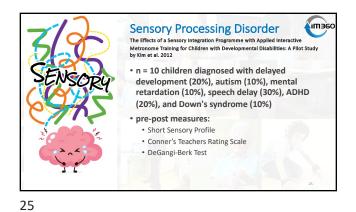
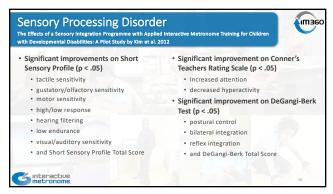
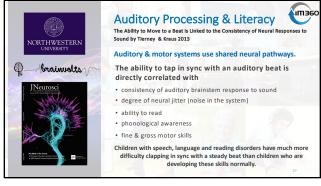




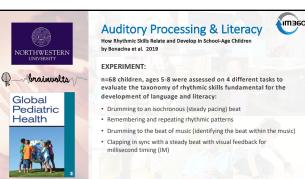
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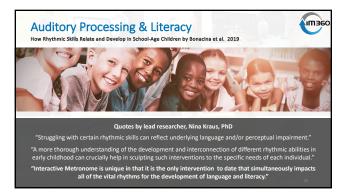


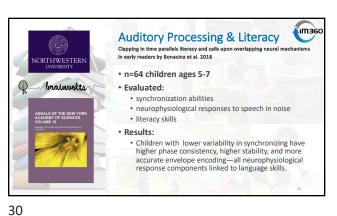


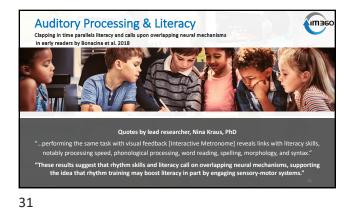


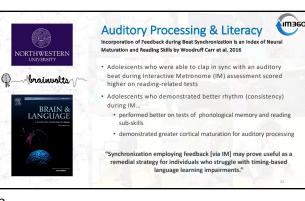


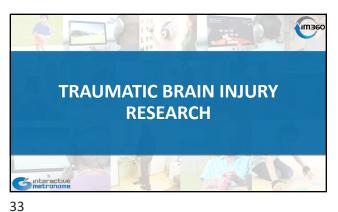


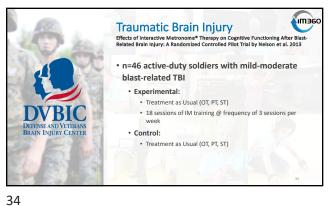


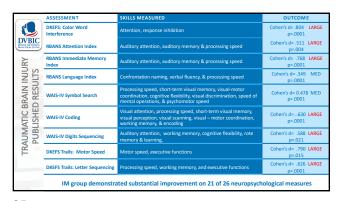


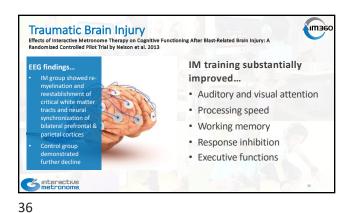












Traumatic Brain Injury

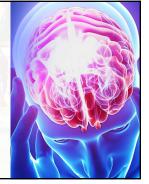
Effects of Interactive Metronome® Therapy on Cognitive Functioning After Blast-Related Brain Injury: A Randomized Controlled Pilot Trial by Nelson et al. 2013

"The addition of IM therapy to SRC [standard rehab care] appears to have a positive effect on neuropsychological outcomes for soldiers who have sustained mild-to-moderate TBI and have persistent cognitive complaints after the period for expected recovery has passed."

Lonnie Nelson, PhD

S interactive metronome

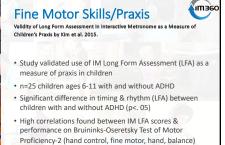
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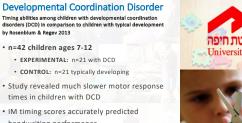


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- handwriting performance
 "...strongly recommend IM as an evaluation
- and intervention tool for children with DCD"

Sinteractive metronome



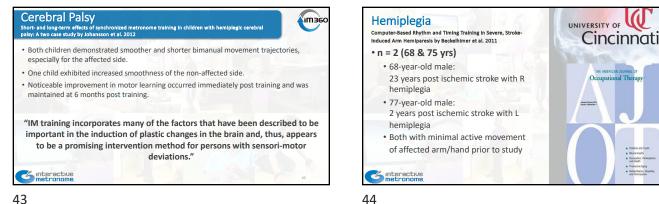
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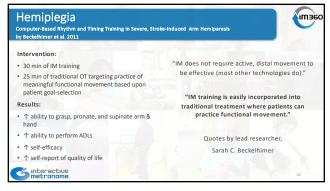






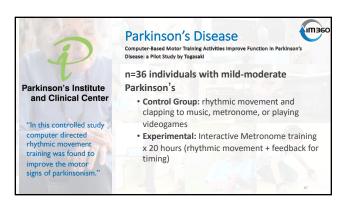








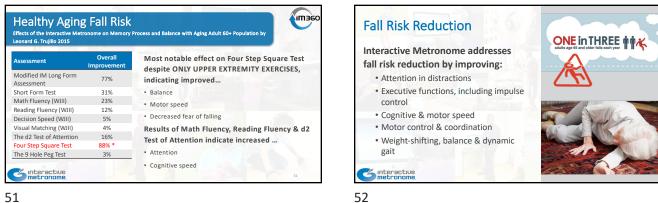
KONYANG UNU ERSITY ШЗес **Upper Extremity Function** Effects of Interactive Metronome training on upper extremity function ADL and QOL in stroke patients Ga-Hui Yu et al. 2017 n=30 adults, 6 months post-CVA EXPERIMENTAL: रेक्षे मा के ये. 199 IM training for 15 weeks
 CONTROL: n=15
Completed bilateral arm exercises independently for same time period NeuroRehabilitat IM group demonstrated greater improvement in: Finger control Self-care ADLs · feeding, toileting, dressing & transfers most notable change in dressing Overall motor function Quality of life



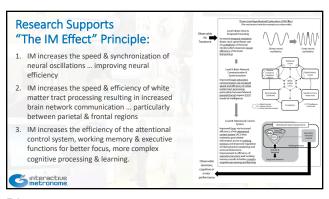












CONCLUSION

NEXT STEPS:

- Unpack equipment box (if necessary)
- Print out or pull up the PowerPoint PDF in preparation for the day long Virtual Certification Course
- Download the IMPRO software in preparation for use during the Virtual Course
- Download the Big Marker link and log in
- Set up webcam and turn volume to 'mute'

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Research Review

AUDITORY PROCESSING DISORDER, ACADEMICS AND LITERACY

- Timing in Child Development by Kuhlman & Schweinhart 1999
- The Ability to Move to a Beat is Linked to the Consistency of Neural Responses to Sound by Tierney & Kraus 2013
- How Rhythmic Skills Relate and Develop in School-Age Childrenby Bonacina et al. 2019
 Clapping in time parallels literacy and calls upon overlapping neural mechanisms
- in early readers by Bonacina et al. 2018 • Incorporation of Feedback during Beat Synchronization is an Index of Neural
- Maturation and Reading Skills by Woodruff Carr et al. 2016 • Effects of Improvements in Interval Timing on the Mathematics Achievement
- of Elementary School Students by Taub at el. 2015

5 interactive metronome

