

**Changes to automated comments and reflex rules for Nutristasis**

<b>Test</b>	<b>Comment</b>
Serum B12	<p><b>Samples with serum B12 &lt;150 ng/L will be referred for IF and GPC antibodies assay. The following comment will apply</b></p> <p><i>Vitamin B12 deficiency. Determine cause and give parenteral vitamin B12 replacement. Sample sent for IF and GPC antibodies assay.</i></p> <p><b>Indeterminate B12 status (age dependent) will trigger the following comment</b></p> <p><i>Indeterminate B12 status. For vitamin B12 values between &lt;this will be adjusted for age&gt; ng/l in this age group we recommend confirmatory analysis with serum methylmalonic acid (MMA), a functional marker of vitamin B12 deficiency, providing that renal function is normal. If you would like to proceed using the same specimen please contact us asap - 0204 513 7300. If MMA is raised, B12 deficiency can be confirmed. Determine cause and give oral or parenteral vitamin B12 replacement.</i></p> <p><b>Replete comment</b></p> <p><i>Vitamin B12 replete.</i></p> <p><b>Elevated B12 comment</b></p> <p><i>Elevated B12 concentration.</i></p> <p><b>Comment for all females between 15-50 yrs. of age</b> Please note, in pregnancy, trimester specific serum B12 reference ranges apply: first trimester 168-574 ng/L, second trimester 154-516 ng/L, third trimester 112-465 ng/L</p>
Vit D (25-OH Vitamin D)	<p><b>Samples with results &gt;150 nmol/L will be sent for confirmatory analysis using LC-MS/MS technology (results for these samples will be available within 10 days).The following comment will apply.</b></p> <p><i>Result confirmed by LC-MS/MS.</i></p>
Ferritin	<p><b>Comment for results within the reference range</b> <i>Serum ferritin within the reference interval cannot exclude iron deficiency in the context of raised inflammatory markers or a history of acute or chronic disease; if applicable further investigation may be warranted. In individuals with infection or inflammation, a ferritin concentration below 70 µg/L may indicate iron deficiency.</i></p> <p><b>Comments for results above the reference range but =&lt;1000 ug/L</b> <i>Elevated ferritin concentration. Consider iron overload and other causes of elevated ferritin e.g. inflammation or infection. If</i></p>

	<p><i>asymptomatic, consider repeat serum ferritin and transferrin saturation in 3-6 months.</i></p> <p><b>Comments for results above the reference range but =&lt;10000 ug/L</b>  <i>Grossly elevated ferritin concentration indicative of iron overload or other disease. Further clinical and laboratory evaluation is indicated to establish the diagnosis and underlying cause of the ferritin concentration.</i></p> <p><b>Comments for results above the reference range but &gt;10000 ug/L</b>  <i>Grossly elevated ferritin concentration, can be associated with renal or liver disease, infection or malignancies. Consider also rare conditions such as Still disease or haemophagocytic lymphohistiocytosis.</i></p> <p><b>An additional comment for females 15-50 yrs old and ferritin result between 0-150 ug/L (Female)</b>  <i>Ferritin concentration below 30 ug/L in pregnancy should prompt treatment in anaemic (Hb &lt;110g/L in first trimester, &lt;105g/L in second and third trimesters) pregnant women, non-anaemic pregnant women identified to be at increased risk of iron deficiency and in women with known haemoglobinopathy.</i></p>
Folate	<p><b>Comment for low results</b>  Low serum folate concentration. This requires a cause investigation and treatment with folate supplements.</p> <p><b>Comment to results with serum folate between 3.1 - 5.9 ug/L</b>  <i>Folate close to the lower limit of the reference range (3.1 to 5.9 µg/L) may require folate supplementation. Suggests a cause investigation and additional analyses e.g. serum/plasma homocysteine if renal function is normal or red cell folate.</i></p> <p><b>Comment to results with serum folate between 6.0 – 20.0 ug/L</b>  <i>Folate replete.</i></p> <p><b>Comment to results with serum folate &gt;20 ug/L</b>  <i>High folate status.</i></p>