

IM-Home Provider



Provider makes any
modifications needed-
Like cake!

Assigns individualized Training Plan
online thru the eClinic-
It's easy & quick!



Patient plan automatically
gets downloaded-
Worry-free!



Patient performs IM-Home session



Results automatically get
uploaded to Provider when completed
It's simple!



DKEFS Color Word Interference Test



Sub Test 1: Color Naming:
Translate sensory information into
linguistic code

GEE:

Estimated Marginal Means

Adj. Post Tx IM – TAU difference
= -6.60

Cohen's d = -0.804

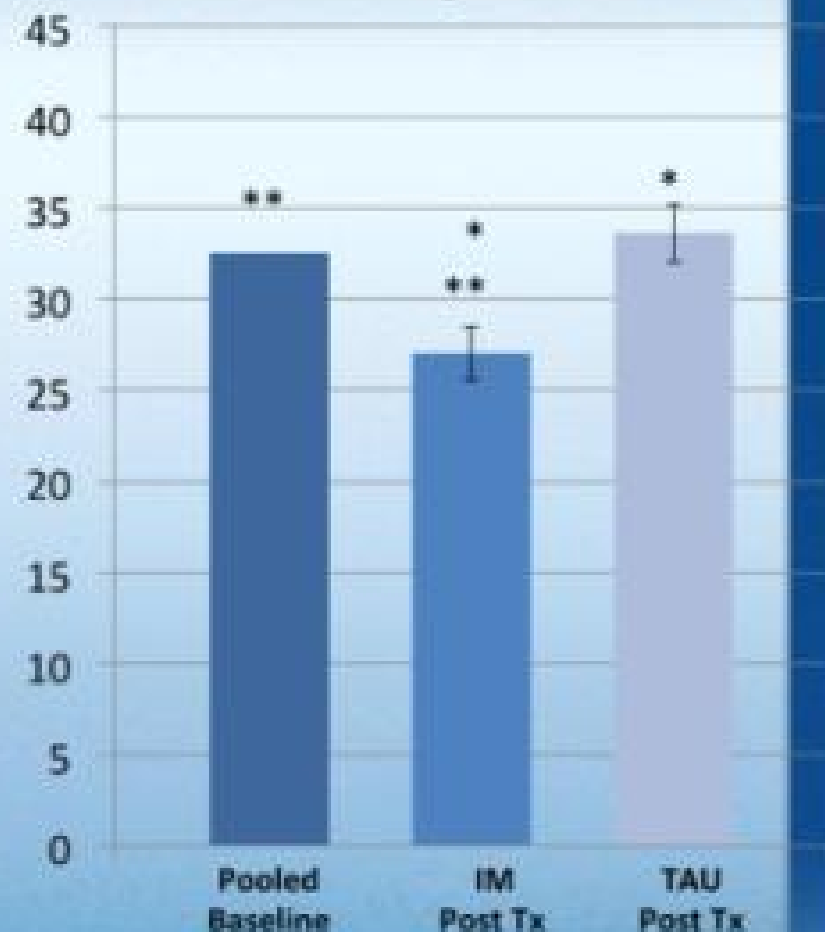
"Large" effect

Sidak Corrected pairwise

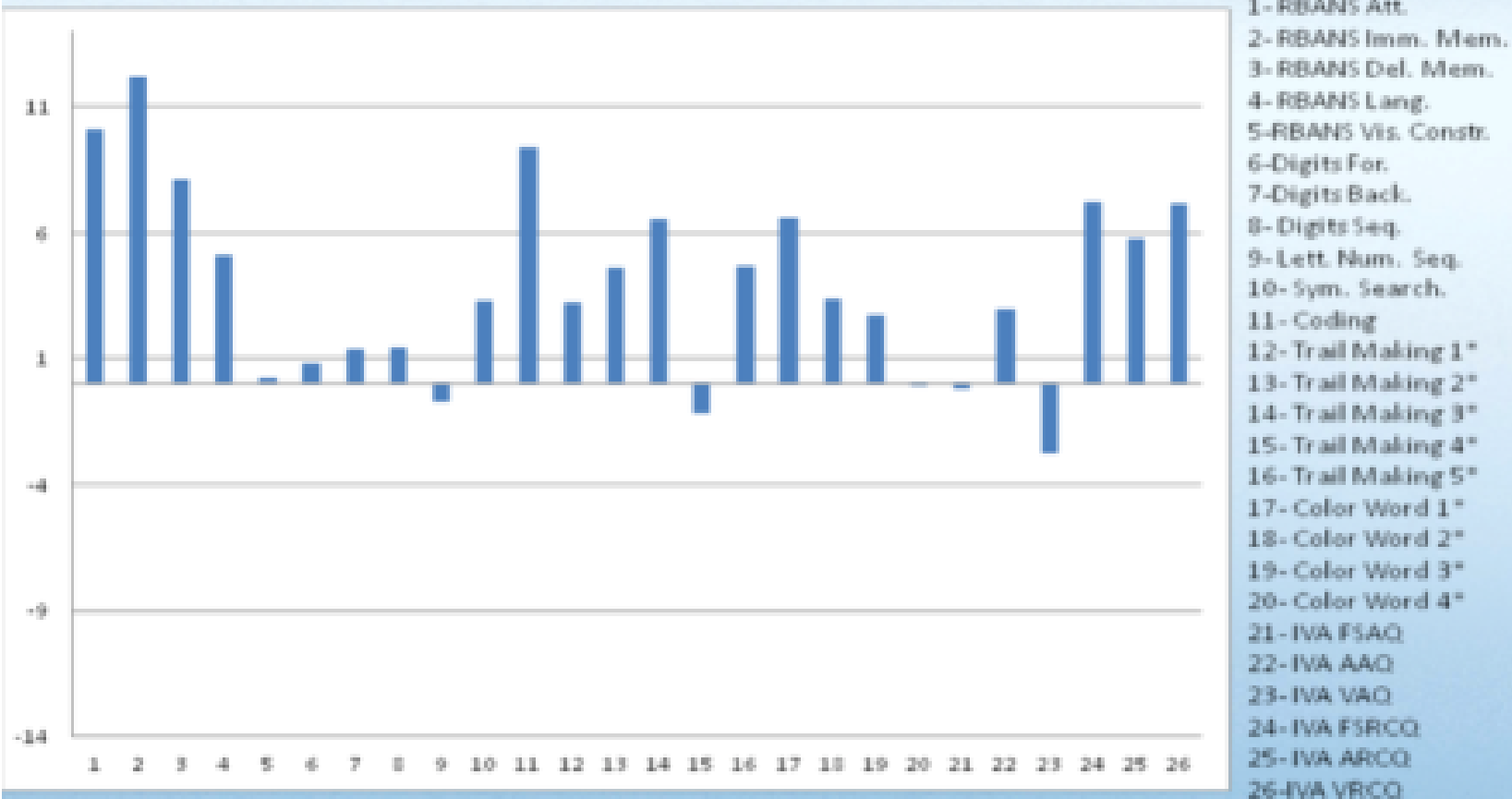
* p = .0001

** p = .0001

Color Naming Raw Scores



Post – Tx Mean Differences (IM – TAU) of Estimated Marginal Means for All Cognitive Measures



* Timed tests: subtraction order reversed to preserve scaling

Attentional Changes

RBANS Attention Index:

Auditory Attention

Digit Span

Processing Speed

Digit-Symbol Coding

GEE:

Estimated Marginal Means

Adj. Post Tx IM – TAU difference
= 10.13

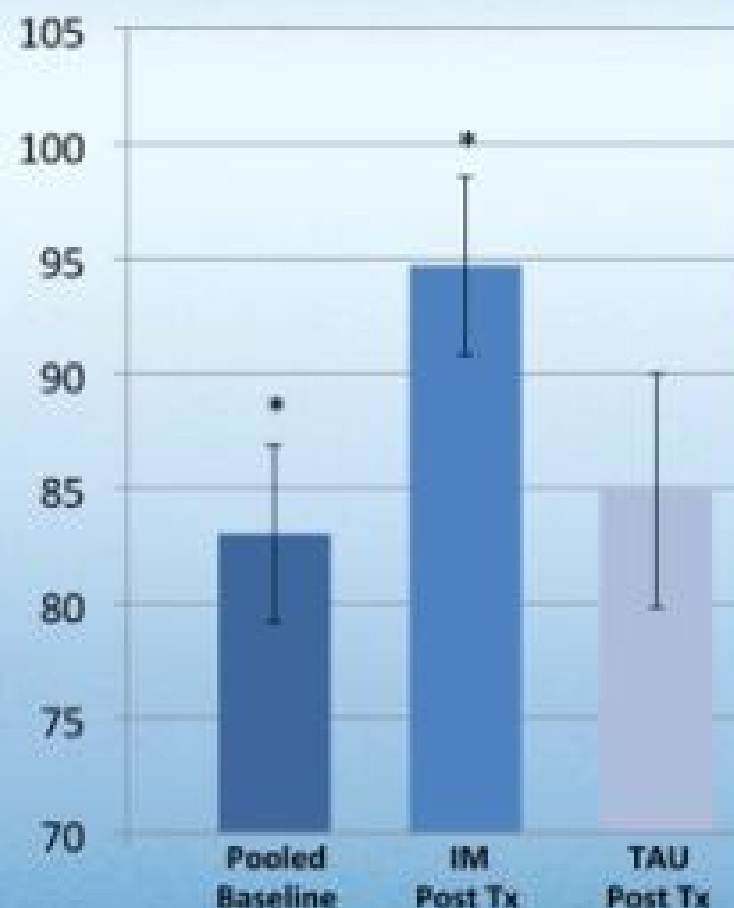
Cohen's $d = .511$

"medium" effect

Sidak Corrected pairwise

* $p = .004$

Attention Index Scores



Immediate Memory Changes



RBANS Imm. Memory Index:

Auditory Memory

List Learning

Story Learning

GEE:

Estimated Marginal Means

Adj. Post Tx IM – TAU difference
= 12.20

Cohen's $d = 0.768$ 😊

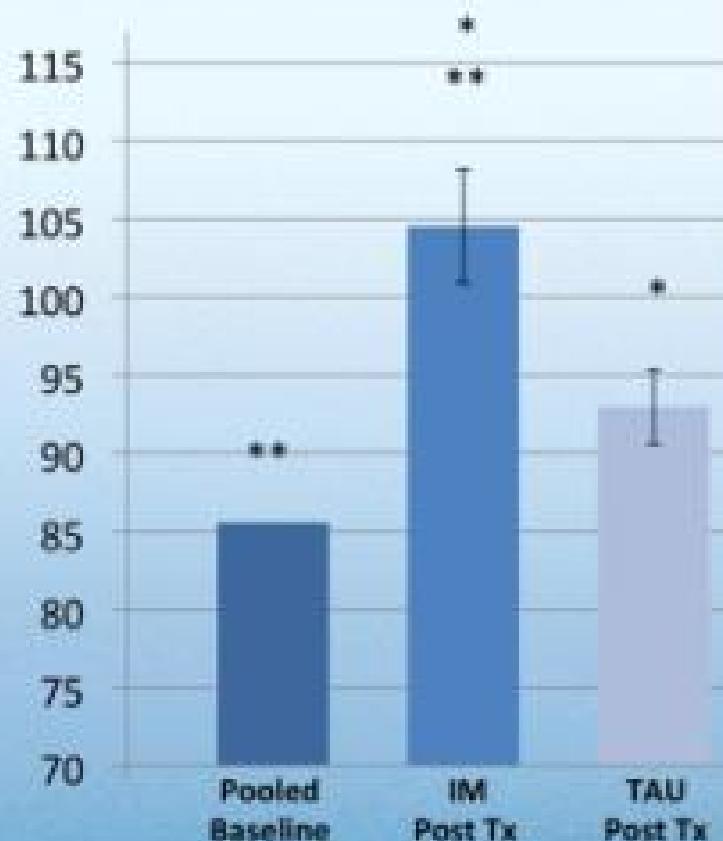
"Large" effect

Sidak Corrected pairwise

** $p = .0001$

* $p = .020$

Immediate Memory Index Scores



Language Index Changes



RBANS Language Index:

Object Naming

Verbal Fluency

Semantic Fluency

GEE:

Estimated Marginal Means

Adj. Post Tx IM – TAU difference
= 5.16

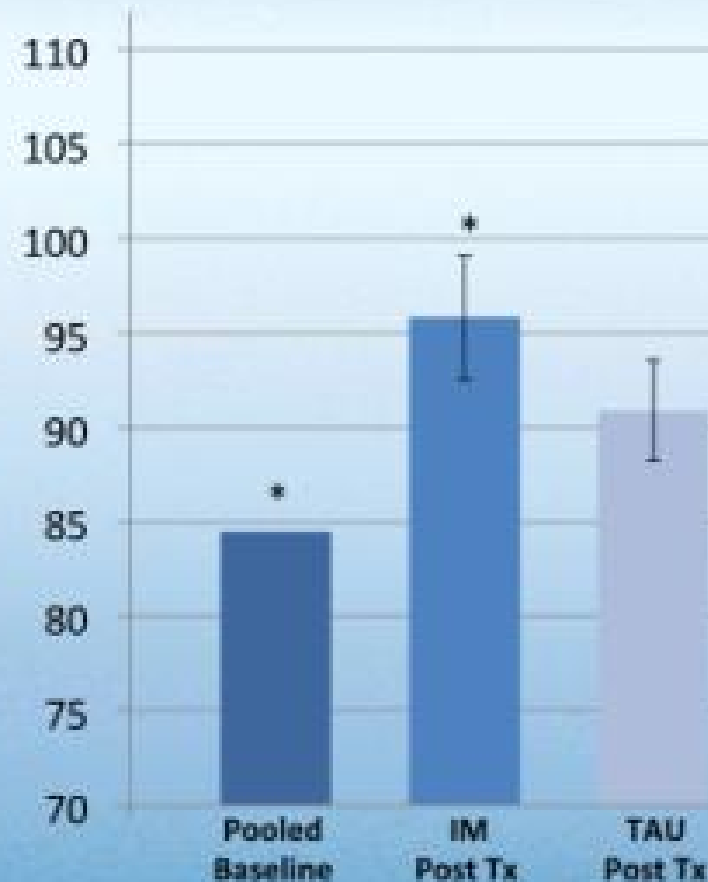
Cohen's $d = .349$

"Small-Medium" effect

Sidak Corrected pairwise

* $p = .0001$

Language Index Scores



Processing Speed Changes



WAIS-IV Symbol Search:

Visual Scanning

Symbol Matching

Processing Speed

GEE:

Estimated Marginal Means

Adj. Post Tx IM – TAU difference
= 3.29

Cohen's $d = .478$

"Medium" effect

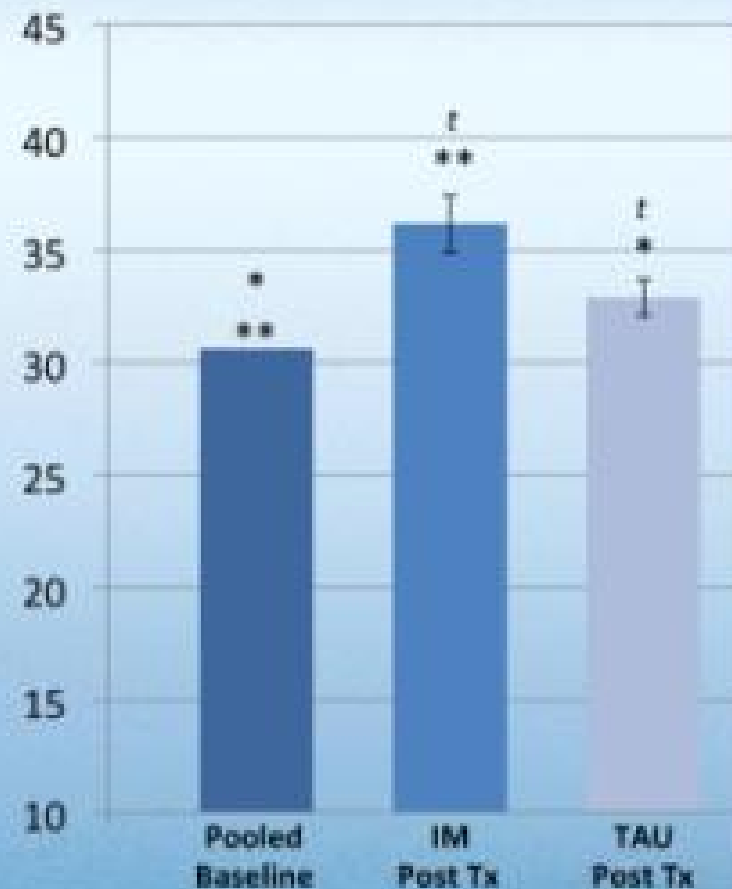
Sidak Corrected pairwise

** $p = .0001$

* $p = .039$

t: $p = .061$

Symbol Search Raw Scores



Processing Speed Changes



Coding Raw Scores

WAIS-IV Coding:

Visual Scanning

Working Memory

Processing Speed

GEE:

Estimated Marginal Means

Adj. Post Tx IM – TAU difference
= 9.41

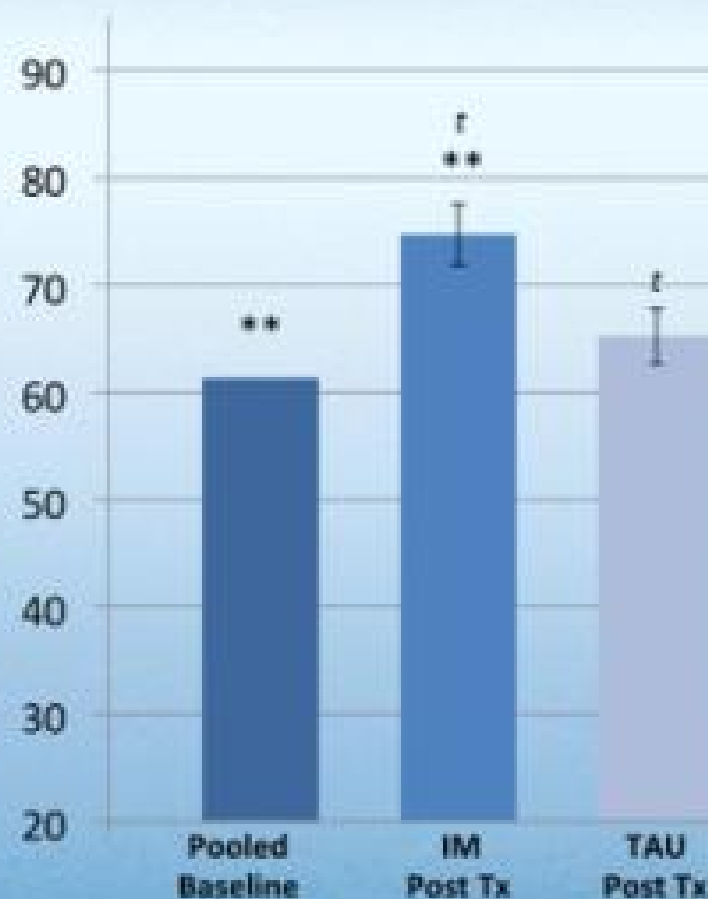
Cohen's $d = .630$

"Medium-large" effect

Sidak Corrected pairwise

** $p = .0001$

t: $p = .055$



Digits Sequencing Changes



WAIS-IV Digits Sequencing:

Auditory Attention

Working Memory

Executive (Sequencing)

GEE:

Estimated Marginal Means

Adj. Post Tx IM – TAU difference
= 1.43

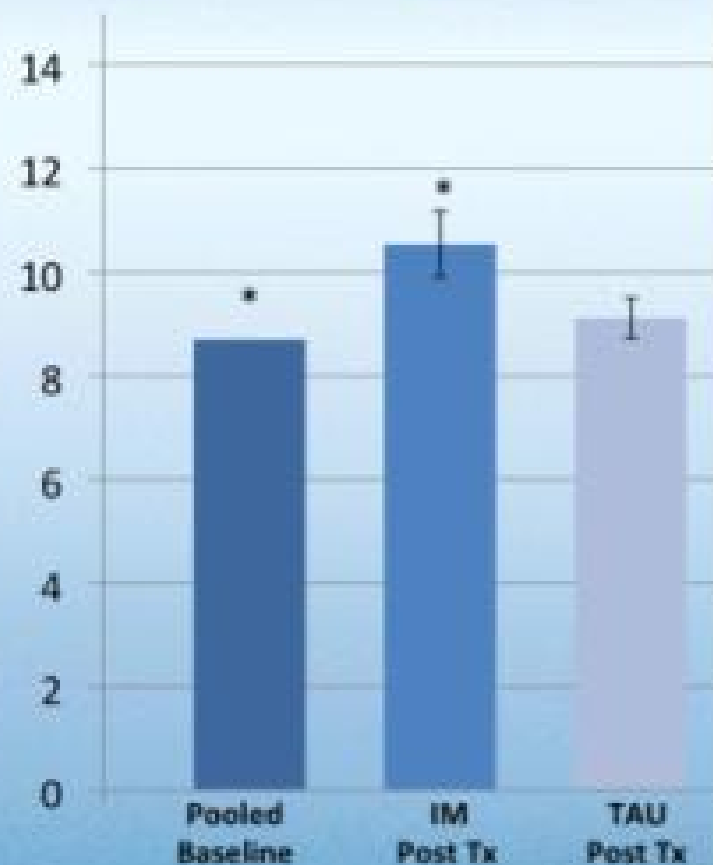
Cohen's $d = .588$

"Medium" effect

Sidak Corrected pairwise

* $p = .021$

Digit Sequencing Raw Scores



DKEFS Trails Motor Speed Changes



DKEFS Trails Motor Speed:

Motor Speed

Executive (Planning)

Measure is "Time to Complete"

GEE:

Estimated Marginal Means

Adj. Post Tx IM – TAU difference
= -4.70

Cohen's d = -0.790

"Large" effect

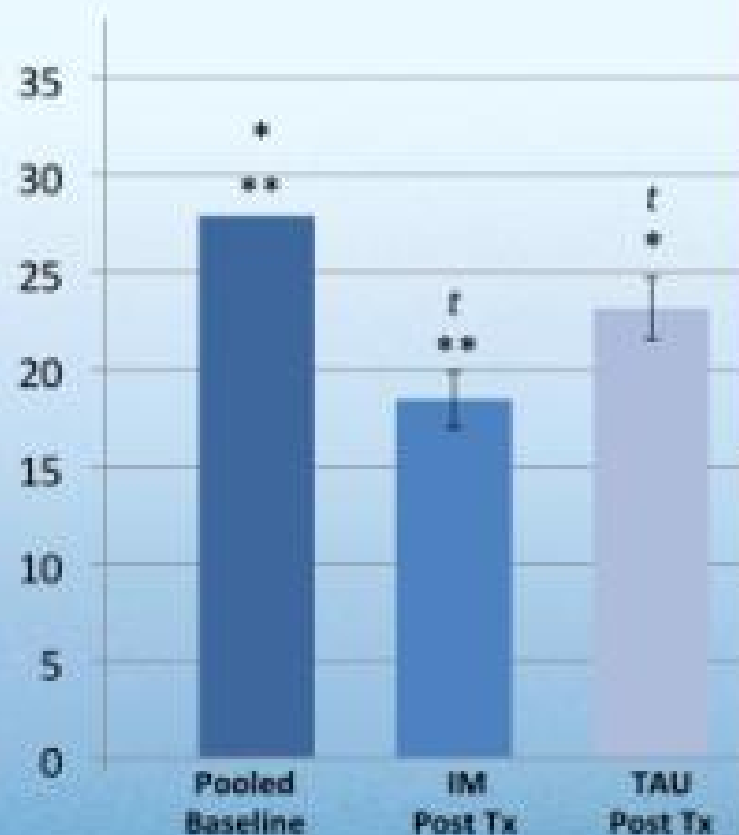
Sidak Corrected pairwise

* p = .015

** p = .001

t : p = .060

DKEFS Motor Speed Raw Scores



DKEFS Trails Letter Sequencing Changes



DKEFS Trails Letter Sequencing:

Processing Speed

Working Memory

Executive (Sequencing)

Measure is "Time to Complete"

GEE:

Estimated Marginal Means

Adj. Post Tx IM – TAU difference =
-6.54

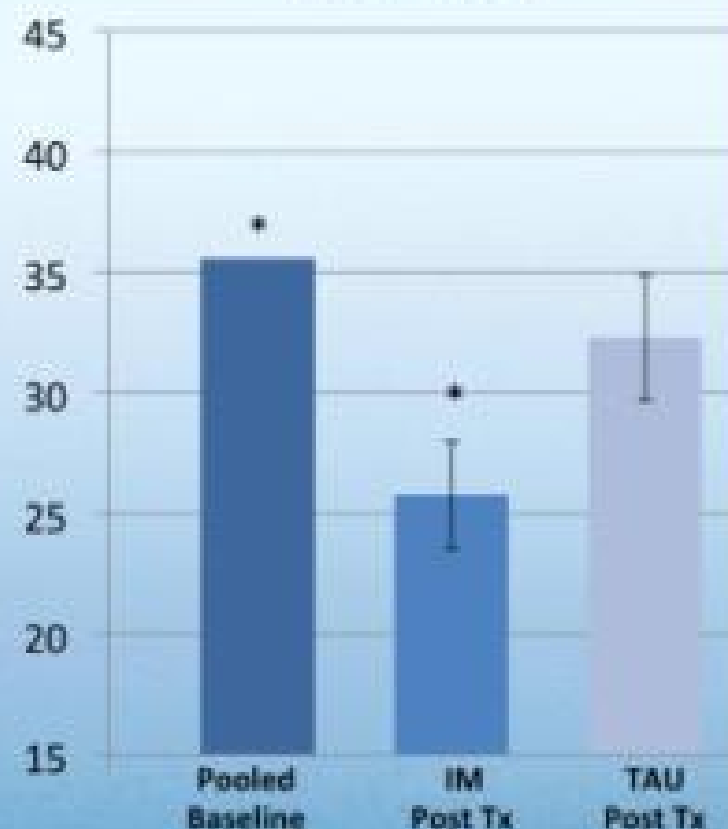
Cohen's $d = -.626$

"Medium" effect

Sidak Corrected pairwise

* $p = .0001$

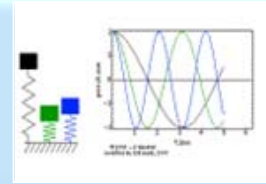
DKEFS Letter Sequencing
Raw Scores



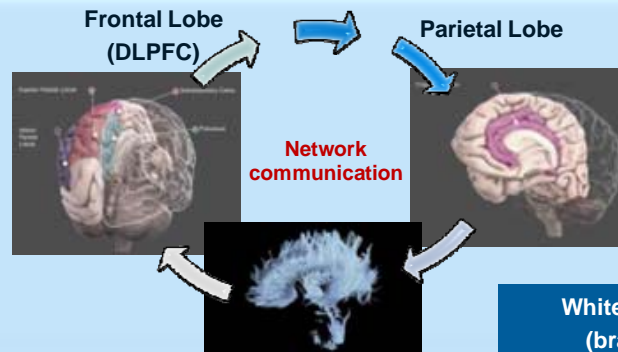


The observable IM treatment

Increases the **temporal resolution** (faster clock speed) of the **brain clock(s)** which improves **neural efficiency** of the brain

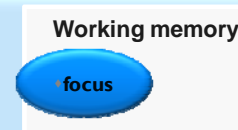


Improves **brain network communication efficiency** via **white matter tracts**, particularly between the **parietal-frontal regions** (**P-FIT neuro-model of intelligence**)



White matter tracts
(brain network communication infrastructure)

Improves **focus** (**attentional control** that maintains goal related information active in working memory) which in turn improves **efficiency of working memory**, the most central cognitive ability for new learning and performance



Knowledge in long-term memory.
Cognitive abilities.
Exec functions

Cognitive performance
(reasoning, comprehension, etc)

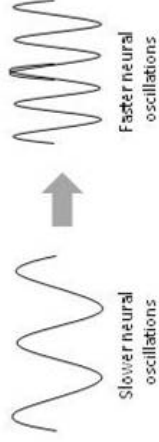
The observable positive outcome

Hypothesized IM effect at different “under the hood” explanatory levels
(based on brain clock and IM-specific research and theory)

Observable
IM treatment

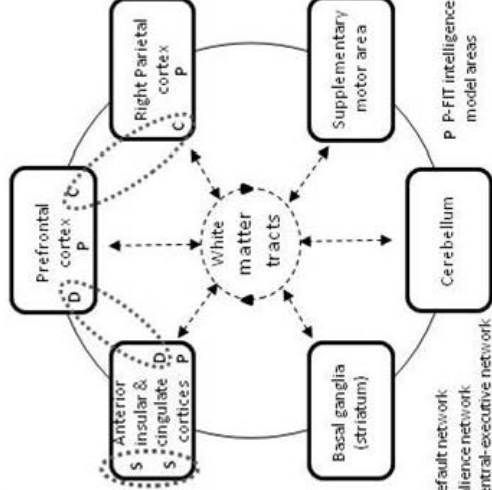
Three-Level Hypothesized Explanation of IM effect

(The mechanisms inside the rectangle are unobservable)



Level I: Brain Clock & Temporal Processing

Increased temporal resolution (faster clock speed—faster rate of oscillations) of the brain clock(s) which improves neural efficiency of the brain (temporal q)

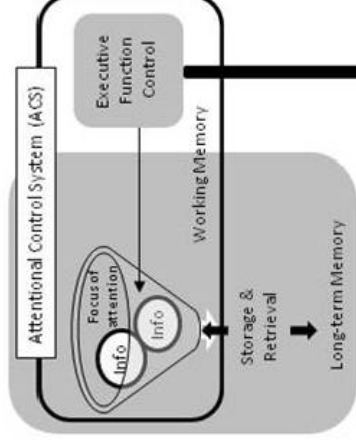


Level II: Brain Network Communication & Synchronization

Improved brain network(s) communication via increased speed and efficiency of white matter tract processing, particularly between bilateral parietal-frontal regions (P-FIT model of intelligence)

Level III: Attentional Control System

Improved focus via increased efficiency of the attentional control system (ACS) that maintains goal related information active in working memory and improved regulation of internal (mind wandering) and external distractions. Improvement in efficiency of executive functions and working memory results in better complex cognitive processing and learning



Observable
decisions,
cognitive or
motor
performance



Climb the Ladder to IM Success!



Advanced Webinars



Clinical Certification

IM Certification*

www.InteractiveMetronome.com → 877-994-6776

*Indicates Required Course

IM Provider Educational Path

At Interactive Metronome we understand that treating a pediatric patient is far different than treating an adult cognitive patient or even a fall risk patient. We are proud to present a library of courses to bring you up to speed with what you need to know to treat Pediatric and Adult patients. So you don't feel overwhelmed with our over 80 course library, we have broken our specialization into 3 tracks. Each track is packed with what you need to know and then you have the option to take it a step further with our extracurricular on demand webinar library! Below is your IM Provider Path to Success!

IM Certification*

It all starts with Basic IM Certification, you can take this course Live or as a Self-Study- **Note for the Self-Study you need to own or rent the IM equipment

Provider Coaching

Clinical Certification

If don't feel ready to train your first client, don't worry! The Clinical Certification Coaching will refresh your memory on how to set-up the equipment, go over the software features and give you more practical hands-on experience to get the confidence you need to start training clients. As an added bonus, this course is approved for CEUs (0.4 AOTA & 0.45 ASHA) and is FREE!

IM-Home Certification

Training your client in the clinic is ideal, but unfortunately it's not always feasible due to limited insurance co-pays, travel issues or competing modalities. That's why IM-Home was invented. IM-Home allows your client to train in the comfort of their home, but still gives you complete control of their training plan. This IM-Home Clinical Certification will focus on teaching you how to use the eClinic (IM's online training management tool) and have you experience the home-system on yourself using your FREE IM-Home Demo unit (*Only 1 per facility, you must own or rent IM Universe). Upon completion, you will be listed on the IM Locator Board as an IM-Home Certified Provider. As an added bonus, this course is approved for CEUs (0.3 AOTA & ASHA) and is FREE!

Specialization Tracks

Pediatric
Adult - Cognitive and/or Motor
Fall Risk Reduction

Continuing Education

We have over 100 1-hour courses to help get your creative juices flowing! Browse our Online Course Catalog and check out the Live Webinar Schedule on our IM University website.