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## COMPLEXITY OF THE DIAGNOSIS OF CONGENITAL DISORDERS OF GLYCOSYLATION



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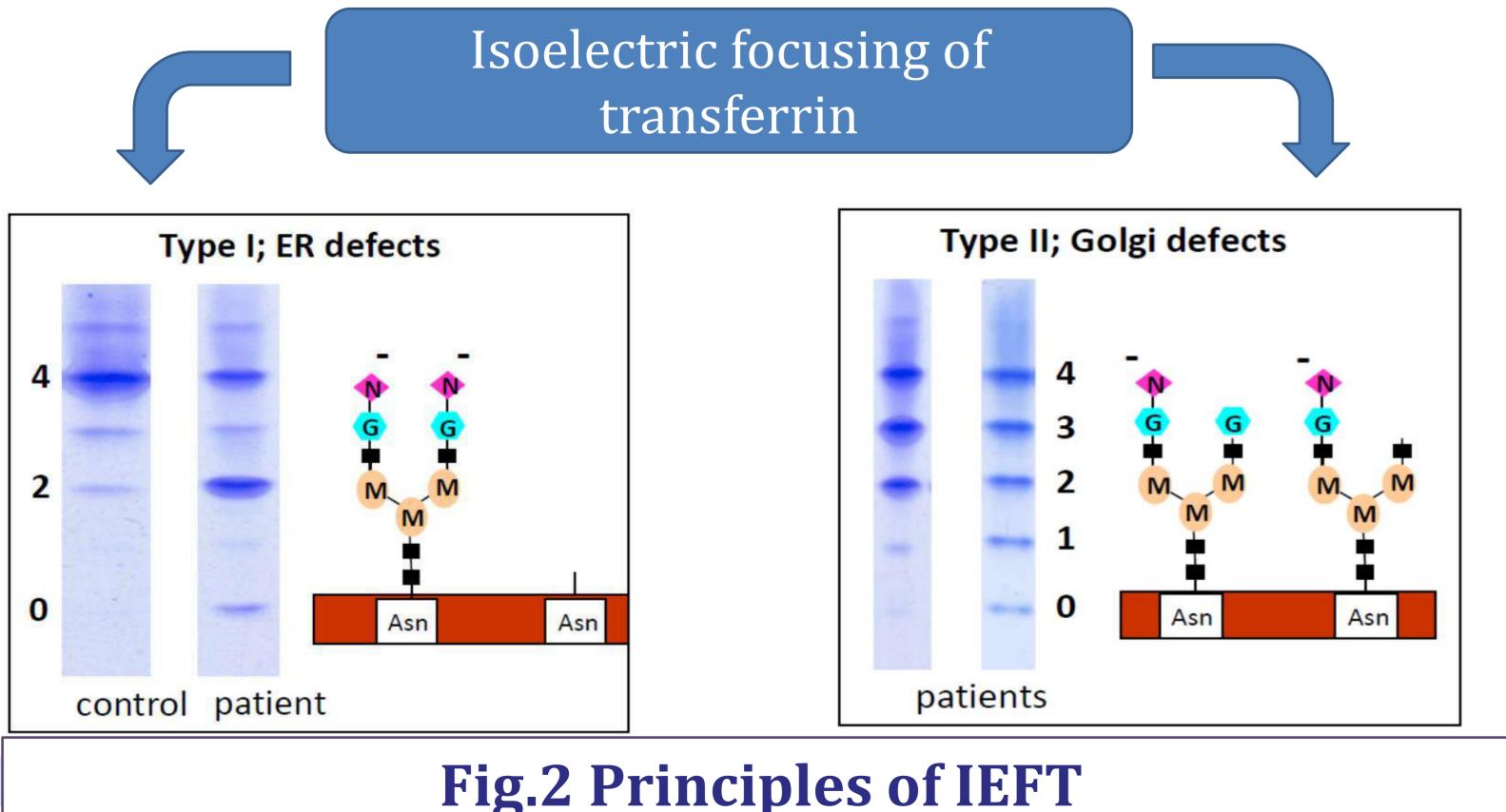
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Introduction: Congenital Glycosylation Disorders (CDG) is a group of pathologies caused by the disorder of the glycosylation glycoproteins process of and glycoconjugates with various disabling multisystem impairment mimicking other pathologies.

Keywords: CDG, IEFT, rare disease

Purpose: The implementation of the diagnostic algorithm and identify cases of CDG in the cohort of Moldovan patients.

Material and methods: serum of 40 patients suspected for CDG were analyzed by isoelectric focusing of transferrin (IEFT) and urine by NMR spectroscopy.



Results: The clinical manifestations of the patients were: hypotonia, hepatomegaly, mild hypoglycemia, increased transaminases, abnormal brain MRI, dysmorphic features, failure to thrive and neurological

manifestations. 37 serum – normal IEFT profiles, 3-abnormal IEFT profile:

- Fructosemia
- Galactosemia
- Possible CDG needed additional investigations.

Fig. 1. IEF of transferrin: 1-3 abnormal profile suggestive for CDG I;

Conclusions: The variety of symptoms in CDG lead to missdiagnosis other pathologies. In the process of diagnosing CDG it is mandatory to exclude secondary abnormalities of glycosylation.