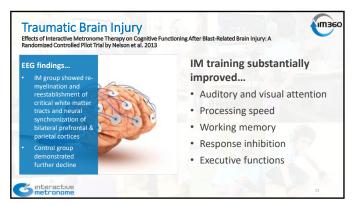
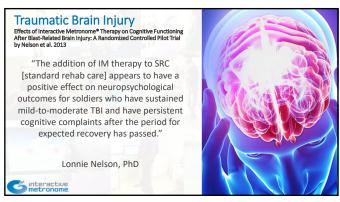
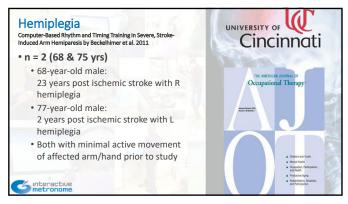


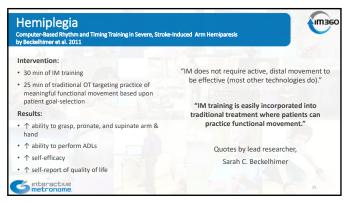
TRAUMATIC BRAIN INJURY PUBLISHED RESULTS	ASSESSMENT	SKILLS MEASURED	OUTCOME
	DKEFS: Color Word Interference	Attention, response inhibition	Cohen's d= .804 LARGE p=.0001
	RBANS Attention Index	Auditory attention, auditory memory & processing speed	Cohen's d= .511 LARGE p=.004
	RBANS Immediate Memory Index	Auditory attention, auditory memory & processing speed	Cohen's d= .768 LARGE p=.0001
	RBANS Language Index	Confrontation naming, verbal fluency, & processing speed	Cohen's d= .349 MED p=.0001
	WAIS-IV Symbol Search	Processing speed, short-term visual memory, visual-motor coordination, cognitive flexibility, visual discrimination, speed of mental operations, & psychomotor speed	Cohen's d= 0.478 MED p=.0001
	WAIS-IV Coding	Visual attention, processing speed, short-term visual memory, visual perception, visual scanning, visual – motor coordination, working memory, & encoding	Cohen's d=630 LARGE p=.0001
	WAIS-IV Digits Sequencing	Auditory attention, working memory, cognitive flexibility, rote memory & learning,	Cohen's d= .588 LARGE p=.021
	DKEFS Trails: Motor Speed	Motor speed, executive functions	Cohen's d= .790 LARGE p=.015
	DKEFS Trails: Letter Sequencing	Processing speed, working memory, and executive functions	Cohen's d= .626 LARGE p=.0001
	IM group demonstrated substantial improvement on 21 of 26 neuropsychological measures		

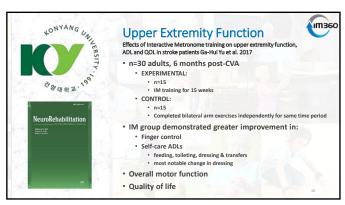


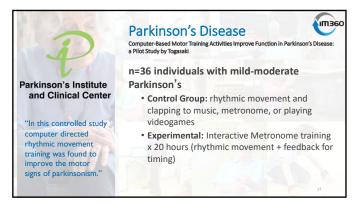








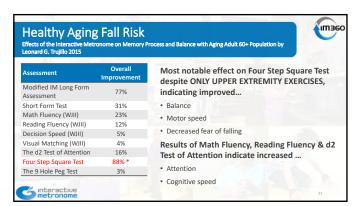










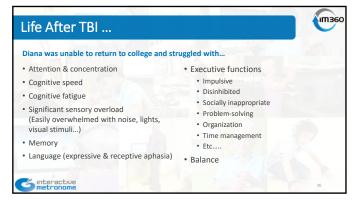






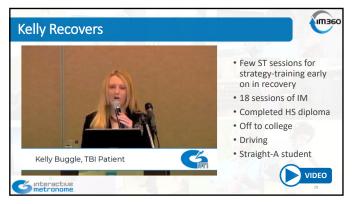












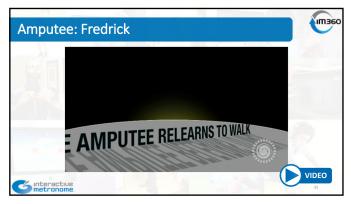






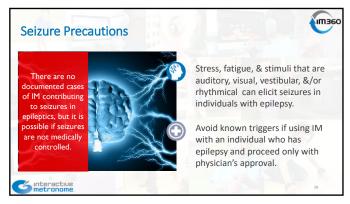








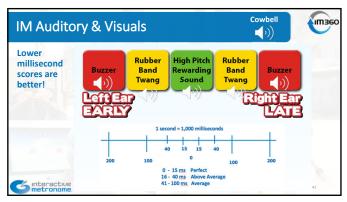


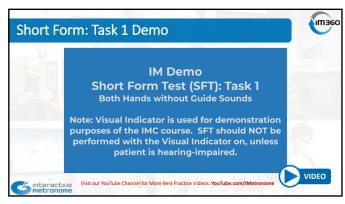


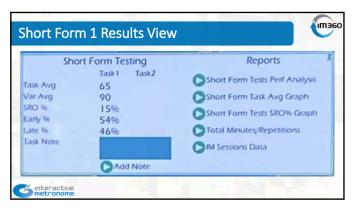




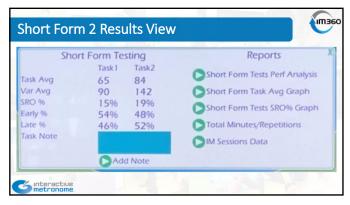


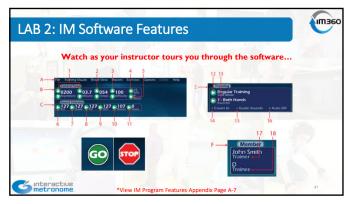


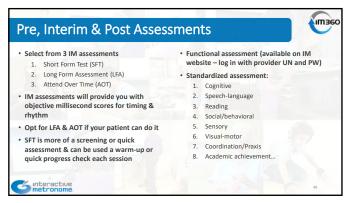


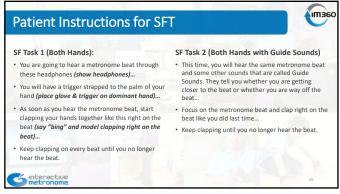








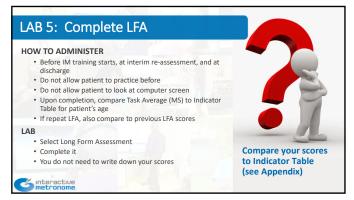




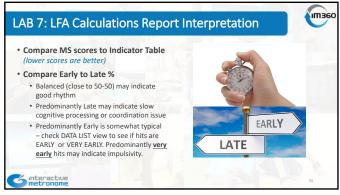


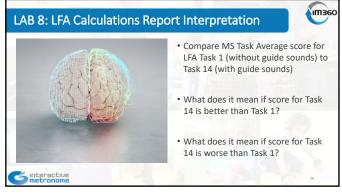


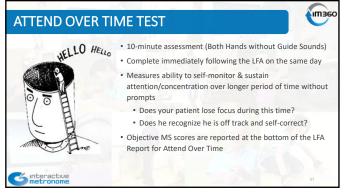


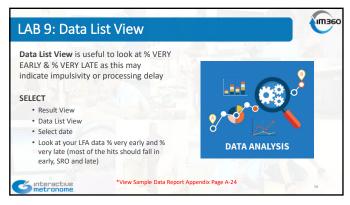




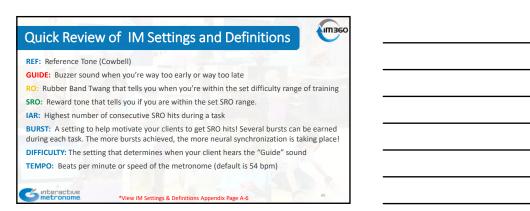






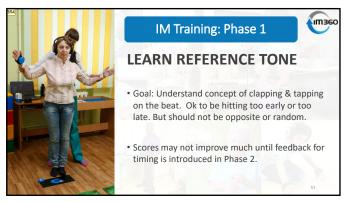






Frequency, Intensity & Duration Repetition is required in order to make lasting, functional changes in the brain. Performing a little IM here and there or for a short period of time will not lead to functional neurological change. Aim for 3x/week with minimum of 30 minutes of active IM training per session (i.e., within 45 min session, 30 min is on the machine actively training). Approximately 1400-1600 reps per session (adapt as appropriate according to age & tolerance). Duration varies depending upon baseline timing skills & other factors. Determine an interval for reassessment and communicate that to students, patients, & caregivers (rather than telling them a predetermined number of IM training sessions). Interdisciplinary functional group activities in an inpatient setting has added a layer of treatment needed to exceed previously expected outcomes. Recognizing the average short length of stay requires therapist to maximize treatment time to increase opportunities for repetition and task practice.



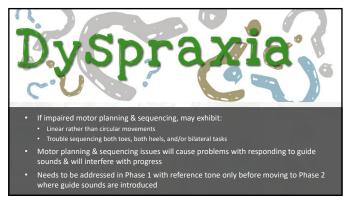


BR4 Make Picture all the way shown

Bricole Reincke, 6/16/2021



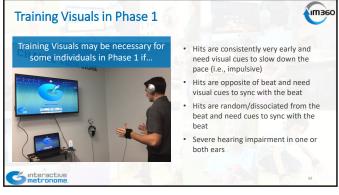




Helping the Person with Dyspraxia Stay in Phase 1 longer...auditory ref tone only. NO guide sounds. Hand exercises only (Both Hands, Right Hand, Left Hand); alternate throughout session Increase length of exercises to 10 minutes to capitalize on motor learning (person often begins to show improvement in motor coordination & rhythm more than 5 min into an individual exercise) Decrease tempo (48-52 bpm) to find just right pace where can make circular, rhythmical movements with greater ease. As rhythm improves, gradually increase tempo by 2 bpm until at 54 bpm. Do not tell patient you are adjusting tempo. Hand over hand assist, weaning to modeling, then no cues (your timing must be good) to facilitate consistent rhythmical movement. Make sure your own timing is good (20ms) Avoid verbal cues & praise ... gestures only. Avoid IM training visuals & games. Move to Phase 2 when making circular movements and good rhythm at 54 bpm ... even if millisecond scores are still not very good ... now ready for guide sounds so can further improve

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timing & rhythm.



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