

Neurologic Music Therapy: Changing the Brain through Music



UNIVERSITY OF TORONTO
FACULTY OF MUSIC

<https://music.utoronto.ca/programs.php>



www.nmtacademy.co

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Today's Presentation

- Introduction to NMT
 - Clinical Vignettes
- Live demonstration

NEW THEORETICAL DEVELOPMENTS IN MUSIC THERAPY AND MUSIC MEDICINE

A PARADIGM SHIFT....

FROM SOCIAL SCIENCE MODELS....

**Music for Human Relationship Building and Well Being
Cultural Role and Values of Music to Achieve Therapeutic Response**

TO NEUROSCIENCE MODELS....

**Music Engages Brain and Behavior Functions
Based on the Neurobiology of Music Perception**

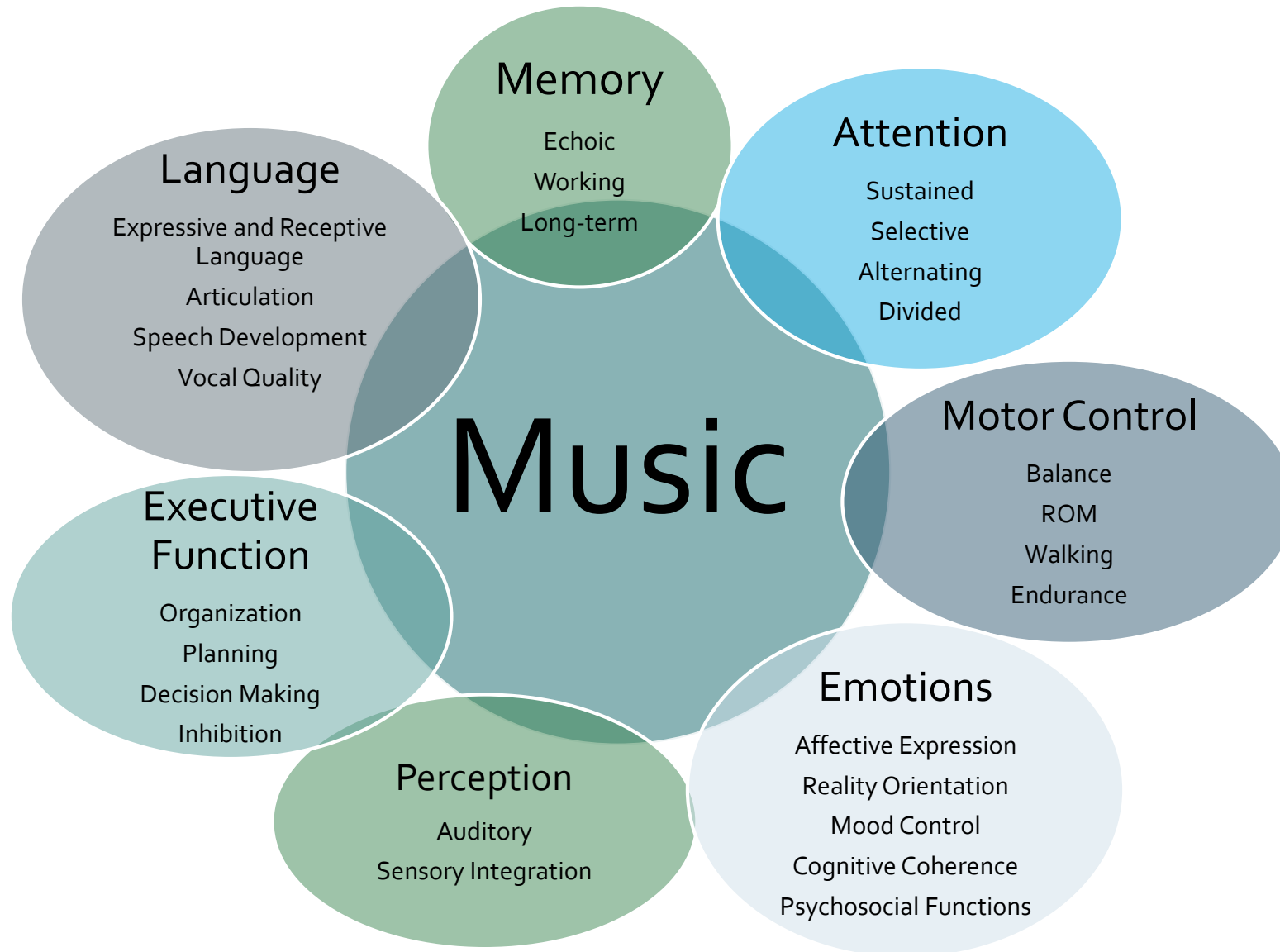
DRIVEN BY....

**Advances in the Neuroscience of Music
Evidence Based Medicine**

Neurologic Music Therapy

- A research guided clinical model which is driven by advances in neuroscience and the understanding of how music can influence and change non-musical brain and behavior function.

Not defined by population but by functional behavior
Based on overlapping Parallels between Musical and Non-Musical Behaviors



Applies music to **cognitive, affective, sensory, and motor dysfunctions**

Populations

- Neurologic rehabilitation
 - Neuro-pediatric
- Neuro-developmental
 - Neuro-geriatric
- Neuro-Psychological

Goals

- Rehabilitative
 - Adaptive
- Developmental

NEUROLOGIC MUSIC THERAPY

CLINICAL RESEARCH EVIDENCE IN....

SENSORIMOTOR REHABILITATION

RAS
PSE
TIMP

SPEECH AND LANGUAGE REHABILITATION

MIT
STIM
RSC
VIT
TS
OMREX
DSL
SYCOM

COGNITIVE REHABILITATION

MSOT
MNT
APT
MACT
MMT
AMMT
MEFT
MPC

Neurologic Music Therapy is a standardized system of clinical technique which use the functional perception of all properties of music to train and retrain brain and behavior function

