



**TEST REFERRAL FORM**  
**Tzartos NeuroDiagnostics**

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**PATIENT'S NAME:**

Date of birth  M  F Tel. \_\_\_\_\_ Email: \_\_\_\_\_  
Address: \_\_\_\_\_

**BIOLOGICAL SAMPLE**

Serum  CSF (see note-1)  Blood  Other  
Date of blood collection: \_\_\_\_/\_\_\_\_/\_\_\_\_

**IMMUNOCHEMICAL DIAGNOSTIC TESTS: please choose the tests for autoantibodies against:**

**MYASTHENIA GRAVIS**

- Acetylcholine receptor , AChR (RIA)
- MuSK (RIA)
- Titin (ELISA)  Ryanodine receptor (RyR)\*  Agrin\*

**Same day test for anti-AChR and -MuSK antibodies by RIA** for samples received by 9.30 p.m. In case of ambiguous or borderline anti-AChR result, samples are also tested with a new ~5-10X more sensitive RIA for further confirmation of the presence or not of specific antibodies.

**Tests for "seronegative" MG by CBA**

- LRP4
- MuSK
- AChR clusters

**LEMS**

- Calcium channels (VGCC) type P/Q
- {  Calcium channels (VGCC) type N }

**AUTOIMMUNE DISAUTONOMIA**

- Ganglionic **α3-AChR by CBA** {  Hu(ANNA-1) }

**MYOSITIS (Polymyositis / Dermatomyositis) (16 antigens)**

Mi-2α, Mi-2β, Ku, PM-Sc100, PM-Sc175, SRP, Jo-1, PL-7, PI-12, OJ, EJ, Ro-52, TIF1γ, MDA5, NXP2, SAE1  All together

**Necrotizing Myositis**

- HMGCR\* (related to the use of statins)
- SRP (signal recognition particle)

**Inclusion Body Myositis**

- Mup44 (cytosolic 5- nucleotidase 1A, cN-1A)

**PERIPHERAL NEUROPATHIES** (Guillain-Barre, Miller Fisher, etc)

- MAG  SGPG
- Peripheral neuropathies type CIDP:  Neurofascin-155/186\*
- Contactin-1\*  Contactin-2\*  Caspr1\*
- Gangliosides:  GM1  GM2  GM3  GM4  GD1a
- GD1b  GD2  GD3  GT1a  GT1b  GQ1b  Sulfatide
- All gangliosides together

**MULTIPLE SCLEROSIS**

- Detection of oligoclonal IgG bands and determination of albumin and IgG concentration in serum and CSF
- NFL in serum (or plasma) (by SIMOA)**

**NEUROMYELITIS OPTICA (NMO) and CRION**

- Aquaporin-4 (CBA and quantitative RIA)
- MOG (myelin oligodendrocyte glycoprotein)
- Aquaporin-1 (free if requested with any other NMO test)
- GFAP protein in CSF

**AUTOIMMUNE MENINGOENCEPHALITIS**

- Anti-GFAP** (in CSF and/or serum)

**PARANEOPLASTIC SYNDROMES**

- 12 antigens** by blot and immunofluorescence in neural tissue: Hu (ANNA-1), Ri (ANNA-2), Yo (PCA-1), PNMA2 (Ma2/Ta), CV2 (CRMP-5), amphiphysin, recoverin, SOX1 (AGNA), zic4, Tr (DNER), GAD, Titin
- By CBA:  ITPR1  CARP VIII  TR(DNER)
- Kelch-like protein 11 (Kelch-11 η KLHL11).

**AUTOIMMUNE ENCEPHALITIS AND RELATED SYNDROMES**

- Caspr2 and LGI1 (proteins associated with potassium channels)
- NMDAR  AMPAR1,2  GABA<sub>B</sub>R  GABA<sub>A</sub>R\*  mGluR1\*
- mGluR5\*  DPPX  Iglon5\*  GAD  Glycine Receptor
- Dopamine Receptor -2 (DR2)\*  Neurexin-3α\*  K+ channels (VGKC)
- Kelch-like protein 11 (Kelch-11 η KLHL11)

**Test packages for autoimmune encephalitis syndromes:**

**LIMBIC and NMDA encephalitis:**

- NMDAR  AMPAR1,2  GABA<sub>B</sub>R  GAD  CASPR2+ LG1
- mGluR5,  Paraneoplastic antigens {  VGKC }

- PARANEOPLASTIC ENCEPHALITIS:** Kelch-like protein 11 (CBA)

**AUTOIMMUNE CEREBELLAR ATAXIA**

- Paraneoplastic antigens  TR(DNER)-CBA  GAD  mGluR1\*
- ITPR1  CARP VIII  VGCC-P/Q  Kelch-11

**AUTOIMMUNE EPILEPSY**

- VGKC  Caspr2 & LGI1  Paraneoplastic  NMDAR
- AMPAR1,2  GABA<sub>B</sub>R  mGluR5\*  GABA<sub>A</sub>R\*  GAD

**AUTOIMMUNE DEMENTIA**

- VGKC  Caspr2 & LGI1  Paraneoplastic antigens
- NMDAR  AMPAR1,2  GABA<sub>B</sub>R  GAD

- BEHAVIOR DISORDERS:**  NMDAR  Caspr2+LG1 {  AMPAR1,2,  VGKC }

- SLEEP DISORDERS of autoimmune etiology.:**  Caspr2+LG1  AQP4  NMDAR  IgLON5  Paraneoplastic (Ma2 , Ri)

- HYPOTHALAMIC DYSFUNCTION:**  Paraneoplastic: (Ma2)  CASPR2+ LGI1,  AQP4 {  VGKC }

- VISION DISORDERS of autoimmune etiology:**  AQP4,  MOG
- Paraneoplastic(CRMP-5/CV2, recoverin {Hu,Yo,Ma2,Ri,Tr}) {  VGCC-P/Q }

**STIFF-PERSON SYNDROME/PERM**

- GAD  Glycine Receptor  Paraneoplastic (amphiphysin)
- {  DPPX }

- AUTOIMMUNE CHOREA:**  Paraneoplastic (Hu,CV2),  GAD,  Caspr2+LG1

**OPSOCLONUS & MYOCLONUS**

- Paraneoplastic (Ri, Hu),  NMDAR {  LG1 }

- BRAINSTEM SYNDROME:**  AQP4  Paraneoplastic (CRMP-5, PCA-2, Hu, Ri, amphiphysin, Ma2)  Kelch-11

**AUTOIMMUNE MYELOPATHY:**  AQP4,  MOG

- Paraneoplastic (CRMP-5/CV2, amphiphysin, Hu, Ri, Yu, Ma2)

**SENSORIMOTOR NEUROPATHY of paraneoplastic etiology:**

- Paraneoplastic (Hu, Ri, Yo, CRMP-5/CV2, amphiphysin, SOX1)

**ALZHEIMER-1.** Detection in CSF of the proteins (result in 1 day):

- β- amyloid(1-42)  β-amyloid(1-40)  Tau  p-Tau(181)

**ALZHEIMER-2.** **Detection in plasma (by SIMOA):**

- p-Tau(181)  NFL

**CREUTZFELDT-JACOB:** Detection in CSF of the proteins:

- 14-3-3  Tau  p-Tau(181-p)

- PrPSc detection by RT-QuIC**

{ } : Tests in { } are considered of secondary significance for the specific diseases

\* : Tests with \* are performed in collaborating certified reference laboratories abroad, until we adopt them in our laboratory.

For diagnosis of most diseases we apply two different methods (particularly in the case of a positive result) or search for more than one biomarkers.

Who will receive the results (if not the patient):

**Name of referring doctor:**

Specialty: \_\_\_\_\_ Hospital: \_\_\_\_\_ Tel.: \_\_\_\_\_  
Do you wish to receive your patient's results by email?

**Doctor's stamp:**

**email:** \_\_\_\_\_

**For information: Tel. #30-210-6411060, Fax: #30-2106411067, email: info@neurodiagnostics.gr, www.neurodiagnostics.gr**

**Clinical data: Start of symptoms:** \_\_\_\_/\_\_\_\_/\_\_\_\_ **Likely diagnosis:** \_\_\_\_\_

**Symptoms:** \_\_\_\_\_

**Diagnostic tests already performed:** \_\_\_\_\_

**Treatments:** \_\_\_\_\_

**Other neurological and/or autoimmune diseases?** \_\_\_\_\_ **if yes, which?** \_\_\_\_\_