benefits:

- † flexibility, muscle strength, digestion, gait speed and stride length, emotional well-being, standardized outcomes⁽⁵⁾
- \downarrow dyskinesia, stress, postural instability, blood pressure

Considerations:

• More beneficial at earlier stages

- https://www.taoisttaichi.org/taoist-tai-chi-arts-and-parkinsons-disease/
- $\frac{https://parkinsonfoundation.org/tai-chi-for-parkinsons-with-instructor-kim-brooks}{}$
- · Local wellness centers



Art, Music, Dance

- Physical, cognitive, emotional, communicative, expression
- $\ \, \uparrow \,$ brain stimulation, use of different areas of the brain, visual/cognitive function, dexterity, mood, speech, processing, connection
- ↓ stress, isolation, depression

Considerations:

· New learning increases neuroplasticity

Resources:

- Community choirs, symphonies
- · Wellness center dance and movement groups
- ParkinSingers
- ISU: https://kin.hs.iastate.edu/outreach/outreach-programs/music-therapy-for-persons-with-parkinsons-disease/

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Additional Resources

- Power for Parkinson's: online and virtual classes • https://www.powerforparkinsons.org/youtube
- Brian Grant Foundation
- https://briangrant.org/
- PD Active
 https://pdactive.org/
- Davis Phinney Foundation
 https://davisphinneyfoundation.org/
- American Parkinson's Disease Association
- https://www.apdaparkinson.org/ • Michael J. Fox Foundation
- https://www.michaelifox.org/parkinsons-awareness-month?smcid=ap-alb1R00000AlP99

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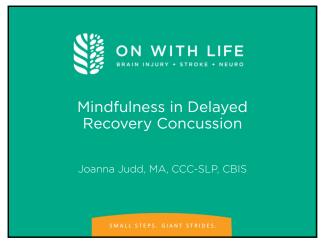
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Objectives

- 1. Provide overview of delayed recovery concussion and the autonomic nervous system.
- 2. Review autonomic nervous system dysfunction in delayed recovery concussion.
- 3. Review mindfulness practice in delayed recovery concussion populations.



Delayed Recovery Concussion

- A concussion is a bump, jolt, or blow to the brain
- Concussion symptoms include (but are not limited to): headache, light sensitivity, noise sensitivity, dizziness, nausea, brain fog, fatigue
- Symptoms resolve in 2-4 weeks for 85-90% of individuals who have sustained a concussion (acute concussion)
- Delayed recovery concussion: symptoms persist beyond the 4-week window (10-15% of individuals)

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The Nervous System

- Two branches: Central nervous system (Brain and spinal cord) and Peripheral nervous system
- Peripheral nervous system has two branches: the somatic nervous system and autonomic nervous system
- Autonomic nervous system: connects the brain to most of our major organs
 - Sympathetic nervous system: fight-flight-freezefawn
 - · Parasympathetic nervous system: rest-digest-sex

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Autonomic Nervous System

- Sympathetic Nervous System (SNS)- Fight-Flight-Freeze-Fawn
 - Freeze- Avoiding activity, going through the motions, appearing stuck
 - Fawn- Please/appease/pacify the threat to keep self from harm
- Parasympathetic Nervous System-(PNS)- Rest-Digest-Sex
- Teeter totter/seesaw analogyboth systems cannot be activated at the same time





Mindfulness

- Being aware in the present moment
- Noticing thoughts, feelings, physical sensations, and environment without making judgments about them
- Virtual Hope Box
 - · Deep breathing
 - Progress muscle relaxation
 - Guided meditation



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Questions?

Joanna Judd - Speech-Language Pathologist <u>Joanna.judd@onwithlife.org</u>

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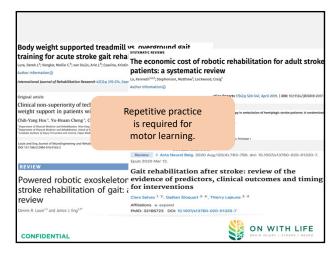
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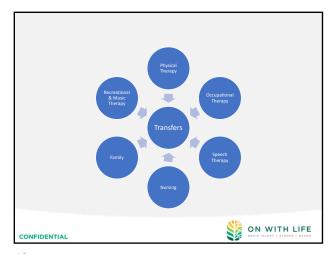
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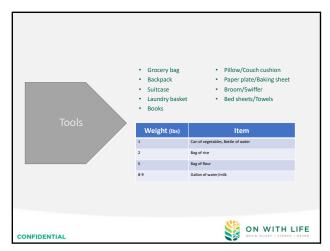
Objective Expand your toolbox and gain the confidence to facilitate thoughtful, bare-bones therapeutic opportunities in any environment. CONFIDENTIAL











"It's not where you from—it's where you	
	Jean-Luc Godard
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Rehabilitation is a life-long and evolving journey. To leave the largest impact on those we serve, we must equip them with the education and critical thinking skills to continue challenging themselves and achieving optimum results in the clinic, the home, and within the community.





