Characterization of Speech and Language Phenotype in GLUT1DS

AIM

To analyze the oral-motor, speech and language phenotype in a pediatric population of patients with GLUT1DS

BACKGROUND

Movement disorders
GLUT1DS
Epilepsy
Cognitive disorders
ID
Efs deficits
Low AB

METHOD

Speech
- Receptive vocabulary
- Expressive vocabulary
- Receptive grammar
- Expressive grammar
- Verbal Fluency

Oromotor skills
- Phonetic inventory
- Phonological Planning
- DDK rate

Language

Speech and language evaluation of 8 children with GLUT1DS in treatment with KDT

RESULTS

Delay
Oromotor
- Early vocal behavior
- Language milestones
- Impaired oro-facial praxis, parallel movements and total score
- Impaired orofacial praxis, parallel movements and total score

- Impaired verbal fluency and receptive grammar

Speech
Language

CONCLUSIONS

- GLUT1DS is associated to different levels of speech and language impairment, which should guide diagnostic and therapeutic intervention.
- Larger population data are needed to identify more precisely a speech and language profile in GLUT1DS patients

• For more informations about neuropsychological assessment, please follow: «Beyond medical practice: recommendations for neuropsychological assessment in GLUT1DS»