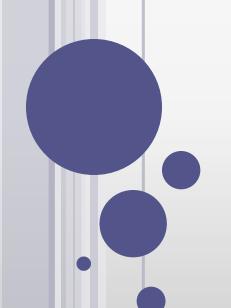
The Role of a Multi-disciplinary Team Clinic



Marion Downs Hearing Center at the University of Colorado Hospital Aurora, CO

> Shannon Burns, AuD, CCC-A Audiologist

Marion's CMPASS Clinic

<u>CO</u>lorado <u>M</u>ulti-disciplinary <u>P</u>rogram for

Assessment Strategies and Support

"Helping Those with Hearing Loss Navigate the Way to Better Communication"

Team Members...

- •Audiologists
- Speech Language Pathologist / AV Therapist
- •Parent Advocates
- •Adult Mentor / Role Model
- ODevelopmental Pediatrician / Geneticist
- Genetics Counselor
- •Neurotologist
- Child Psychologist

Team Members Continued...

- Pediatric Nurse Practitioner / Child Development Specialist
- •Case Manager (4th year AuD externs)
- •Program Support Assistant
- ∘Social Worker future addition
- Occupational Therapist future addition

The Clinic Day

- Specially designed schedule to address the family & child's needs
 - Full day of appointments/evaluations
 - Parents encouraged to bring snacks, toys, etc.
 - Lunch break for family / Provider team meeting
 - Each provider compiles list of recommendations
 - Family leaves with list of recommendations
 - Formal team report to follow by mail



When to refer?

- Children newly identified with hearing loss
- Any type and degree of hearing loss
- Concern about progress
- Delayed speech and language development
- Questions regarding appropriate technology and intervention
- Cochlear implant consultations
- Interest in genetic counseling /testing
- Questions regarding school placement/services
- Children/families from outside clinics looking for 2nd opinions or more information



What are parents looking for?

- oAnswers!
 - Pieces to the puzzle
- •Support
- Understanding
- Confirmation
- •Information /Advice / Guidance
- •Next steps
- Referrals to other providers
- Educational support



Benefits of Parent Advocates & Adult Mentors

- Families can feel alone and scared about what the diagnoses could mean...
 - Hearing loss, syndrome, autism, developmental delays, sensory integration, etc.
- Moral support / Listening / Empathy
- Sharing their own personal stories
- Connecting families with community events
 - Hands & Voices
- Meeting other families in similar situations
 - Guide by Your Side Hands & Voices

Benefits of Case Managers

- Compile history prior to clinic day to share with team
- Shadow family throughout day
- Provide list of findings/suggestions
 - Second set of ears for the family
 - Taking notes for family throughout the day
- Articulate family concerns/questions perhaps not addressed during team meeting
- Type formal reports to be sent to family and other providers

Benefits of a Team Approach

- Team collaboration
 - 15 heads are better than one!
- •Provide diagnoses and treatment plans
- •Referrals to other professionals
- •Help family get informed and connected
- •Complete all evaluations/consultation in one to two days

Feedback from Families...

- "Great experience overall. We learned a lot of things."
- "Long day but worth it. Very helpful and informative."
- "What a great team of people who care!"
- "Having someone take us from one appointment to the next was helpful."
- "We're not crazy! Our concerns were confirmed and validated."
- "A lot of information to process"
- "A good place to start, now the work begins."

Cases...

Case #1

- o 3 year old male
- History:
 - ANSD bilaterally; Presented as profound loss consistently
 - Right CI 20 months of age
 - Objective measures absent (no NRT or eSRT responses)
 - Good responses with CI initially; Normal P1 response
 - Very limited progress in language/communication (spoken or sign)
 - Difficulties mapping/testing using VRA or play
 - Sensory integration concerns
 - Absent P1 response later on; No interest in listening; Low communicative intent

Case #1 continued...

Questions/Concerns

- Good/bad hearing days with CI?
- Child loves to wear CI but no progress in auditory skill development
- Parents interested in 2nd CI (left ear)
- Autism spectrum disorder?
- P1 now absent
- Parents wanted 2nd CI

Case #1 continued...

- Results / Recommendations:
 - New HA trial with non-implant ear3-6 months
 - Repeat P1 testing
 - Continue weekly speech, language, listening therapy
 - Continue OT services
 - Consider 2nd CI in 3-6 months
 - 2nd CI completed at 39 months of age
 - Improved results; interest in listening; communicative intent

Case #2

- o 30 month old male
- History:
 - ANSD; hyperbilirubinemia; multiple blood transfusions
 - Maternal alcohol abuse during pregnancy
 - Child in custody of aunt/uncle
 - Binaural HAs, consistently hears better with HAs; Excellent VRISD scores
 - Very slow progress in speech/language development
 - Using some sign language (limited)

Case #2 continued...

• Questions / Concerns:

- Sensory integration issues
- Hyperactivity
- Preschool issues due to behavior
- Feeding concerns; Slow growth; Small size for age
- Dysmorphic features
- Fetal alcohol syndrome?
- Fragile X syndrome?

Case #2 continued...

Results / Recommendations

- Confirmation of Fetal Alcohol Syndrome
- Genetic testing for Fragile X syndrome negative
- Special pre-school placement
- OT services regarding sensory issues
- Continue HA use during all waking hours
- Additional speech/language therapy

Case #3

- Age: 17 month old male
- History:
 - 2nd opinion
 - Child diagnosed with ANSD in at least one ear
 - Behaviorally: right ear mild to moderate, left ear profound
 - Strabismus; nystagmus
 - Delayed global development
 - Not walking, unsteadiness
 - Normal pregnancy/delivery
 - Parents concerned re: meconium aspiration

Case #3 continued...

- Questions / Concerns
 - Balance function?
 - Vision?
 - Auditory discrimination?
 - Neurological component?
 - Parents: Will he be able to function normally? Will he be able to contribute to society?

Case #3 continued...

• Results / Recommendations:

- Trial with amplification is recommended in at least one ear; Can start with loaner aid and apply for funding
 - One ear presenting as normal now, profound other ear
 - Parents deferring any type of amplification at this time
- Ongoing, regular monitoring of behavioral hearing thresholds and discrimination unaided and aided
- Neurological evaluation recommended rare syndrome diagnosed
- Connect with other families You are NOT alone!

Case #4

- Age: 14 month old female
- History:
 - Bilateral severe to profound SNHL, identified at birth
 - No significant benefit from traditional amplification
 - Not walking; Sitting up with assistance; Crawling
 - Stiff and rigid gross motor movements
 - Bilateral clonus; Leg braces

Case #4 continued...

- Questions / Concerns:
 - Balance function?
 - Speech/language development?
 - General motor planning issues?Apraxia?
 - Cochlear implant candidate?

Case #4 continued...

Results / Recommendations

- Consult with pediatric OT regarding motor planning concerns and possible apraxia of speech
 - Diagnosed with apraxia of speech
- Balance testing VEMPs normal bilaterally
- Consider consultation with physical therapist
- Proceed with team CI consultation
 - Patient received simultaneous bilateral CIs at 16 months of age
 - Excellent speech understanding; Excellent parent commitment and support.

Case #5

- Age: 5 yr old female
- History:
 - Bilateral profound SNHL identified at birth, etiology unknown
 - Bilateral CIs placed 2005 and 2008
 - Failure with one ear, re-implanted
 - Excellent receptive language / speech discrimination with CIs
 - Diplegic spastic cerebral palsy that was diagnosed at 18 months
 - History of dysphagia
 - Poor balance and abnormal gait
 - Strabismus surgically corrected
 - Global developmental delays
 - Walked at 2.5 years, toilet trained at 5 years, speaks in full sentences but is difficult to understand

Case #5 continued...

- Questions / Concerns
 - Oral motor concerns
 - Speech articulation concerns
 - Cognition normal?
 - •Mother feels that she is "cognitively normal but in a body that doesn't work so well." But not sure.
 - What will be the best method of communication?
 - Are we doing all the right things for our child? Could we be doing more?

Case #5 continued...

Results / Recommendations

- Referred for general genetic work up family interested
- Referred for full developmental assessment to include cognitive testing
- Continue with current audiologist for CI testing/mapping
- Continue with both speech/language therapists
 - One for oral motor and the other for speech/language

Contact Information

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Shannon Burns, AuD, CCC-A 720-848-2800

Questions

