META glut1™

A Simple Blood Test to Aid the Early Diagnosis of GLUT1 Deficiency Syndrome

MEDICAL WANDERING

>95%

of patients are currently **NOT** diagnosed

Mean age at diagnosis is **8 years old**

A **CE-marked** *in vitro* diagnostic medical device **used as an aid in the diagnosis** of GLUT1 Deficiency Syndrome (Glut1DS)

Glut1DS, or De Vivo disease, is a **neurometabolic** syndrome caused by a defect in the glucose transporter **GLUT1**, resulting in a **cerebral energy deficit**

Diagnosis should be **sooner rather than later** to ensure proper **brain development**

- **Neurodevelopmental disorders**
  (intellectual disability or specific mixed neurodevelopmental disorder)
- **Epilepsy**
  (childhood onset, drug resistance, seizures associated with fasting...)
- **Movemental disorders**
  (paroxysmal or permanent)
- **Abnormal eye movements**
- **DEE**
  (developmental and epileptic encephalopathy)

Think Glut1DS...

Glut1DS is characterized by a **wide phenotypic spectrum** with one or more symtoms, occuring at all ages

Treatable with a **ketogenic diest** (KD)

METAglut1™

Direct quantification of GLUT1 on erythrocytes

- **A simple blood draw**
- **No need for fasting**
- **Outpatient or inpatient settings**
- **Quick turnaround time (24-72hrs.)**
- **Great performance***

Equivalent to glycorrhachia

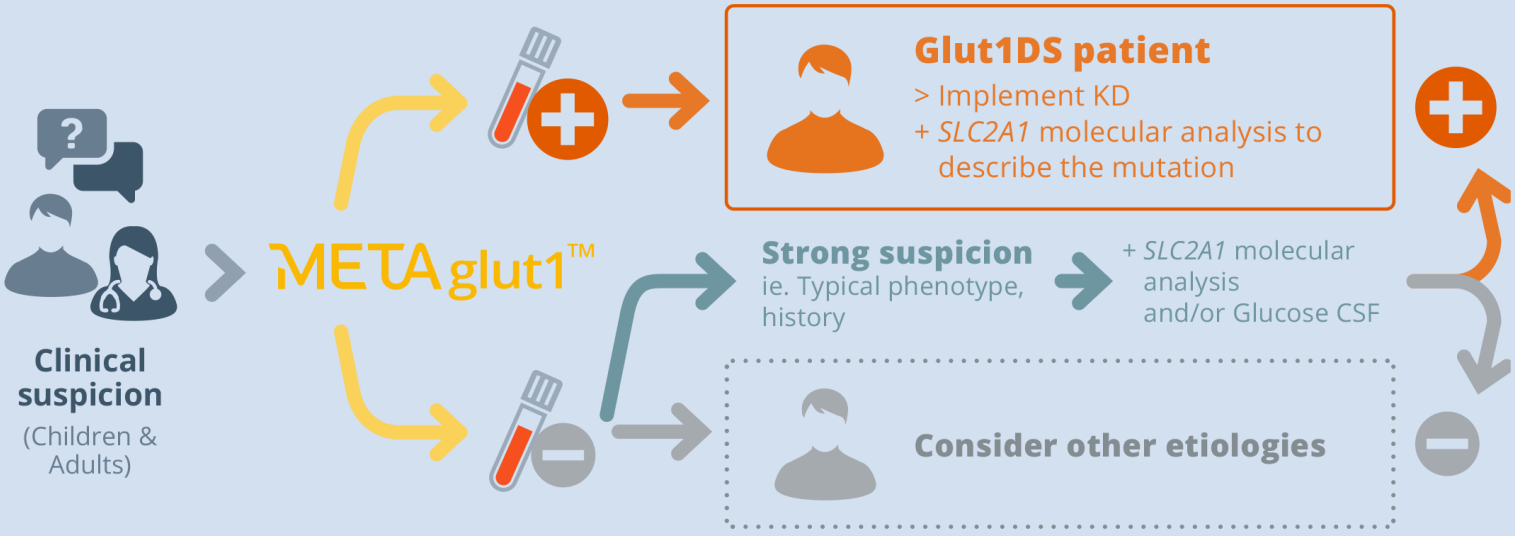
Sensitivity ≈ **80%**
PPV = **90%**
Specificity > **99%**
NPV = **97%**

* Mochel F. et al. Prospective Multicenter Validation of a Simple Blood Test for the Diagnosis of Glut1 Deficiency Syndrome. Neurology. 2023

Expedites proper patient care

REIMBURSED IN FRANCE

METAglut1™ used as a first line simple test to search for Glut1DS patients



METAglut1™ by METAFORA

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CE IVD