

## Biochemistry minimum retest intervals

Minimum retest intervals (MRIs) based on guidance from the Royal College of Pathologists.

Repeat requests received in the laboratory within the stated timelines in the below table will be rejected (exemptions apply).

If a repeat test is required within the stated MRI, this should be discussed with the Duty Biochemist.

| Test / Profile                      | MRI (days) | Conditions / additional information   |
|-------------------------------------|------------|---|
| Alpha-1-antitrypsin (AAT)           | 365        | Not applied if age <18 years  |
| Angiotensin converting enzyme (ACE) | 27         |   |
| AFP                                 | 7          |   |
| Beta-2 microglobulin                | 27         |   |
| CA125                               | 7          |   |
| CA153                               | 7          |   |
| CA199                               | 7          |   |
| Caeruloplasmin                      | 365        | Not applied if age <18 years  |
| Calprotectin (faecal)               | 180        | Not applied if: <ul style="list-style-type: none"> <li>• Age &lt;18 years</li> <li>• Gastroenterology speciality clinician/location</li> <li>• Outpatient location</li> <li>• If previous result in the equivocal range (100-250 µg/g)</li> </ul> |
| CEA (serum)                         | 7          |   |
| Cholesterol                         | 27         | See Lipid profile   |
| Cholesterol:HDL-C ratio             | 27         | See Lipid profile   |
| Copper                              | 13         |   |
| Creatinine clearance                | 7          |   |
| DHEAS                               | 27         |   |
| Elastase (faecal)                   | 90         |   |
| ELF                                 | 1095       |   |
| Erythropoietin                      | 27         | CREJ <b>not</b> added (autorejected)  |
| Factor V Leiden                     | 9999       | Test should not be repeated   |
| Ferritin (general)                  | 27         | Not applied if: <ul style="list-style-type: none"> <li>• Age &lt;18 years</li> <li>• Renal speciality clinician/location</li> <li>• Known haemochromatosis</li> <li>• Previous high ferritin</li> </ul>   |

| Test / Profile                     | MRI (days) | Conditions / additional information  |
|------------------------------------|------------|--|
| Ferritin (renal)                   | 20         | Not applied if: <ul style="list-style-type: none"> <li>• Non-Renal speciality clinician/location</li> <li>• Known haemochromatosis</li> </ul>  |
| FIT (Leighton/Macclesfield)        | 180        | Applied to requests from Cheshire region only – Leighton and Macclesfield laboratories   |
| Folate (all sites)                 | 90         |  |
| Follicle Stimulating Hormone (FSH) | 7          |  |
| Free T3                            | 27         | Not applied if age <17 years   |
| Fructosamine                       | 28         |  |
| Free T4                            | 27         | Not applied if: <ul style="list-style-type: none"> <li>• Age &lt;17 years</li> <li>• Oncology speciality clinician/location</li> </ul>   |
| Growth hormone                     | 27         | Not applied if age <17 years   |
| Haptoglobin                        | 27         |  |
| HbA1c                              | 55         | Not applied if: <ul style="list-style-type: none"> <li>• Age &lt;18 years</li> <li>• Previous results &gt;47 mmol/mol and <b>not</b> known diabetes patient</li> <li>• Antenatal location</li> </ul> |
| HDL                                | 27         | See Lipid profile  |
| HLA-B27                            | 9999       | Test should not be repeated  |
| HFE genotype                       | 9999       | Test should not be repeated  |
| IGF-1                              | 90         | Not applied if age <17 years   |
| Immunoglobulins                    | 27         |  |
| Iron                               | 27         | See TSAT   |
| LDL cholesterol                    | 27         | See Lipid profile  |
| LH                                 | 7          |  |
| Lipid profile                      | 27         | Not applied if: <ul style="list-style-type: none"> <li>• Part of fasting lipid profile</li> <li>• Age &lt;18 years</li> <li>• Critical care location</li> </ul>                                      |
| Magnesium (spot urine)             | 7          |  |
| NT-proBNP                          | 180        |  |
| Non-HDL cholesterol                | 27         | See Lipid profile  |
| Oestradiol                         | 13         |  |
| PIIINP                             | 55         |  |
| PTH                                | 90         | Not applied if: <ul style="list-style-type: none"> <li>• Age &lt;17 years</li> <li>• Renal speciality clinician/location</li> <li>• ENT speciality clinician/location</li> </ul>                     |
| Phosphate (spot urine)             | 7          |  |
| PLGF                               | 7          |  |

| Test / Profile                                | MRI (days) | Conditions / additional information   |
|---|------------|---|
| Progesterone                                  | 7          |   |
| Prolactin                                     | 20         |   |
| Protein electrophoresis (serum) (general)     | 90         | Not applied if haematology speciality clinician   |
| Protein electrophoresis (serum) (haematology) | 20         | Not applied if non-haematology speciality clinician   |
| Protein electrophoresis (urine) (general)     | 90         | Includes BJP and urine immunofixation<br>Not applied if haematology speciality clinician  |
| Protein electrophoresis (urine) (haematology) | 20         | Includes BJP and urine immunofixation<br>Not applied if non-haematology speciality clinician  |
| Prothrombin genotype                          | 9999       | Test should not be repeated   |
| PSA   | 7          |   |
| Serum free light chains                       | 20         |   |
| SHBG  | 27         |   |
| Testosterone                                  | 27         | Not applied if previous result abnormal   |
| Triglycerides                                 | 27         | See Lipid profile   |
| Thyroid stimulating hormone (TSH)             | 27         | Not applied if: <ul style="list-style-type: none"> <li>• Age &lt;17 years</li> <li>• Oncology speciality clinician/location</li> </ul>                    |
| Transferrin                                   | 27         | See TSAT  |
| Transferrin saturation (TSAT)                 | 27         | Not applied if: <ul style="list-style-type: none"> <li>• Previous result high</li> <li>• Age &lt;18 years</li> <li>• Known haemochromatosis</li> </ul>    |
| Valproate                                     | 7          |   |
| Vitamin B12                                   | 90         | Not applied if <ul style="list-style-type: none"> <li>• Previous result &lt;247 ng/L (UHNM)</li> <li>• Previous result &lt;180 ng/L (Cheshire)</li> </ul> |
| Vitamin D                                     | 180        | Not applied if Rheumatology speciality clinician/location   |
| Vitamin A                                     | 28         |   |
| Vitamin E                                     | 28         |   |
| Zinc  | 13         |   |

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