"Preserving Self with Message Banking When Losing the Ability to Speak" Thursday, November 10, 2016 @ 7:00 PM EST

John M. Costello, MA CCC-SLP Boston Children's Hospital Director, Augmentative Communication Program and **ALS Augmentative Communication Program**

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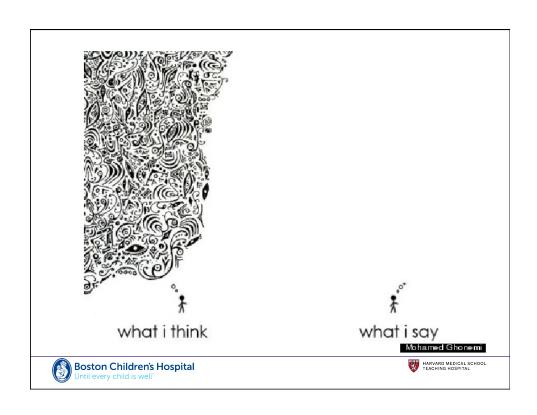
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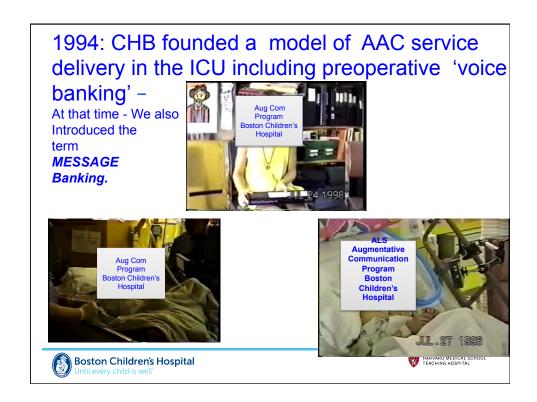


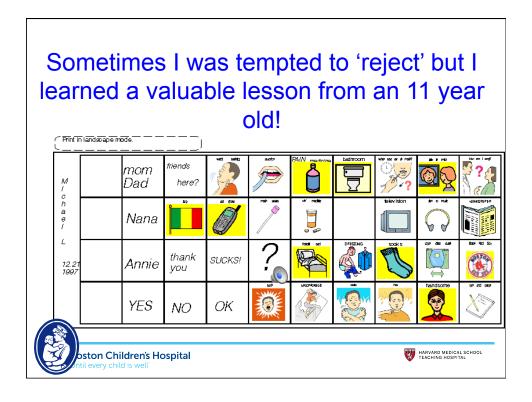














Message Banking with your own voice digitally

record and store words, phrases, sentences, personally meaningful sounds and/or stories using your natural voice, inflection and intonation.

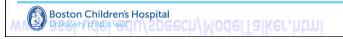
These messages are catalogued as .wav files and may then be linked to messages in a variety of augmentative communication technologies or sound storage files. This will allow you to 'retrieve' a message and speak it in your own voice but does not allow you to create novel messages by spelling. If you have recorded individual words, you may combine those words to create unique messages, although the output will sound more staccato than your natural speaking.



Voice Banking is a process of recording a large inventory of your speech that is then used to create a synthetic voice that approximates your natural voice.

Done successfully, this would allow one to spell and create unique messages and then speak them through a synthesizer that approximates one's natural speech. The science behind this process continues to be in development with betaversions of available software. The ModelTalker is one such project from the University of Delaware Speech Research Lab. The website is:

www.asel.udel.edu/speech/ModelTalker.html













Message Banking

- Introduce concept/definitions and idea of <u>'technology agnostic'</u>
- Practice recording with a hand held recorder to support high quality recordings 'in the moment'.
- Share clinical stories and outcomes and provide concrete examples
- Provide full handout with definitions and thousands of examples from people with ALS
- Download, playback, label and store audio files, providing guidance for improving quality if needed.
- Review potential technologies that could accommodate message banking across varied platforms.
- Provide person with ALS with their own recorder to take home and use to functionally record.

Message Banking .wav technology given to people with ALS







- set at 16/44 baud rate
- Must use wind guard
- Hold close to mouth for best quality
- Practice timing of push speak – push

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TERMINOLOGY:

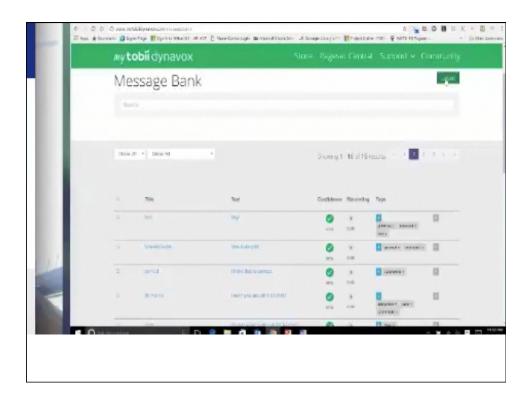
Legacy Messages are those messages, often delivered with unique intonation and prosody that are unique or particular to you. It may be a 'trademark' message you say or it may be a trademark delivery of a message that many people say. A legacy message does not need to be meaningful to the general population instead it may have unique and personal meaning to only you and a loved one. Further, a legacy message does not need to be real words to be meaningful. It may be the way you clear your throat in a sarcastic manner to communicate "I told you so" or it might be the invented pet name you have for a loved one delivered with your unique voice, intonation and prosody. Similarly, legacy message may be that stereotypical thing you say after your favorite sports team scores or it may be a unique greeting you deliver to friends. Those close to you may be helpful with identifying these Legacy Messages because sometimes they are so naturally part of socially relating with others, you may not even be aware you are 'known' for them.



64 page handout will be on new ALS website but can be found now as the first comment under the announcement of this webinar (dated 11.9.17)

on our clinic facebook page: https://www.facebook.com/ ACPCHBoston/





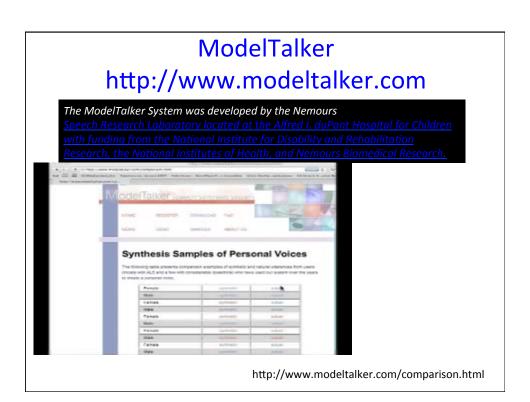
Voice Banking

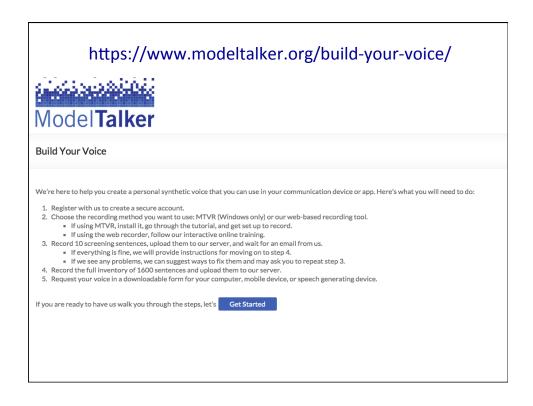
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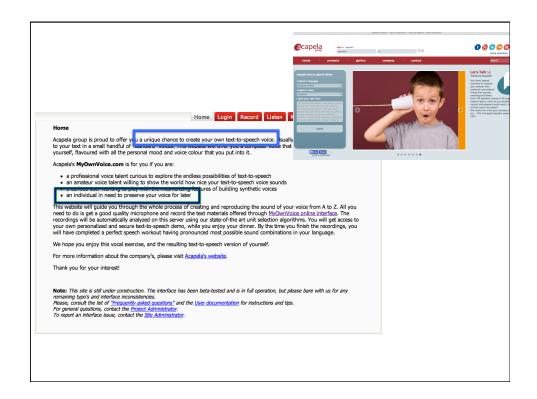
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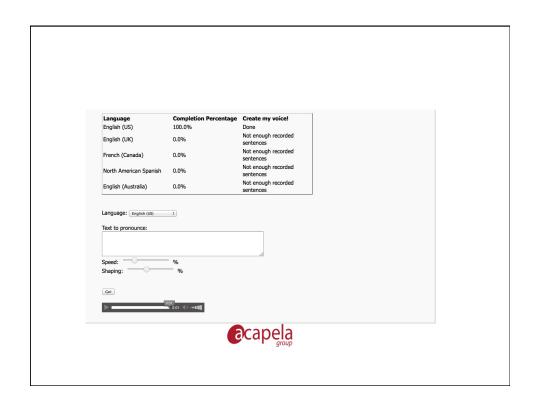
AssistiveWare Video July 2012





Custom voice created by Scottish company 'Cereproc' http://www.cereproc.com/en/home





Dr. Rupal Patel, VOCALID

http://www.vocalid.co/how



- ◆ Model Talker
- ◆Cereproc (Edinburgh Scotland)
- ◆OKI Electronic Industry Co Japan
- Edinburgh Voice Banking and Reconstruction project
- ◆Acapela project
- **♦**VOCALID



Costello, j.m. 1999

From: Nora

Date: Monday, August 8, 2016 at 11:56 AM

To: John Costello <john.costello@childrens.harvard.edu>

Subject: update

It is no exaggeration to say that having MY VOICE in my Tobli board makes me want to live!

I sang Happy Birthday to my one year old grandchildren on Saturday. I cracked some hysterical jokes.

I made my husband weep for joy on our anniversary.

It works well enough outside at church. Here I mostly say I love you over and over.

Keep up the good work,

Nora



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