



Laboratory Investigation Report

Patient Name	Centre
Age/Gender	OP/IP No/UHID
MaxID/Lab ID	Collection Date/Time
Ref Doctor	Reporting Date/Time

Cytopathology
CSF Profile



CSF for Malignant Cells

Cytopathology Number:

C-323/22

Material: CSF for malignant cells. Received 12 ml of colourless clear fluid.

Clinical Data / Impression:

Microscopic Examination: CSF sediment smears are paucicellular showing occasional lymphocyte and monocyte with few squames in the background. No malignant cells are seen.

IMPRESSION: CSF Cytology: Negative for malignant cells.

Advise:

Kindly correlate with clinical findings

*** End Of Report ***


Dr. Komal Singla, M.D.(Path)
Consultant Pathologist

Test Performed at :1110 - Max Hospital Bathinda, Mansa Road, Near District Civil Hospital, Bathinda, Punjab 151001
Booking Centre :1110 - Max Hospital Bathinda, Mansa Road, Near District Civil Hospital, Bathinda, Punjab 151001
The authenticity of the report can be verified by scanning the Q R Code on top of the page

Page 1 of 2





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Hematology

CSF Profile



SIN No: BHA0160897

Test Name	Result	Unit	Bio Ref Interval
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CSF-Cell Type& Count, Glucose, Protein

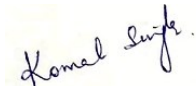
Volume.	12.00	mL	
Colour Visual Observation	Colorless		
Appearance	Transparent		
Viscosity	Normal		
Clot/Cob Web	ABSENT		
CSF Glucose UV-Hexokinase	59	mg/dL	40 - 70
CSF Protein Pyrogallol red	47.96	mg/dl	15 - 45
CSF TLC Manual -Neubar Chamber	02	Cells/cumm	

Differential Cell Count

CSF Lymphocytes Light Microscopy	100	%	
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Kindly correlate with clinical findings

*** End Of Report ***



Dr. Komal Singla, M.D.(Path)
Consultant Pathologist

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 CIVIL LINES
 BHATINDA

Name	Collected
Lab No.	Received
Gender:	Reported
A/c Status	Report Status

Test Name	Results	Units	Bio. Ref. Interval
MULTIPLE SCLEROSIS PANEL 2			
IMMUNOGLOBULIN IgG SYNTHESIS INDEX & RATE (BCG, Nephelometry, Immunoturbidimetry)			
Albumin Serum	3.87	g/dL	3.50 - 5.20
Immunoglobulin IgG, Serum**	1407.00	mg/dL	650.00 - 1600.00
Immunoglobulin IgG, CSF**	27.70	mg/L	<34.00
Albumin, CSF**	160.00	mg/L	<350.00
Immunoglobulin Synthesis Index**	0.48		0.30 - 0.70
Immunoglobulin Synthesis Rate**	-4.6	mg/day	-9.9 - 3.3

Interpretation

IMMUNOGLOBULIN SYNTHESIS INDEX	IMMUNOGLOBULIN SYNTHESIS RATE
value > 0.70 is indicative of increased IgG synthesis	value > 8mg/day is indicative of increased rate

Comments

Multiple sclerosis is a demyelinating disease involving the white matter of brain and spinal cord. It occurs more frequently in females usually during young adulthood with a wide variety of clinical manifestations. About 50 % of these patients undergo alternating periods of active disease and remission whereas the remaining have a chronic progressive course. These patients show increased synthesis of IgG abnormally within the CNS. However increased Immunoglobulins and Oligoclonal bands may also be found in other chronic inflammatory diseases of CNS like Meningo-encephalitis due to bacteria / viruses / fungi / parasites, Sub acute Sclerosing Panencephalitis and Guillain-Barre syndrome.





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Name	Gender:	Collected
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A/c Status		Reported
		Report Status

Test Name	Results	Units	Bio. Ref. Interval
OLIGOCLONAL BANDS IgG, CSF & SERUM (Immunoturbidimetry, Nephelometry, Isoelectric focusing)			
Immunoglobulin IgG, CSF**	27.70	mg/L	<34.00
Oligoclonal Bands, CSF**	Absent		
Immunoglobulin IgG, Serum**	1407.00	mg/dL	650.00 - 1600.00
Oligoclonal Bands, Serum	Absent		
Interpretation:- Oligoclonal bands not seen in both cerebrospinal fluid and serum.			

Note: Isoelectric focusing is the gold standard technique with greatest sensitivity & specificity for diagnosis of Multiple sclerosis

Interpretation

Comment

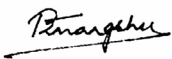
Increased intrathecal synthesis of immunoglobulins, particularly IgG, occurs in demyelinating diseases like Multiple sclerosis. Oligoclonal bands are present in 90% of patients with clinically diagnosed Multiple sclerosis. Simultaneous Isoelectric focusing of serum and CSF samples helps to distinguish between the production of oligoclonal bands due to Peripheral gammopathy from that due to local production in the CNS. Oligoclonal bands are also seen in Subacute sclerosing panencephalitis, Inflammatory polyneuropathy, CNS lupus & brain tumors.



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		Report Status

Test Name	Results	Units	Bio. Ref. Interval
MYELIN BASIC PROTEIN; MBP**	_Please Repeat Sample		



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Dr Manisha Sharma
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 Chief of Laboratory
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Dr Nimmi Kansal
 MD, Biochemistry
 Technical Director - Clinical Chemistry
 & Biochemical Genetics
 NRL - Dr Lal PathLabs Ltd

-----End of report -----



** Test conducted under NABL scope MC-2113, LPL-NATIONAL REFERENCE LAB at NEW DELHI

IMPORTANT INSTRUCTIONS

- Test results released pertain to the specimen submitted. •All test results are dependent on the quality of the sample received by the Laboratory .
 - Laboratory investigations are only a tool to facilitate in arriving at a diagnosis and should be clinically correlated by the Referring Physician. •Sample repeats are accepted on request of Referring Physician within 7 days post reporting. •Report delivery may be delayed due to unforeseen circumstances. Inconvenience is regretted. •Certain tests may require further testing at additional cost for derivation of exact value. Kindly submit request within 72 hours post reporting. •Test results may show interlaboratory variations. •The Courts/Forum at Delhi shall have exclusive jurisdiction in all disputes/claims concerning the test(s) & or results of test(s). •Test results are not valid for medico legal purposes.
 - Contact customer care Tel No. +91-11-39885050 for all queries related to test results.
- (#) Sample drawn from outside source.

