

Patient Name : Demo Patient Name
Age / Sex : 60 Y / F
Referred By : DEMO HOSPITAL
Centre : HOD Head Office

Lab No : Demo Visit No
Registration On : 21-Jan-25 08:16
Patient ID : UHID.DEMO.001

Lithium			Serum Sample	
Accession No: DEMO_BARCODE		Collected On: 21-Jan-25 08:45	Received On: 21-Jan-25 16:10	Approved On: 21-Jan-25 17:14
Observation	Result	Unit	Biological Ref. Interval	Method
Lithium	0.4	mmol/L	0.6-1.2	

Biological Reference Interval:

Therapeutic : 0.6 - 1.2 mmol/L
Potentially Toxic : > 1.5 mmol/L
Severely Toxic : > 2.5 mmol/L

Clinical Note:

It is recommended to use a standard 12 hour post dose Lithium concentration to assess adequate therapy

Clinical Significance:

Lithium is available commercially as citrate and carbonate salts. Lithium salts are considered to be anti-manic agents and are used for the prophylaxis and treatment of bipolar disorder (Manic depressive psychosis). In addition, lithium is considered by some investigators to be the drug of choice for prevention of chronic cluster headache and may also be effective in episodic or periodic forms of cluster headache. Complete absorption of lithium occurs after 6-8 hrs of oral administration. Plasma half life varies from 17-36 hrs and onset of action is slow (5-10 days). Since lithium shows delayed and varied tissue distribution, symptoms of acute intoxication may not correlate well with serum levels. Toxicity may occur acutely as a result of single toxic dose or chronically from high / prolonged dosages of lithium. Fever, diarrhea, vomiting, diuretics and pyelonephritis are contributing factors in underlying chronic intoxication. Renal toxicity and hypothyroidism are also known side effects of lithium administration. Thus it is advisable to monitor creatinine and TSH levels periodically in patients on lithium.

Sample Type: Serum

Technology: Dry Chemistry (VITROS Microslide, MicroSensor & Intellicheck)

Analyzer: Fully Automated Biochemistry and Immunology Analyzer : VITROS 5600

Advise: Please correlate results with clinical conditions



This is a Demo Signature
and the doctor's signature should appear here

In case of any unexpected or alarming results, please contact us immediately for re-confirmation, clarifications, and rectifications, if needed.

