Pathkind Labs

Client

Gurugram

Pathkind Diagnostics Pvt. Ltd.

Plot No. 55-56, Udhyog Vihar Ph-IV, Gurugram - 122015

Processed By

Pathkind Diagnostics Pvt. Ltd.

Plot No. 55-56, Udhyog Vihar Ph-IV, Gurugram - 122015

Name	:	**Mr. CL04**	Billing Date	:	07/07/2023 12:17:08
Age	:	35 Yrs	Sample Collected on	:	10/07/2023 10:01:31
Sex	:	Male	Sample Received on	:	10/07/2023 11:02:13
P. ID No.	:	P1000100012576	Report Released on	:	20/07/2023 17:41:54
Accession No	:	**10002304632**	Barcode No.	:	10002304632-01
Referring Doctor	:	Self			
Referred By	:		Ref no.	:	

Report Status - Final

Test Name	Result	Biological Ref. Interval	Unit
	BIOCHEMISTRY		
# Acetylcholine Receptor (ACHR) Antibody (Binding) *Sample: Serum* *Method: Radio Immuno Assay*	**2.00 H**	Normal: < 0.4 Borderline: 0.4 - 0.5 High: >0.5	nmol/L

Acetylcholine Receptor (ACHR) Antibody

Interpretation:

1. Auto Antibody acetylcholine receptor Antibodies are heterogeneous regarding their biological effects. They can act as modulating or blocking antibodies. This test is Antibody binding assay and cannot ascertain biological effects of the Antibody.

2. Autoantibodies to the acetylcholine receptor are responsible for failure of the neuromuscular junction in Myasthenia Gravis

3. The frequency of ACHR antibody detection in MG patients with moderate to severe generalized MG, mild generalized MG, and ocular MG are found to be 93%, 88%, and 71% respectively.

4. These antibodies can also be found in some other disorders like- primary biliary cirrhosis, tardive dyskinesia, autoimmune thyroiditis, systemic lupus erythematous, thymoma without myasthenia, and amyotrophic lateral sclerosis.

5. The antibody titres can be negative or not detectable in the first 12 months after the onset of symptoms of MG or during immunosuppressant therapy.

6. The magnitude of the antibody titres correlates poorly with severity of MG and hence is not useful for predicting disease activity.

References-

1. Vincent A, Newsom-Davis J. Acetylcholine receptor antibody as a diagnostic test for myasthenia gravis: results in 153 validated cases and 2967 diagnostic assays. J Neurol Neurosurg Psychiatry 1985; 48: 1246-52.

2. Limberg PC, Hummel E, Relationship between changes in anti-acetylcholine receptor antibody concentration & disease severity in myasthenia gravis. Ann N Y Acad Sci 1981; 377: 859-61.

3. Garlepp MJ, Kay PH, Dawkins RL. The diagnostic significance of autoantibodies to the acetylcholine receptor. J Neuroimmunol 1982; 3: 337-50.

** End of Report**

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