

Burwood Park Foundation

UPDATE ON RESEARCH AND INFORMATION 2019



Search of last 3 years – thanks to Dom at the Action on Hearing Loss Library London SOME KEY STUDIES AND A PERSONAL SELECTION



2016

Borders et al (2016) A review of educational practices for deaf/hard of hearing students with comorbid autism; Deafness and Education International 2016 vol 18 no 4 p189-205)

- Highlighted a similar picture in USA as we experience in UK
- Need for single case study design research as individuals vary so and the cohort is so small



2017

- Michele Friedner & Pamela Block (2017) Deaf studies meets autistic studies, The Senses and Society, 12:3, 282-300 (Chicago/New York)
 http://dx.doi.org/10.1080/17458927.2017.1369716
- Studies working in isolation
 - each..analysed differently-one linguistic and cultural, and one pathological
- Looking at sensory solidarities in both side by side offers insights into:
 - sociality, identity and community;
 - interdependent and multi modal communication



Jessica A. Scott & Sarah Grace Hansen 2018 USA

Working with Dual Diagnoses: A Survey of Teachers Serving Deaf or Hard of Hearing Children Who Have Autism Spectrum Disorder

- Explored teachers' feelings and aptitude to teach
 - 1. What was education and training?
 - 2. Did they feel prepared, resourced, supported?
 - 3. What strategies were used in teaching?
- Few novel practices mostly adaptations
- Each using strategies known in their specific field
 - Labelling and visual support
- Under resourced, under prepared and under supported, impacting delivery
- Need cross training and research applicable in both fields



Lachowska et al 2016 Poland

Cochlear Implantation in autistic children with a profound sensorineural hearing loss

- To assess the benefits of implantation
- 6 boys unilateral implants on right; Implanted av age 1.8years
- Study 43 months post implant
 - Medical history, reaction to music and environmental sounds, Ling six sounds, onomatopaeic word test
 - Questionnaire for parents
 - Sound processor fitting sessions and data
- Poor eye contact, no gestures, screaming, few words, no willingness to follow therapist, slowly improving receptive skills
- All liked wearing device, reduced anxiety, benefits in family interaction
- Mapping and sensitivity, more time, wider outcome measures, realistic prep



Wiley et al 2018 USA

- Understanding the Needs of Families of Children Who Are Deaf/Hard of Hearing with an Autism Spectrum Disorder
- Looking for factors re carer's stress and needs
- 6 families with dual, 4 deaf, 3 ASD
- Qualitative questionnaires
- Not feeling connected to support family networks for deaf; not fitting in with families of ASD leading to isolation
- Professionals need to
 - Know specific stressors and recognise reslience too
 - Understand communication and behaviour needs
 - Integrate services



Tanya Denmark et al 2018 UCL London

Signing with the Face: Emotional Expression in Narrative Production in Deaf Children with Autism Spectrum Disorder

- 12 TD from deaf schools, 10 deaf and ASD from NDCAMHS
- All severe or profound, similar amplification
- At least at phrasal level, all in bilingual settings
- BSL Production Test-3 minute language free story re tell
- Scoring template of emotional facial expressions, videoed for analysis
- Two raters scored the narratives
- Scores based on number of productions and how many facial actions against target
- Deaf/ASD show subtle differences in production, reflecting difficulties of hearing ASD
- Deficit in motor skills might be contributory
- More research needed-linguistic facial expressions might be easier as rule based



MESHGUIDE <u>Mapping Educational Specialist know</u>How

STEPH DAWSON AND JOYCE SEWELL-RUTTER



AUTISM AND DEAFNESS

- <u>http://www.meshguides.org/autism-and-deafness/</u>
- BATOD Foundation initiated the topic and funded the work
- Evidence based on line information...
- Where is the evidence? Case studies /snapshots of practice..
- Small group hard to get contributions
- Populated certain topics to get started

Seeking more case studies and interest



Ear Foundation event March 2018

Presentations from

- Hetty Malcolm-Smith A Parents' Perspective
- Christi Yoshinaga-Itano Considerations in Assessment
- Amy Stephens Sensory Strategies
- Julie Kosaner Cl users with ASD
- Amelia Ralph-Lewis DIADS research
- Hannah Ager Importance of Multi Disciplinary Team
- Chris Rocca-Music for Communication



Ear Foundation event March 2018

- Early Predictors of Autism in Young Children Who Are Deaf or Hard of Hearing: Three Longitudinal Case Studies 2014
- Elizabeth Cameron Kellogg, M.A., Amy Thrasher, M.A., CCC-SLP,1 and Christine Yoshinaga-Itano, Ph.D.
 - Using 3 case studies –analysed early assessment data (starting at 9 months) for three children who were deaf and later diagnosed with autism
 - Showed early warning signs-suggested as 'red flags' for dual diagnosis in other cases



Focus of Christine's presentation

Based on Expert Experience & Literature, we will address:

Epidemiology of the dual diagnosis	"Red flags" for recognizing/screening ASD in D/hh children	Assessment considerations
Implications of dual diagnosis for intervention	Resources for family support	Educational advancement of providers

Articles linked with next slides

Seminars in Speech and Language (2014)

- Screening, Diagnosing and Implementing Interventions for Children who are deaf or hard of hearing with autism spectrum disorder
- Co-Editors: Christine Yoshinaga-Itano, Ph.D. & Amy Thrasher, M.A.

Current practice in Colorado USA

- Emerging work on deafness and autism
- Still only 3 clinics across USA with joint diagnosing facilities
- Have sufficient data to track normal development in deaf children
- Alerting professionals and families to any atypical development
- Use of LENA

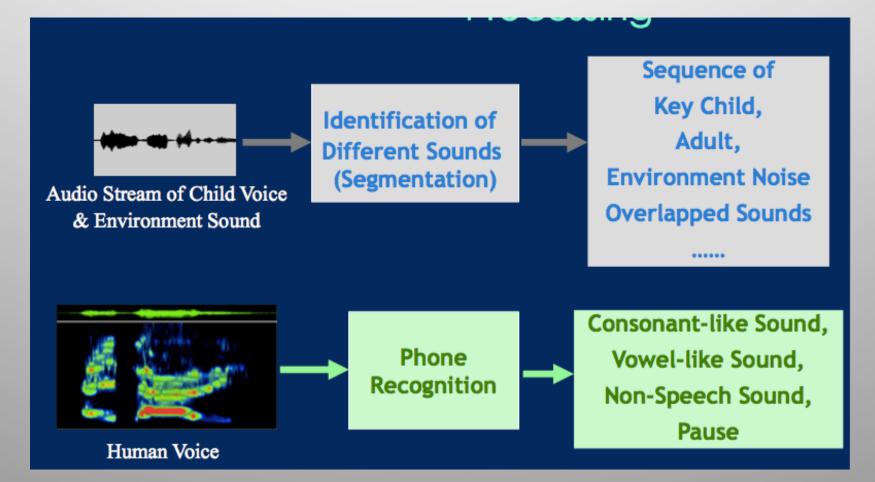


What is LENA?

LENA: Language <u>EN</u>vironment <u>A</u>nalysis



LENA processing



Use of LENA

- LENA has an autism screen for hearing children now validated
- Audio recordings of both child and adult offer a lot of future potential towards diagnosis of autism in deaf children
- Acoustic analysis by collaborating experts is needed but it can be done remotely
- LENA tends to confirm the subjective opinion
- Over referral and over diagnosis rates but that is better way round



"Red Flags" for a possible ASD in children who are Deaf/HH

Atypical preverbal communication

- poor eye contact, lack of pointing, poor orientation for communication, poor joint attention
- delays in language acquisition beyond what one could expect based on hearing loss/etiology/intervention history

Atypical language features

 echolalia, palm rotation errors, persistent gesture use despite instruction in formal sign and use of formal sign by others in the child's environment (distinct from home signs)

Social difficulties

- failure to initiate/respond to peers when communication taken into consideration, failure to recognize Deaf cultural norms, etc
- Repetitive behaviors/restricted interests

Language features of ASD in ASL

Features similar to oral language but may present differently in visual language

- Palm reversals (Shield, 2014)
- Pronoun avoidance vs. pronoun reversal (Shield, 2014)
- Echolalia
- Persistent use of individual's own gestures rather than formally instructed/used sign vs. neologisms (e.g. "red" vs. "ketchup")
- Failure to use appropriate sign space
- Mixed results regarding use of facial aspects of sign language and impact of ASD (Denmark, 2011,2014)

Interventions for Dual Diagnosis

- Evidence of effectiveness of interventions is lacking (mostly case studies).
- It is reasonable to take interventions which have been successful for hearing children to modify/adapt for children who are deaf/HH

Signposting resources



Books

Sensory Strategies





When my worries get too big

Choosing Autism Interventions collection of tried and tested



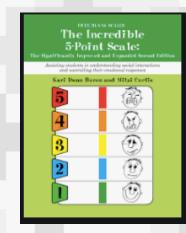


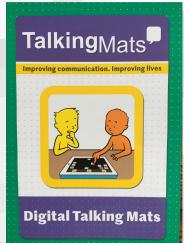
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+AET Autism Progression Framework



- NAS website continually adds new material with online access to their library
- www.autism.org.uk
- A variety of newsletters-



APPs Chatable by Therapybox

- Augmentative and Alternative Communication(AAC) App
- Recently shown on BBC Click programme
- Helpful for customised use
- Lots of visual content with words
- Language building
- Ability to take photos and add sound



APP for understanding about secondary school

Talking About... Secondary School

13:39







14 secondary school scenarios with 56 possible responses to discuss

70 colour pictures easily explain ideas

explain Take written notes, and record audio responses of your students

A Black Sheep Press resource to support transition to secondary school

Click to begin



* 100%

Clicker apps -to support learning



Your ideas

•please send me any and I will add



Thank you



in anticipation!

