Auditory Plasticity – Beyond the Ear

Talking Points Continued



Nature Reviews Neuroscience 11, 599-605 (August 2010) | doi:10.1038/nrn2882

Science and Society

Music training for the development of auditory skills
Nina Kraus & Bharath Chandrasekaran



International Journal of Therapy and Rehabilitation

International Journal of Therapy and Rehabilitation January 2015, Vol 22, No 1

The effectiveness of auditory stimulation in children with autism spectrum disorders: A case-control study

Bryan M. Gee, Et al.





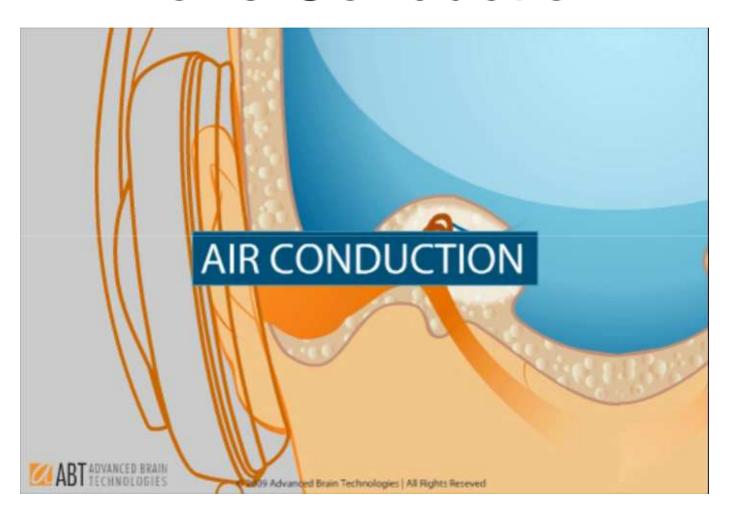
by ADVANCED BRAIN TECHNOLOGIES

SPECTRUM

Foundational brain training for management and reduction of sensory sensitivities.



Bone Conduction





Waves

waves

□ ⊕⊕

The multi-sensory audio system optimized for The Listening Program and inTime.



Nicoló



- 8 year old
- Trisomy 18 Mosaicism
- Protocol: TLP SPECTRUM w/ Waves multisensory audio system
- 2X daily (morning & afternoon) 15 min each
- Concurrent with other therapies;
 hyperbaric oxygen, hippotherapy,
 and bioenergy work

Nicoló

Results within first four weeks

- Suddenly seemed more aware of his environment
- More inquisitive and more observing
- Asking lots of Why's? about things
- "Somehow I felt TLP had triggered something in his brain"

Nicoló

Results after 2 months

- Improved sustained attention
- Less distractible
- Improved communication (initiating)
- Improved morophosyntactic production, more structured sentences, use of adverbs, and past tense verbs
- Reduced dysfluency
- Global motor skill improvement and coordination
- Improved postural control, for longer periods





Occupational Therapy International, 16 (1). 25-43.

A case study of a five-year-old child with pervasive developmental disorder-not otherwise specified using sound based interventions.

Amy J Nwora, Bryan M Gee



"Following intervention, John no longer demonstrated poor posture, atypical drive for touch, messy handwriting or difficulty with organization/structure.... John no longer demonstrated low frustration tolerance, difficulty making judgments, and generalizing to new situations, lack of tactfulness or inability to tolerate stress."

-Nwora and Gee

"A case study of a five-year-old child with PDD-NOS using sound-based interventions" Occupational Therapy International, volume 16, issue 1







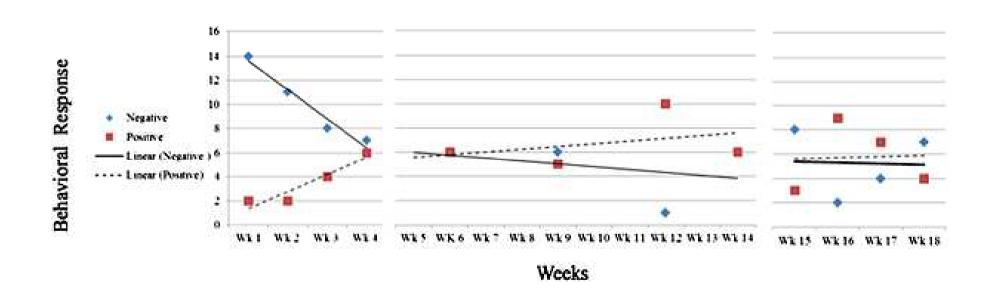
Occupational Therapy International, 21(1). 12-20.

Efficacy of a Sound-based Intervention with a Child with and Autism Spectrum Disorder and Auditory Sensory Over-responsitivity

Bryan M. Gee, Kelly Thompson, Kelly St. John



Efficacy of a Sound-based Intervention with a Child with an Autism Spectrum Disorder and Auditory Sensory Over-responsitivity





"I like to do my listening because the music is so pretty and it helps me not be so anxious. It helps me relax and keep calm."

- MaxAge 8 Autism



European Society for Paediatric Urology (ESPU) Congress Turkey April 2010

A pilot investigation into the effects of listening to modified classical music, including bone conduction, in improving toilet training outcomes for children with learning difficulties.

June Rogers MBE



MUSIC AND MEDICINE

AN INTERDISCIPLINARY JOURNAL

Music and Medicine October 2010, Vol. 2 no. 4 208-213

Evaluation of The Listening Program in Assessing Auditory Processing and Speech Skills in Children with Down Syndrome

Gwenyth Jeyes, Caroline Newton

