BEYOND MEDICAL PRACTICE: RECOMMENDATIONS FOR NEUROPSYCHOLOGICAL ASSESSMENT IN GLUT1DS

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GLUT1DS is associated with mild-to-severe intellectual disability, with the degree of severity being proportional to the overall disease severity. Performance skills usually are more affected than verbal skills, with prominent deficiencies in visuos-spatial and visuo-motor abilities. Nevertheless, dysarthria, with varying degrees of speech impairment, is observed in all affected individuals. Quality of life in these patients might be negatively influenced by disease symptoms and KD maintenance. Good adaptive socialization skills usually represent a strong point.

Based on our clinical experience and on available evidence in literature, we present a set of recommendations for the neuropsychological evaluation to improve knowledge on educational, developmental and psychosocial profile of patients with GLUT1DS.

**Infantile age**
*Focus on:*
- Motor and language development (first disease signs and rehabilitation)
- Parental stress index

**School age**
*Focus on:*
- Academic skills and school resources
- Socialization

**Adolescence**
*Focus on:*
- Therapy compliance
- Emotion and behavior
- Diet knowledge and disease awareness

**Adulthood**
*Focus on:*
- Adaptive behavior
- Diet management and occupational

**Diagnosis**

**KD introduction**

**6 months follow-up**

**1 year follow-up**