

WHEN TO CONSIDER GALACTOSAEMIA



MOST OFTEN PRESENTS IN THE NEONATAL PERIOD (in breastfed newborns or those fed formula containing galactose)



Hepatic involvement ★
(progressing to severe acute liver failure)

Feeding difficulties
Insufficient weight gain
Growth retardation
Vomiting
Jaundice
Hepatomegaly
Lethargy



+/- Neonatal E. coli infection
(more common)



+/- Ophthalmic involvement
Cataract



+/- Renal involvement
Proximal tubular involvement

Additional tests

Laboratory tests:
Possible hypoglycaemia

✎ Prothrombin time (PT), coagulation factors and albumin

✎ Total and conjugated bilirubin transaminases

Laboratory tests:
Signs of tubulopathy



OTHER LATER MANIFESTATIONS/COMPLICATIONS



Gonadal insufficiency due to premature ovarian failure¹

Delayed puberty
Subfertility



Skeletal involvement
Decreased bone density



Neurological involvement²

Global neurodevelopmental disorder
Language delay
Attention deficit/hyperactivity disorder (ADHD)
Autism spectrum disorder
Anxiety
Depression



Urgent referral to a hepatologist and specialist centre for Inherited Metabolic Disorders
Reference and Expert Centre for Rare Diseases:
<https://www.filiere-g2m.fr/annuaire/>

Simultaneously begin emergency management:
Stop breastfeeding (or galactose-containing formula) as soon as galactosaemia is suspected, without waiting for the results of the spot test

Specialist management coordinated by an Expert Centre

Genetic counselling, family screening in a specialist centre

Further information:
emergency protocols by symptom and/or disease:
<https://filiere-g2m.fr/urgences>

★ Specialist medical opinion and reference laboratory



Galactosaemia due to galactose-1-phosphate uridylyltransferase (GALT) deficiency ?

Specialist assessment in collaboration with a Centre for Rare Diseases in parallel with investigation of other possible differential diagnoses³ ★

Spot test⁴ (screening for congenital galactosaemia using blood on filter paper): Decreased GALT activity (+ increased intra-erythrocyte galactose-1-phosphate)

Follow-up confirmatory genetic testing by a specialist centre

¹Rare form of presentation. No gonadal insufficiency in males.

²Common but not systematic; may be limited to psychological aspects.

³Differential diagnoses for liver failure in neonates/infants: neonatal haemochromatosis, infectious, metabolic, toxic, immune-mediated, neoplastic or vascular causes

⁴To be performed immediately if no obvious cause is found, in parallel with other investigations.

Do not wait for test results before discontinuing breastfeeding or galactose-containing formula if galactosaemia is suspected.