





AuDiET – Towards tailored fitting interventions

Enrico Migliorini
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Who am I




- Enrico Migliorini, 29
- He/him
- From Florence, Italy
- Computer Engineer




- My half-sister Matilde, 20
- Profoundly deaf at birth
- Cochlear Implant recipient



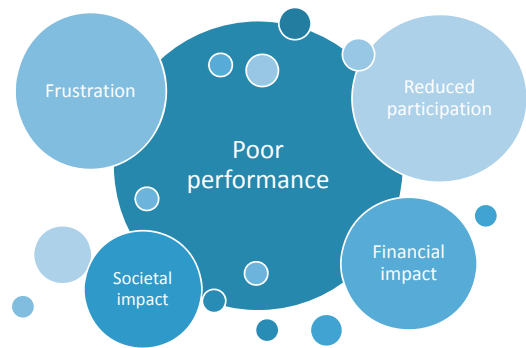

Our experience





- Late implantation
- Anti-CI speech therapist
- Reduced speech development
- Reduced socialization
- Behavioural issues
- Extreme stressor on our mother
- Currently living in a care facility, is very happy



Impact of poor performance

MOSAICS

Managing poor performance

Non-addressable

- Age
- Aetiology
- Duration of deafness
- Neural health
- ...

Addressable

- Fitting
- Training

Blamey et al., Factors Affecting Auditory Performance of Postlinguistically Deaf Adults Using Cochlear Implants: An Update with 2251 Patients. *Audiol Neurotol* 2013;18:36-47

Technical: confusion matrices

MOSAICS

a (1)	1.0	-	-	-
b (0)	-	-	-	-
c (1)	-	1.0	-	-
t (1)	-	-	-	1.0
	a	b	c	t
	(1)	(1)	(0)	(1)

CAT

BAT

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Stephen and Randy

MOSAICS

Stephen
70% recognition

p	0.7	0.3	-	-	pen
b	0.3	0.7	-	-	ball
t	-	-	0.7	0.3	tin
d	-	-	0.3	0.7	door
	p	b	t	d	

Randy
70% recognition

p	0.7	0.1	0.1	0.1	pen
b	0.1	0.7	0.1	0.1	ball
t	0.1	0.1	0.7	0.1	tin
d	0.1	0.1	0.1	0.7	door
	p	b	t	d	

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Post-implantation journey

MOSAICS

Stephen
Systematic

Differences enhancement

- Regular fittings
 - Loudness scaling
 - T- and C-levels adjustments
- Speech Therapy

Confused pairs

Randy
Random

Cues consistency

- Regular fittings
 - Loudness scaling
 - T- and C-levels adjustments
- Speech Therapy

Difficult phonemes

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Fitting Stephen and Randy

MOSAICS

Stephen
Systematic

Randy
Random

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We aim to trace a path for you

MOSAICS

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