

How to Activate a Developing Brain

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Why Do We Do What We Do?

Neuroplasticity- What Is It?

The ability for the brain to CHANGE

Repetition

Duration

Frequency

Specificity

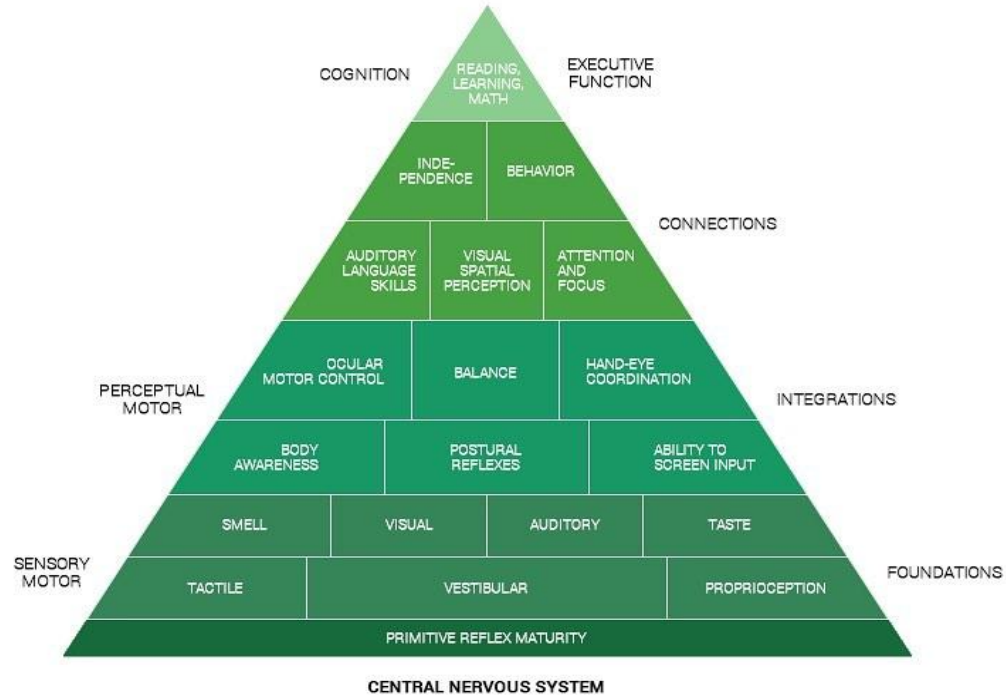
The core essentials needed for neurons to grow

Oxygen

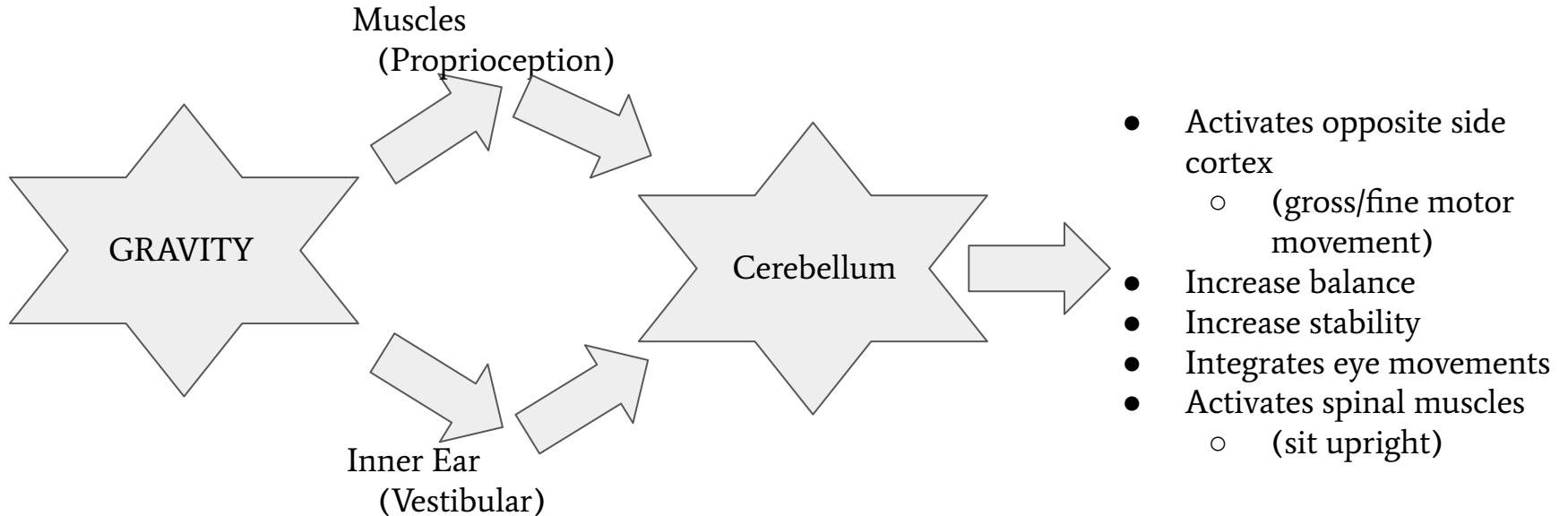
Fuel

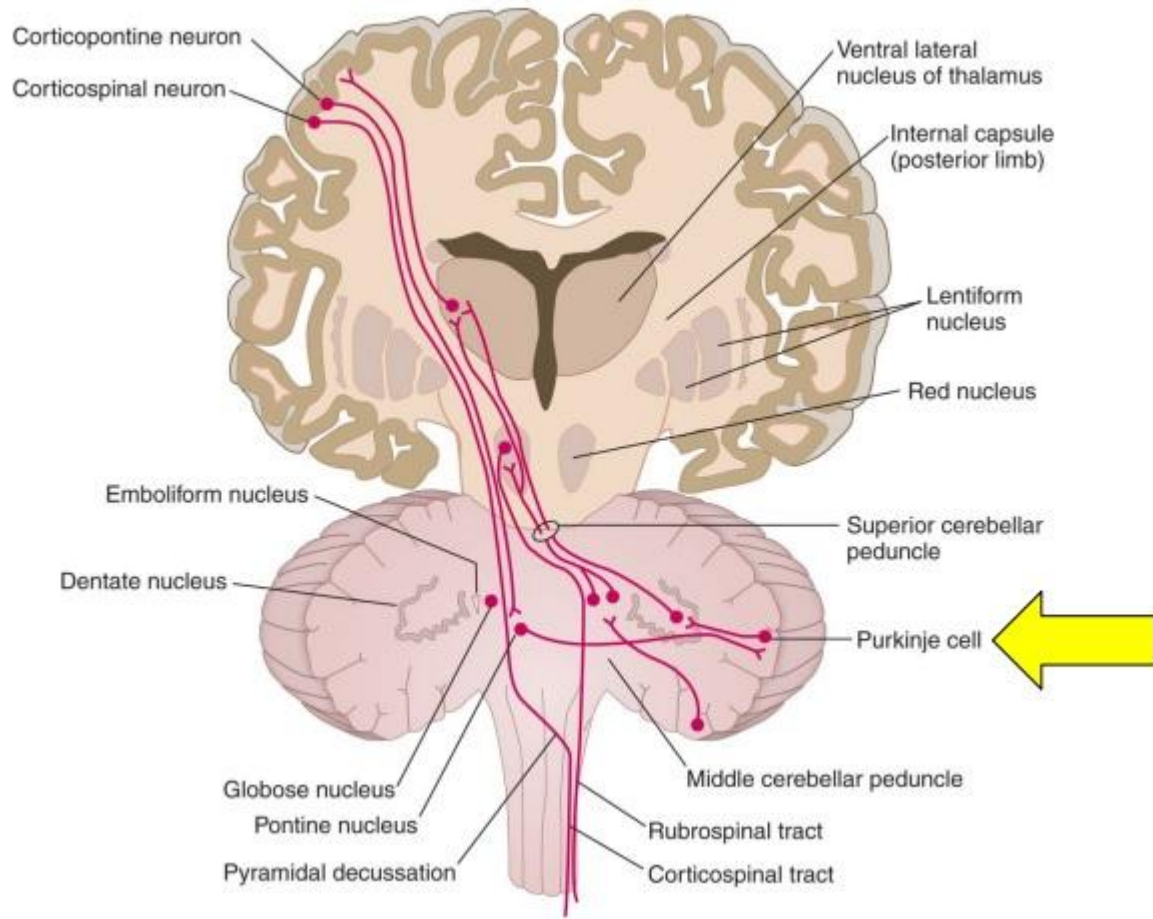
Activation

PYRAMID OF DEVELOPMENT and LEARNING

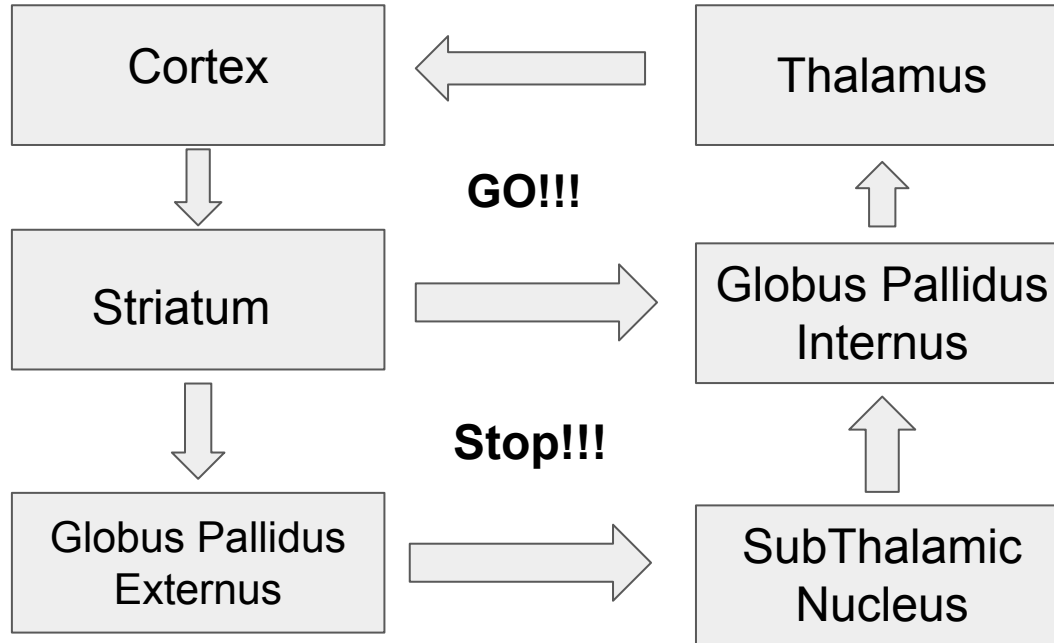


Foundational Brain Activation





The Basal Ganglia





Effects of Low-Level Laser Therapy in Autism Spectrum Disorder



Fig. 1 Aberrant Behavior Checklist (ABC) global score in the test (active treatment) and placebo group participants

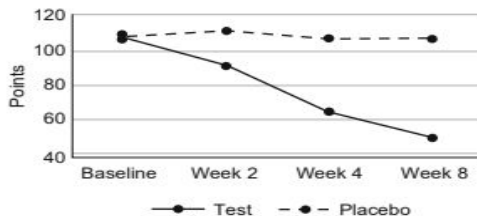


Fig. 2 Aberrant Behavior Checklist (ABC) irritability subscale score in the test (active treatment) and placebo group participants

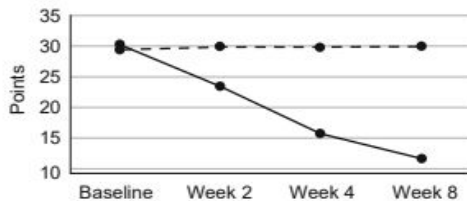


Fig. 3 Aberrant Behavior Checklist (ABC) lethargy/social withdrawal subscale score in the test (active treatment) and placebo group participants

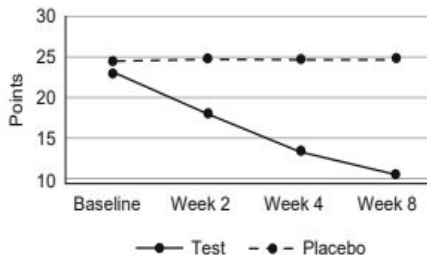


Fig. 5 Aberrant Behavior Checklist (ABC) hyperactivity/noncompliance subscale score in the test (active treatment) and placebo group participants

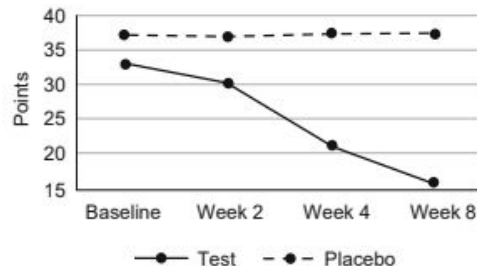


Fig. 4 Aberrant Behavior Checklist (ABC) stereotypic behavior subscale score in the test (active treatment) and placebo group participants

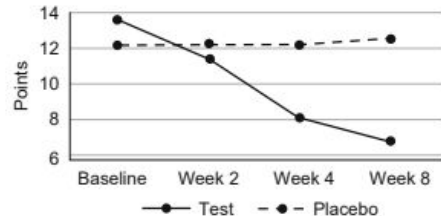
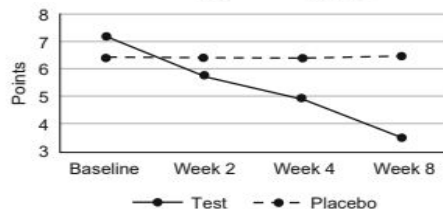


Fig. 6 Aberrant Behavior Checklist (ABC) inappropriate speech subscale score in the test (active treatment) and placebo group participants



TWELVE MONTHS FOLLOW-UP COMPARISON BETWEEN THE AUTISTIC CHILDREN vs. INITIAL PLACEBO (TREATED) GROUPS

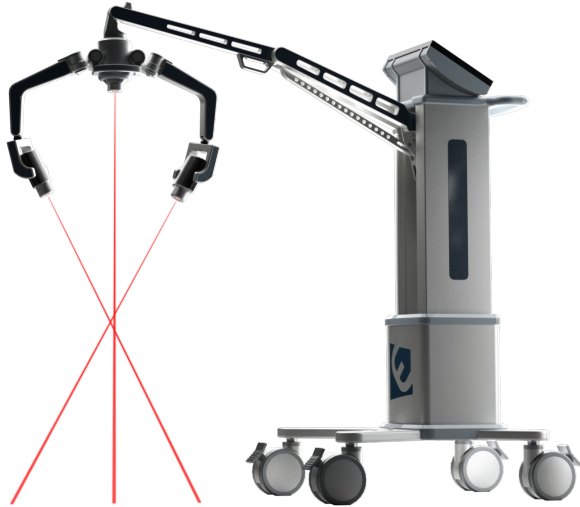
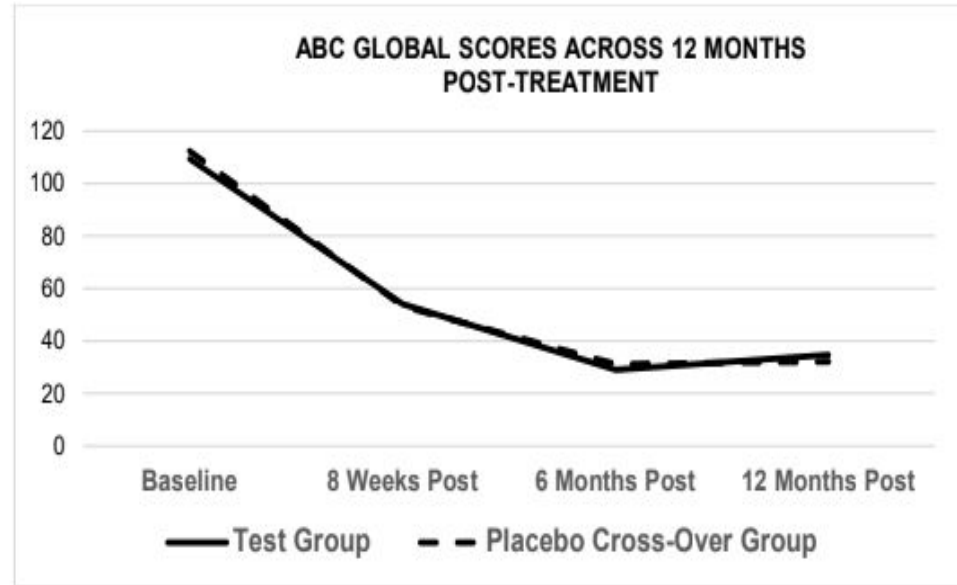


Chart 1: Mean ABC Global Score Across Long-Term 12-Month Evaluation



Benefits of Pulsed Electromagnetic Fields (PEMF)

- **Reducing inflammation and edema (Jerabek & Pawluk, 1996)**
- **Increasing ATP production (Ascherl, Blumel, Lechner, et al., 1985; Blank & Soo, 1992; Chen, Cui, Yue, et al, 2009)**
- Rebalancing circadian rhythm (Manzella, Bracci, Ciarapica, et al., 2015)
- **Improving circulation and blood supply (Bartko, Turcáni, Danisová, et al., 1988)**
- **Increased oxygen to the body's tissues (Warnke, 1992; Grant, Cadossi, & Steinberg, 1994)**
- **Healthy levels of growth factors and nitric oxide (Goodwin, 2003)**
- Increasing cell metabolism (Jerabek et al, 1996)
- Production of endogenous antioxidants (Singh, Khanduja, & Mittal, 1998)
- Enhanced detoxification (Singh & Khanduja, 1998)
- Wound healing and tissue regeneration (Blackman, 1988; Blank & Soo, 1992)
- Stimulating and rebalancing the immune system (McEver & Zhu, 2010)
- **Improved nerve conductivity and regeneration (Polk, 1992)**
- Promotion of growth gene factors (Goodwin, 2003; Lagrove, Bersani, Billaudel, et al., 2003)
- **Support of neural stem cell production (Li, Zhao, Xing, et al., 2002; Goodwin, 2003)**
- Reduced pain (Nelson & Esty, 2009, 2015)
- Autophagy (Marchesi, Osera, Fassina, et al., 2014)
- **Enhanced neurotransmitter levels (Zecca, Margonato, & Esposti, 1989)**
- Effect on monoamine function (Sieron, Labus, & Nowak, 2004)
- Reduced reaction time (Blackman, 1988)
- **Charge displacement from neuronal membranes of cortical neurons (Persinger & Saroka, 2013)**

Exciting Announcement- Coming Soon!!!



NNPA
NEURODIVERSITY NATURAL
PARENTING ASSOCIATION

Promo Code:
TLH4M2022

Natural parenting solutions for children with special needs.
Their health matters, your knowledge is everything.