

PF-PTD-191

Iron



Synonyms

Clinical Indication

Fe

The main use for this test is in the investigation of iron overload such as haemochromatosis, when the transferrin saturation should also be assessed. Iron levels are also useful in management of suspected iron poisoning or overdose.

Measurement of serum iron is of little relevance in the investigation of iron deficiency; levels fall during acute infection (e.g. a cold); in patients taking oral iron (or multivitamins) levels reflect recent intake and are not representative of the true physiological state.

Part of Profile / See Also

Request Form

Availability / Frequency of

Analysis

Turnaround Time

Patient Preparation

Sample Requirements

Specimen Type

7

Volume

Acceptable Containers

Transferrin saturation

Combined Pathology manual Blood form or ICE request

On request, if specific criteria are met.

Same day

None required

Serum and plasma

1 ml



Yellow top (SST) tube



Green top (lithium-heparin) tube



paediatric orange top (lithium-heparin)



paediatric green top (lithium-heparin)

Plain serum samples may also be used.

Reference Range & Units

10 - 30 μmol/L

Reference: Pathology Harmony Group, Clinical Biochemistry Outcomes, January 2011 (www. pathologyharmony.co.uk)

Interferences

Interpretation & Clinical

Decision Value (if applicable)

Critical phoning limit >55 μ mol/L (except in known cases of haemochromatosis)



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References Sherwood RA, Pippard MJ, Peters TJ. Iron homeostasis and the assessment of

iron status. Ann Clin Biochem 1998; 35: 693-708.

Beckman kit insert.

Test code IRON. TRAN (used in calculation of transferrin % saturation)

Lab Handling Analysed from primary tube and stored at 4°C.

Serum and plasma stable for 3 weeks at 2-8 $^{\circ}\text{C}.$

Serum and plasma stable for 7 days at 15-25°C.