

# Congenital disorders of glycosylation (CDG) scheme

## Web submission report

### Laboratoire N: 412 (CDG Nijmegen)

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Date of sample received : 2023-02-13

Date of reporting results : 26 September 2023 - 14:28:27

**The results below have been sent and saved in the CSCQ database at the date and time indicated above.**

### 23-08-DGN / CDG-PP-2023-D

Lab 412

#### Clinical picture

Patient sex : F                      Age at diagnosis : 15 Year(s)                      Age present : 15 Year(s)

Axial hypotonia, mild-moderate intellectual disability, abnormalities in coagulation

#### 1. ANALYTICAL RESULTS

##### Sialotransferrin (CDG)

CDG-PP-2023-D Lab 412

Analyte	Method	Isoform	Result (unit)	Lower ref.	Upper ref.
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Comments      User Initials : USR1

Not applicable

#### 2. INTERPRETATION

User Initials : USR1

Lab 412

Interpretation of the profiles (normal or abnormal, profile type: suggestive for CDG-I, CDG-II or other)

CDG type1 abnormalities on transferrin (Trf), alpha-1 Anti-trypsin (AAT) and haptoglobin. Suggestive for CDG-I.

#### 3. RECOMMENDATIONS

User Initials : USR1

Lab 412

CDG-I profile(s). Secondary causes of CDG should be excluded (hereditary fructose intolerance, galactosemia, liver disease, chronic alcohol abuse). Eventually, ask for EDTA blood sample to test PMM2 (PMM2-CDG) and MPI (MPI-CDG) enzymatic activities. Ask for skin fibroblasts to possibly test other enzymatic activities. EDTA blood sample and/or fibroblasts will also be used for molecular sequencing (CDG gene panels, WES...). Ask for an informed consent for genetic studies.

#### 4. FILES UPLOADED

User Initials : ABR

Lab 412

File number	File name	Comment
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1	EEQ ERNDIM 2023-D-E-F.pdf	
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### 23-08-DGN / CDG-PP-2023-E

Lab 412

#### Clinical picture

Patient sex : F                      Age at diagnosis : 3 Year(s)                      Age present : 3 Year(s)

Seizure, axial hypotonia

#### 1. ANALYTICAL RESULTS

##### Sialotransferrin (CDG)

CDG-PP-2023-E Lab 412

Analyte	Method	Isoform	Result (unit)	Lower ref.	Upper ref.
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Comments      User Initials : USR1

Not performed

**2. INTERPRETATION**

User Initials : USR1

Lab 412

Interpretation of the profiles (normal or abnormal, profile type: suggestive for CDG-I, CDG-II or other)

Normal profile(s). Not suggestive for CDG.

**3. RECOMMENDATIONS**

User Initials : USR1

Lab 412

Normal profile. Do not propose anything in the field of CDG.

**4. FILES UPLOADED**

User Initials : ABR

Lab 412

File number	File name	Comment
1	EEQ ERNDIM 2023-D-E-F.pdf	

**23-08-DGN / CDG-PP-2023-F**

Lab 412

**Clinical picture**

Patient sex : M

Age at diagnosis : 4 Year(s)

Age present : 4 Year(s)

Global developmental delay, autism spectrum disorder, bruising susceptibility

**1. ANALYTICAL RESULTS****Sialotransferrin (CDG)**

CDG-PP-2023-F Lab 412

Analyte	Method	Isoform	Result (unit)	Lower ref.	Upper ref.
Comments User Initials : USR1					
Not performed					

**2. INTERPRETATION**

User Initials : USR1

Lab 412

Interpretation of the profiles (normal or abnormal, profile type: suggestive for CDG-I, CDG-II or other)

Normal profile(s). Possible transferrin protein variant? According to AAT and haptoglobin 2-DE patterns, not suggestive for CDG.

**3. RECOMMENDATIONS**

User Initials : USR1

Lab 412

Normal AAT and haptoglobin 2-DE patterns. At our side, discrete doubt on a possible transferrin variant. Although clinically not evocative, a MAN1B1-CDG could not formally be excluded. Indeed, MAN1B1-CDG classically present with an isolated increase of the 3-sialo transferrin fraction suggestive for a variant. Considering the very low volume of available sample (<25 µL), we are not able to perform neuraminidase treatment to exclude a Trf variant.

**4. FILES UPLOADED**

User Initials : ABR

Lab 412

File number	File name	Comment
1	EEQ ERNDIM 2023-D-E-F.pdf	