Music & Pediatric Cochlear Implants
Bringing Science to Intervention
Part II

ASHA Conference, November 22, 2008
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Chris Barton, MM, MT-BC
Hello, everybody (3X)
H-E-L-L-O!
Can you clap your hands, everybody? (3X)
H-E-L-L-O!
Can you snap your fingers. Everybody? (3X)
H-E-L-L-O!
Etc…

On the TuneUps CD
When music and song are not made available to them, the experience of children who are deaf or hard of hearing is unnecessarily restricted.

Daniel Ling
Agenda

1. Ten Premises of our work
2. Identify key elements in the TuneUps Approach (Barton & Robbins, 2007)
3. Integrate music into traditional intervention activities with CI child
4. Create a musical activity for CI child
5. Practice “musicing!” (in Nordoff & Robbins, 2007)
Ten Premises

1. Research suggests how brain processes music in NH and CI listeners

2. Caution needed when extrapolating from adult CI research data to children

3. Music must be *experienced*. You must “do” music or musicize.

4. Music should be integrated into rehab and incorporated into child’s everyday life.

5. Music & language share characteristics… developing one facilitates the other
Ten Premises

6. Music and Spoken Language also have important differences

7. Language is Confrontational; Music is Invitational

8. How we listen to music is similar to how we listen to language. We assign meaning based on past experience, then can predict what comes next

9. Music is helpful for CI children of all ages and stages of CI use

10. The most valuable musical instrument I have is my voice.
TuneUps Approach

An improvisatory method integrating music, spoken language and listening activities within the therapeutic setting

Chris Barton & Amy Robbins
Visit The Listening Room @ www.HearingJourney.com or call 1-800-678-2575
Music is like language. We hear the sound of the voice first, then we give meaning to the sounds we hear by dividing it into words, phrases and sentences. The difference is that music uses tonal and rhythmic patterns as language uses words.

—EDWIN GORDON
TuneUps! Tip #1

Your voice is the most important instrument you can own!
TuneUps! Tip #2

Don’t reserve singing only for “music time”
TuneUps! Tip #3

Use music purposefully and not as “background”
TuneUps! Tip #4

Always introduce the CD player and any other electronic device before you use it.
TuneUps! Tip #5

Experiment with using different voices/registers
John Locke

“The Child’s Path to Spoken Language”

“Communication is successful not when hearers recognize the linguistic meaning of an utterance, but when they infer the speaker’s intent from it.”
“This is another of the important connections between spoken language and music. In early intervention, we seamlessly weave music in and out of spoken language, and weave spoken language in and out of music.
TuneUps! Tip #6

Turn taking is essential
Meet Annabelle

- Diagnosed at birth through UNHS
- Severe bilateral loss
- Aided at 4 months
- EI begun immediately; Rocked to music spontaneously as one of first signs of auditory awareness
- Enjoys completing last word of familiar songs as a turn-taking and anticipatory game
Meet Yeahsen

- Deafness with multiple disabilities
- Branchial-Oto-Renal Syndrome
- Profound bilateral loss
- 1st CI (Med-El) at 21 mos; 2nd CI (Clarion) @ age 3
- EI from birth; Showed early attraction to music; We used music to work on voice quality/register; intonation; vocabulary; turn-taking; decreasing echolalia and more
Meet Dmitry

- Severe to profound bilateral hearing loss
- First implant 1/05
- Second implant 9/08
- First seen in MT at 2 yrs
TuneUps! Tip #7

Turn any important phrase into a song
Create a musical activity

• Think of a situation where you use a phrase or need compliance in therapy

• Put the phrase to music with rhythm, melody or both

• As a start, try the “ma-ma” interval

• KEEP IT SIMPLE!
TuneUps! Tip #8

Rhythm is a powerful cue for spoken language
Meet Mara

• First implant at 3.5 years (AB)
• Device failure within 1 yr.
• Re-implanted immediately
• Second device at age 9.5 (AB)
• Currently 11 years old

• Completed Gordon’s Intermediate Measures of Music Aptitude, (IMMA) June, 2006. Scored in 95 percentile
Mara poem

REMEMBER: Music and Poetry are Cousins!

“I never know
just where to go
When all the world
Is full of snow……”
Ants in my Pants

I’ve got ants in my pants
And I’m going to France
With my family and my Lance
Where my brother loves to run in his underpants

We’re gonna dance, dance, dance
In France, France, France
With my Lance, Lance, Lance
And my brother in his underpants

*Mara Kennedy, 2008*
Meet Jake

- Multiple Disabilities
- Profound bilateral hearing loss, Auditory Neuropathy & Autism
- 2002 first implant (AB)
- 2005 second implant (AB)
Benefits of Music for SASIs

- Vocabulary enhancement (ex: weary)
- Phonological awareness
- HOTS (Higher Order Thinking Skills)
- Parts of Speech (e.g., verbs)
- Aid to memorizing rote information
- Add rhythm/melody to difficult spelling words:
  “p-e-o-(clap)-p-l-e, people!”
Whirlwinds & Small Voices
Sustaining Commitment to Work with Special Needs Children

Available at: www.wordplay.ca
“Is it really possible that we can sing when we don’t feel like singing, that the singing itself lifts us up from the dark mood of overwork, disappointments and worries?”

Amy McConkey Robbins

Whirlwinds and Small Voices (2008)
Essential Instruments

1. Drums
2. Rainstick
3. Slide Whistle
4. Shakers
5. Clackers
6. Cymbals
7. Triangle
8. Bells
9. Rhythm Sticks
Essential Props

1. Push-up puppet
2. Yo-yo
3. Light-up ball
4. Tops
5. Scarves
6. Parachute
7. Paper plates
8. Sphere
TuneUps! Tip #1

Your voice is the most important instrument you can own!
Essential Games

1. TuneUps Lotto Game
2. Hullabaloo (Cranium)
3. Listening Lotto Series
4. Neighborhood Sounds Bingo (Cranium)
5. SingingCoach Unlimited (www.carryatune.com)
Music Perception

Which voice do you hear?

A

B
Music Perception

Which instrument do you hear?

A  piano
B  guitar
P-I-Z-Z-A at the Listening Room
By Chris Barton & Dave Sindrey
www.hearingjourney.com
P-I-Z-Z-A

Chorus:
We get P-I-Z-Z-A (3X)
We get pizza (PIZZA!)
Everyday

On the TuneUps CD
For more information…

www.westmusic.com
   The best instruments
www.hearthsong.com
   Wonderful, well-made toys
www.elderlymusic.com
   Instruments, CDs, teaching helps
www.musictherapy.org
   Home of the American Music Therapy Association
www.cbmt.org
   To locate a board certified music therapist
www.Educationalinsights.com
   Grammar Songs; States & Capitals Songs; History Songs, etc. CDs with Workbooks.


For more information…


For more information…

- eLearning
  *Bringing Music to Life*, Four-part Webinar Series
- Circle Time
- TuneUps CD
Central Canal
Creative Arts Therapies

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“Growing special kids through music”
Communication Consulting Services

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