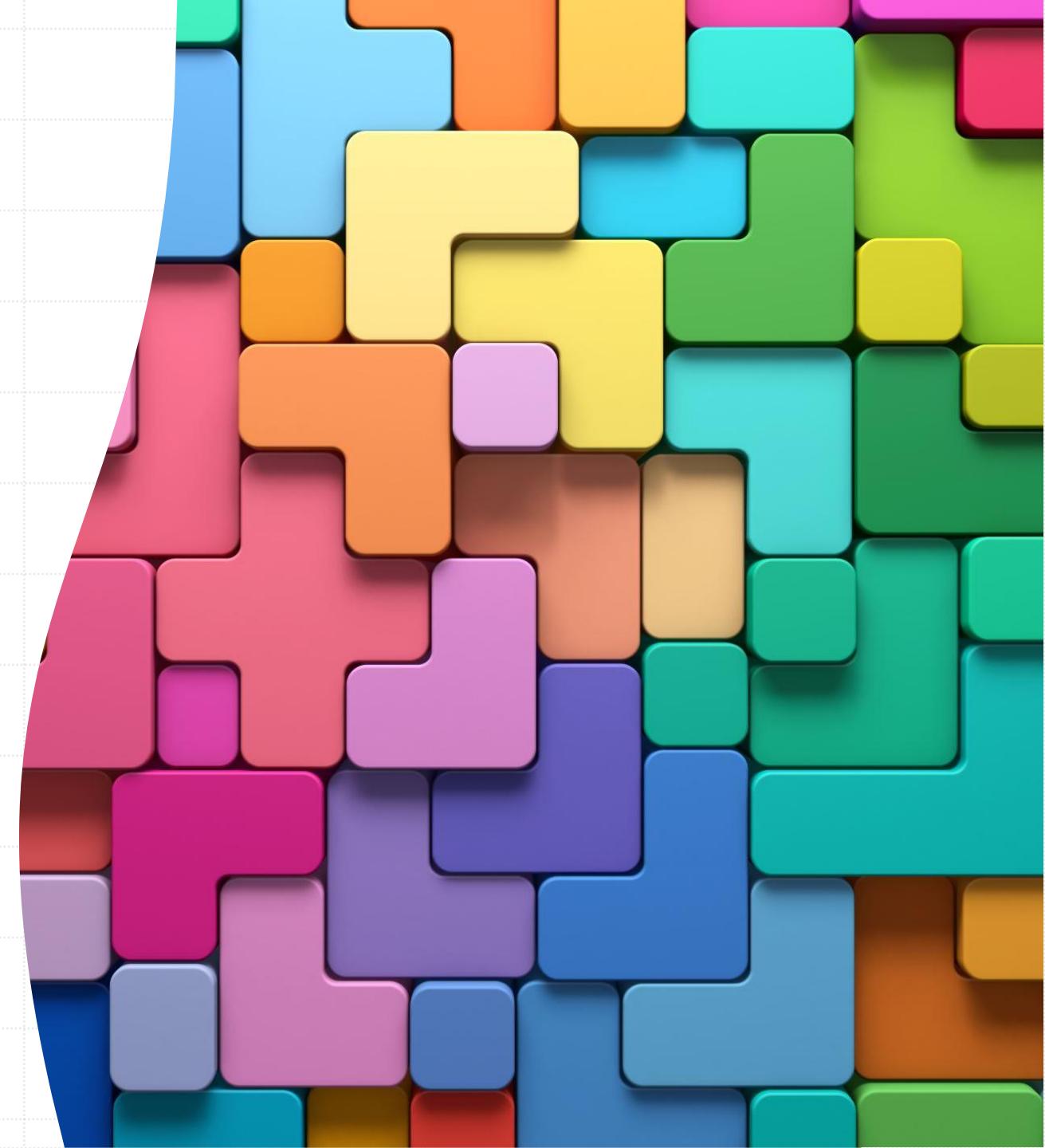


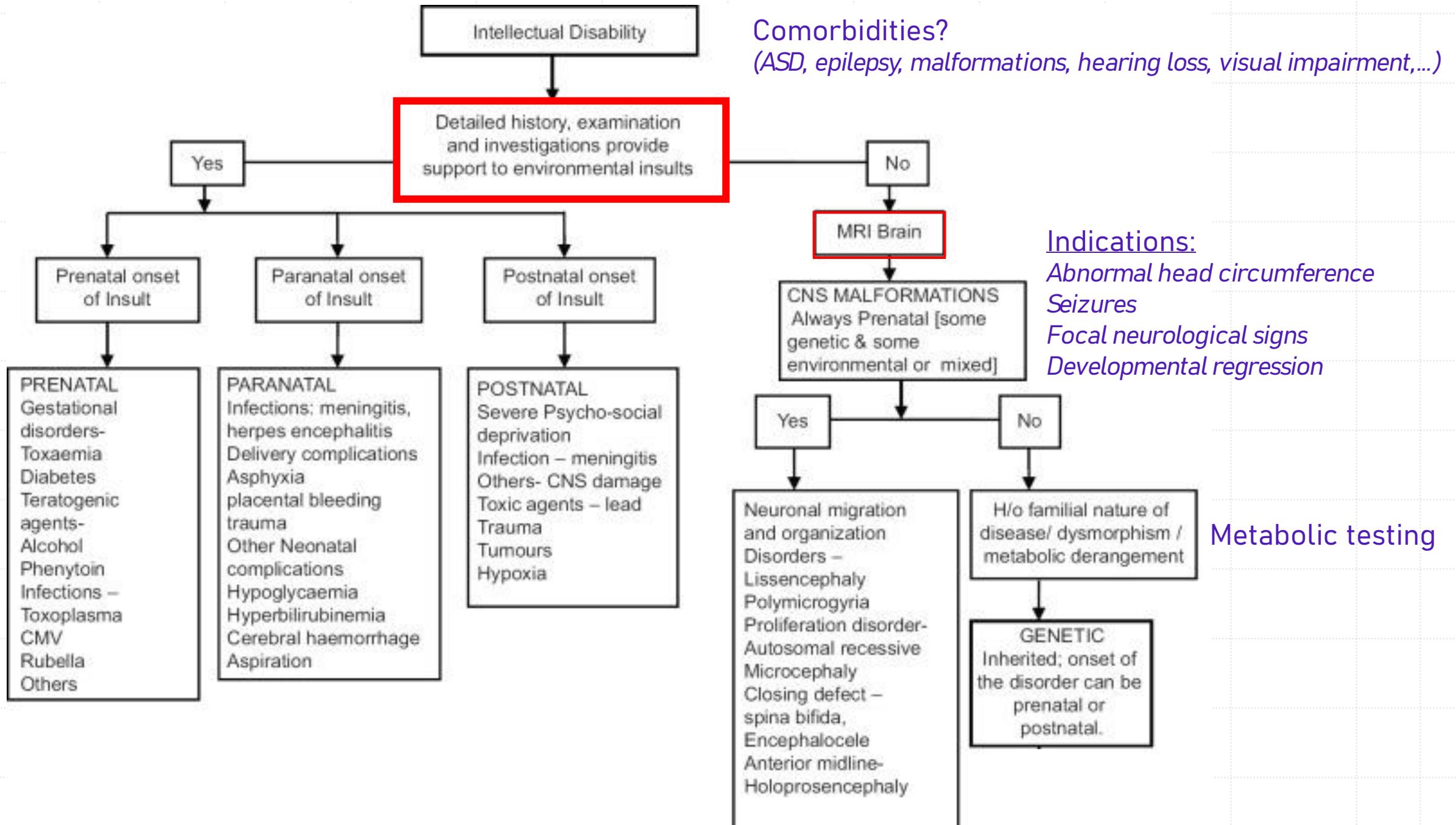
ID assessment and management

Maystadt I.

MANAMA

11.03.2024





1st Tier: Non-Targeted screening to identify 54 (60%) treatable IEMs

Blood:

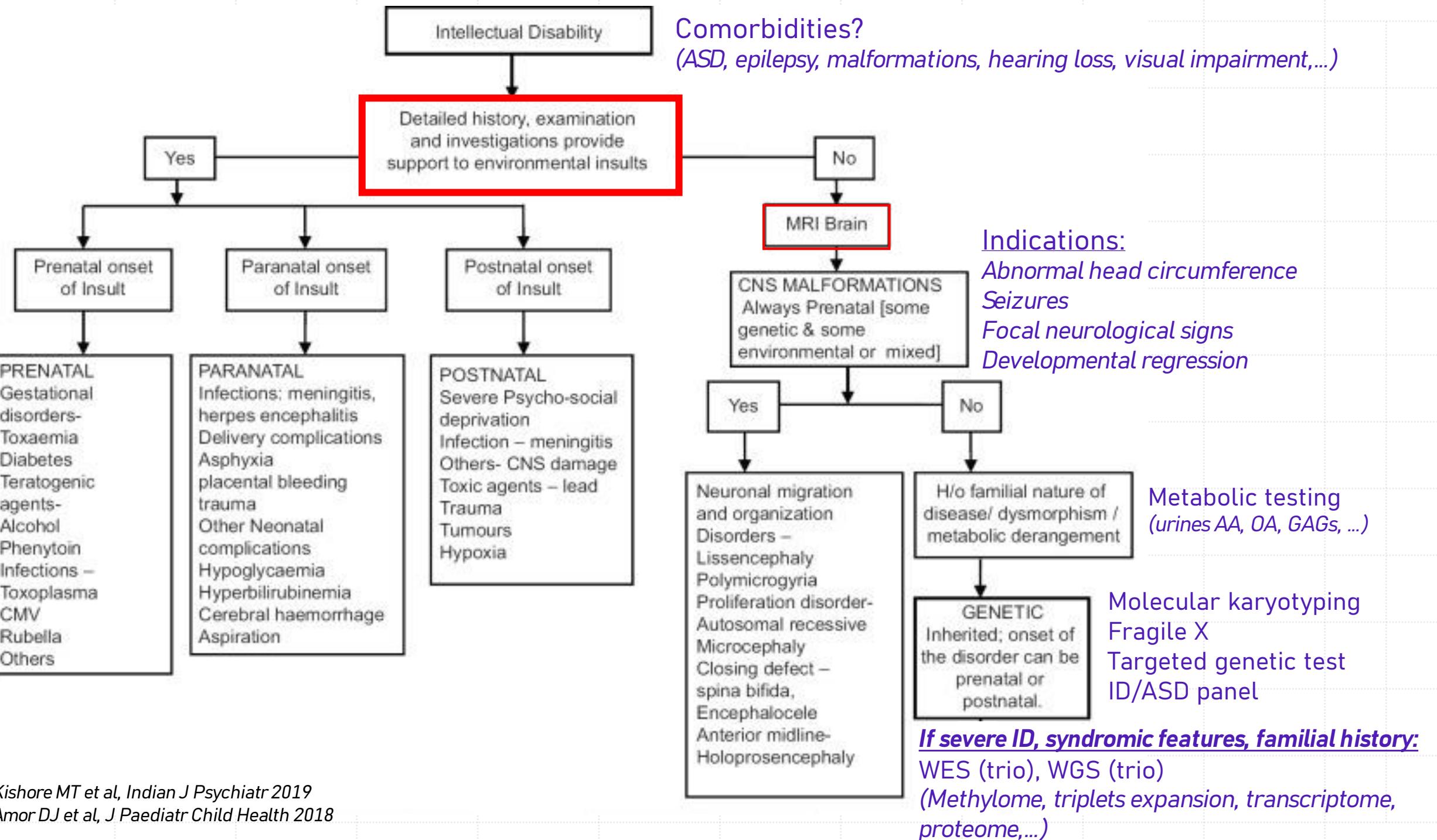
- ▶ ammonia, lactate
- ▶ plasma amino acids
- ▶ total homocysteine
- ▶ acylcarnitine profile
- ▶ copper, ceruloplasmin

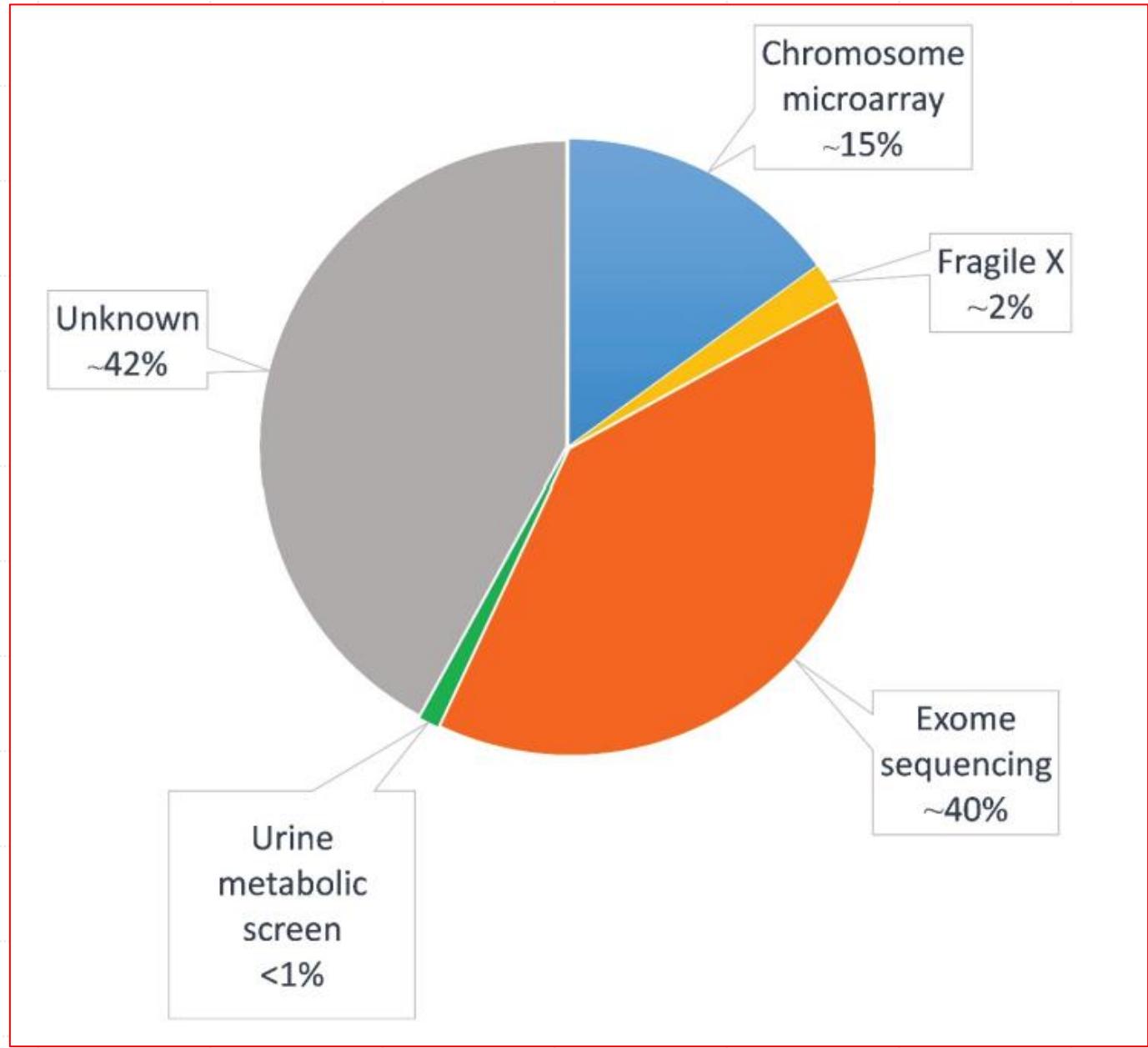
Urine:

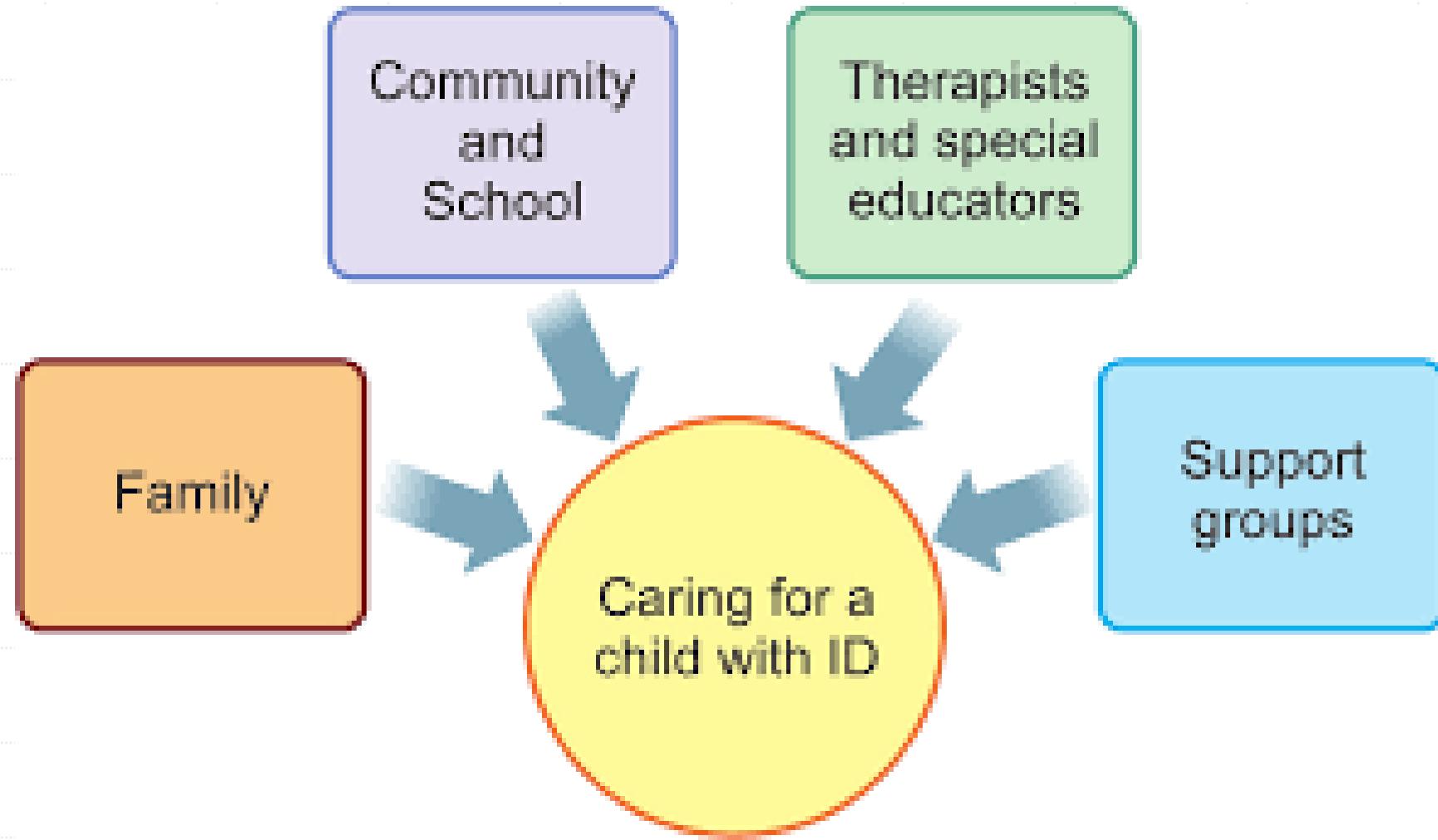
- ▶ organic acids
- ▶ purines & pyrimidines
- ▶ creatine metabolites
- ▶ oligosaccharides
- ▶ glycosaminoglycans

2nd Tier: Targeted testing to identify 35 (40%) treatable IEMs requiring 'specific testing'

- ▶ according to patient's symptomatology patient (Table 4) & clinician's expertise
- ▶ utilization of textbooks & digital resources
(WebApp: www.treatable-ID.org)
- ▶ consider the following biochemical / molecular analyses:
 - ▶ whole blood manganese
 - ▶ plasma cholestanol
 - ▶ plasma 7-dehydroxy-cholesterol:cholesterol ratio
 - ▶ plasma pipecolic acid & urine AASA
 - ▶ plasma very long chain fatty acids
 - ▶ plasma vitamin B12 & folate
 - ▶ serum & CSF lactate:pyruvate ratio
 - ▶ enzyme activities (leucocytes): arylsulphatase A, biotinidase, glucocerebrosidase, fatty aldehyde dehydrogenase
 - ▶ urine deoxypyridonoline
 - ▶ CSF amino acids
 - ▶ CSF neurotransmitters
 - ▶ CSF: plasma glucose ratio
 - ▶ CoQ measurement fibroblasts
 - ▶ molecular: CA5A, NPC1, NPC2, SC4MOL, SLC18A2, SLC19A3, SLC30A10, SLC52A2, SLC52A3, PDHA1, DLAT, PDHX, SPR, TH









Special school:

- type 1 : déficience intellectuelle légère - lichte verstandelijke handicap
- type 2 : déficience intellectuelle modérée ou sévère
matige of ernstige verstandelijke handicap
- type 3 : troubles du comportement et/ou de la personnalité
gedragsproblemen en/of emotionele problemen
- type 4 : déficiences physiques - lichamelijke handicaps
- type 5 : maladies ou élèves convalescents - zieke of herstellende leerlingen
- type 6 : déficiences visuelles - visuele handicaps
- type 7 : déficiences auditives - auditieve handicaps
- type 8 : troubles de l'apprentissage - leerstoornissen
- type 9 : autismespectrumstoornis, maar zonder verstandelijke beperking
(enkel in de Vlaamse Gemeenschap)

<https://www.belgium.be/fr/formation/enseignement/specialise>

https://www.belgium.be/nl/Leren/onderwijs/buitengewoon_onderwijs