

PF-PTD-209

Methaemoglobin

Synonyms	MetHb
Clinical Indication	There are two types of methaemoglobinaemia: congenital and acquired.
	Congenital methaemoglobinaemia is characterized by diminished enzymatic reduction of methaemoglobin (i.e., haemoglobin with its iron in the ferric state) back to functional haemoglobin (i.e., haemoglobin with its iron in the ferrous state). Affected patients appear cyanotic but are generally asymptomatic.
	Acquired methaemoglobinaemia typically results from ingestion of specific drugs or agents that cause increase in the production of methaemoglobin. It can be a fatal disease. Dapsone (anti-bacterial agent) is a common precipitating agent and accounts for most cases.
Part of Profile / See Also	
Request Form	Combined Pathology manual Blood form or ICE request
Availability / Frequency of	On request
Analysis	
Turnaround Time	Same day
Patient Preparation	
Sample Requirements	
Spacimon Type	Whole blood
Specimen Type	Whole blood
Volume	1 ml
Volume Container	1 ml Lithium Heparin tube
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Specimen TypeVolumeContainerContainerReference Range & UnitsInterferencesInterpretation & ClinicalDecision Value (if applicable)References	I ml Lithium Heparin tube Paediatric Green top (Lithium Heparin) tube Or Paediatric Orange top (Lithium Heparin) tube 0.4 - 1.5 % Patients with acute acquired methaemoglobinaemia may be asymptomatic at lower levels of methaemoglobin (i.e., <20 percent). Symptoms, when present, include headache, fatigue, dyspnea, and lethargy. At methaemoglobin levels >40 percent, respiratory depression, altered consciousness, shock, seizures, and death may occur.



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Test code

Lab Handling

MHB

Store whole blood at 4°C in separating fridge prior to analysis on a blood gas analyser. Analyse as soon as possible.