

**Laboratory Investigation Report**

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

Outsourced		SIN No: B2B4018527	
Test Name	Result	Unit	Bio Ref Interval
<b>CSF Measles (Rubeola) IgG Antibody (M)*</b>			
Serum IgG Measles	392.34	U/mL	
CSF IgG Measles	475.73	U/mL	
Serum			
Serum Total IgG	873	mg/dL	700 - 1600
CSF Total IgG	<b>4.69</b>	mg/dL	0.0 - 3.4
CSF/Serum Quotient reference	Positive, 3.78		CSFQ ref Normal: < 1.3~CSFQ ref Equivocal: 1.3- 1.5~CSFQ ref Positive: > 1.5

**Comment**
**Ref Range :**

Normal < 1.3

Equivocal 1.3 - 1.5

Positive > 1.5

**Test Interpretation :**

1. An intrathecal humoral immune response in most CNS infections are characterized by delayed oligoclonal or polyclonal response with IgG predominance given by memory B cells.
2. In order to diagnose this intrathecal immunoglobulin synthesis, clear discrimination between blood derived & brain derived proteins in CSF is required & hence simultaneous estimation of proteins in the paired serum & CSF samples is necessary. The concept used in the assay to discriminate between blood-derived & CSF-derived proteins is based on nonlinear (hyperbolic) functional relationship as described by Reiber & Lange (1991), which takes into account the Molecular flux, CSF flow rate, IgG (Total & pathogen specific) & Albumin quotient across the Blood-Brain barrier.
3. Measles specific IgG in serum (dilution 1:404) & CSF (dilution 1:2) is tested using Measles specific IgG ELISA kit having higher sensitivity (measuring range 5 to 100 U/ml) for which there are no established reference ranges. The results reported are further to be multiplied by the dilution factor as mentioned above followed by calculation of CSF/Serum Measles specific IgG quotient (Q IgG Measles specific).
4. Total IgG in serum & CSF is tested separately by nephelometry & CSF/Serum IgG quotient (Q IgG) is calculated.
5. CSF/Serum Quotient reference (CSFQ ref) is the ratio between CSF/serum Measles specific IgG quotient and CSF/serum Total IgG quotient or CSF/Serum albumin quotient is used for interpretation as mentioned in the reference interval. CSF/Serum Quotient reference (CSFQ ref) more than 1.5 is considered to be indicative of Measles specific antibody production in CNS.
6. Intrathecal immune responses are also noted with subacute (encephalopathy), acute (meningoencephalitis) inflammatory & chronic Autoimmune diseases, hence correlation with CSF cell counts, Clinical & Radiological findings is suggested for specific diagnosis.

Kindly correlate with clinical findings

\*\*\* End Of Report \*\*\*

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The authenticity of the report can be verified by scanning the Q R Code on top of the page

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**Conditions of Reporting:** 1. The tests are carried out in the lab with the presumption that the specimen belongs to the patient name as identified in the bill/test request form. 2. The test results relate specifically to the sample received in the lab and are presumed to have been generated and transported per specific instructions given by the physicians/laboratory. 3. The reported results are for the information and interpretation by the referring doctor only. 4. Some tests are referred to other laboratories to provide a wider test menu to the customer. 5. Max Healthcare shall in no event be liable for accidental damages loss, or destruction of specimen which is not attributable to any direct and mala fide act or omission of Max Healthcare or its employees. Liability of Max Healthcare for deficiency of services, or other errors and omissions shall be limited to fee paid by the patient for the relevant laboratory services.

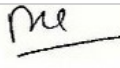
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