Clinical Lab Request Form - CSF Diagnostics

Insurer | Insurance ID | Date of Collection 20 | Sampling Time

Patient's date of birth | Patient (Surname, Family name) | Sex

Diagnosis | Phone | Fax/Email

Topelex

Laboratory for CSF, Neuroimmunology, Pathology & Special Diagnostics

Clinical summary, comments

Ordering Physician ID (Name, hospital, phone)

CSF ☐ Lumbar ☐ Ventricular ☐ Puncture ☐ Drainage

For complete diagnostics, please provide samples of 15ml CSF and 15ml of blood *Note : S-blood sample, CSF - cerebrospinal fluid sample*

Basic CSF Diagnostics *[CSF 1ml+ S1ml]*

☐ ***Cytology*** *[CSF 2ml]*
Total cell count, evaluation of microscope slides, cytochemical, immunocytochemical identification of elements (tumor cells, microorganisms)

☐ Total protein ☐ Glucose ☐ Lactate

Flow cytometry of CSF *[CSF 3ml]*
☐ Basic lymphocyte subpopulations and B-Lymphocyte panel (diff. dg. inflammations, B-cell lymphoma of the CNS)

☐ ***Spectrophotometry*** *[CSF]*

☐ ***CSF Leak*** *[CSF + S]*
(beta trace protein)

☐ Advanced CSF Diagnostics *[CSF 3ml + S 1ml]*

☐ FLC kappa ☐ FLC lambda ☐ ***Isoelectric Focusing (oligoclonal bands)***

☐ Immunoglobulins, Blood-CSF, Barrier Functions ☐ Albumin ☐ IgG ☐ IgM ☐ IgA ☐ **o-IgG** ☐ **o-IgM** ☐ **o-IgA** ☐ **o-FLC kappa** ☐ **o-FLC lambda**

☐ Special CSF Diagnostics *[CSF + S á 2,5 ml]*

☐ ***Inflammatory markers***
☐ IL-1 ☐ IL-6 ☐ IL-8 ☐ IL-10 ☐ TNF alfa ☐ CXCL13
☐ Orosomucoid (AAG) ☐ beta-2-microglobulin (BMG)
☐ Haptoglobin ☐ Transferrin ☐ Prealbumin ☐ CRP

☐ ***Destructive markers and neurodegenerative markers***
☐ S 100 [CSF/] ☐ NSE ☐ Apolipoprotein A1

Differential diagnostics of Alzheimer´s disease *[CSF 0,5 ml]*
☐ h-Tau/p-Tau, Amyloid Beta 1- 40/1-42*
☐ Neurofilaments pNf-H *[CSF]* ☐ Neurofilaments pNf-H sensitive assay *[Serum 0,5 ml]*
(Note: * Please use polypropylene sample tubes.)

Neurotropic infectious agents: PCR detection

[CSF 1ml = 1-4 pathogens]

☐ PCR Bacterial Meningitis Panel I. (N. meningitidis, H. influenzae, St. pneumoniae) **
☐ PCR Bacterial Meningitis Panel II. (Staphylococcus sp., Streptococcus sp., Enterobacteriaceae)**
☐ PCR MRSA screen (Methicillin resistant - S. aureus)
☐ PCR Mycotic panel (Aspergillus sp., Candida sp., Cryptococcus neoformans)**
☐ PCR Chlamydia and Mycoplasma pneumoniae
☐ PCR Anaplasma phagocytophilum (ehrlichiosis)
☐ PCR Borrelia burgdorferi s.l.
☐ PCR TBEV (Tick-borne encephalitis virus)
☐ PCR West Nile virus (WNV)
☐ PCR Herpes simplex virus 1,2 (HSV 1,2)
☐ PCR Varicella zoster virus (VZV)
☐ PCR Cytomegalovirus (CMV)
☐ PCR Epstein-Baar virus (EBV)
☐ PCR Human herpesvirus 6,7 (HHV 6,7)
☐ PCR Enteroviruses
☐ PCR JCV
☐ PCR Mycobacterium tuberculosis (TBC)
☐ PCR Leptospira interrogans
☐ PCR Listeria monocytogenes
☐ PCR Toxoplasma gondii
☐ PCR Mumps virus
☐ PCR Morbillivirus
☐ PCR Treponema pallidum
☐ PCR SARS-CoV-2 (Covid 19)

* * PCR test is only one method out of the set of examination methods,it does not replace a cultivation test.

Neuroimmunological Diagnostics

[S 1ml, event + CSF 2ml]

Preferred detection in blood, in CSF upon request.
☐ CSF ☐ S

☐ ***Autoantibodies incl. onconeurals (paraneoplastic)***
☐ Anti-Yo, Hu, Ri, Ma1, PNMA2Ma2/Ta CV2, Amphiphysin, Titin, SOX, GAD, Tr Zic4, Recoverin, PKC Y
☐ Anti-GAD (quantitative detection)
☐ Anti-Aquaporin4, Anti-MOG
☐ Anti-MAG, Anti-MBP
☐ Antiganglioside autoantibodies: (GM1/2/3/4, GD1a/1b/2/3, GT1a/1b, GQ1b)

☐ ***Neural membrane/ receptor autoantibodies- AE-LE set [CSF+S]***
☐ Anti-AMPAR 1/2, Anti-GABABR
☐ Anti-NMDAR
☐ Anti-VGKC (LGI-1/caspr 2) (incl. titrations in case of a positive finding)
☐ Anti-DPPX

☐ ***Autoantibodies in neuromuscular transmission disordes***
☐ Anti-Titin, Anti-SOX1
☐ Anti-AChR ☐ Anti-MuSK

Neurotropic infectious agents: Antibody detection including detection of intrathecal antibody synthesis

[one pathogen á 1ml CSF+S]

☐ ***Boreliosis***
Borrelia burgdorferi s.l. (IgG/M+WB)

☐ ***Herpetic viruses***
HSV 1/2 (IgG/M ELISA+WB)
VSV (IgG/M ELISA)
EBV (VCA IgG/M+WB)
CMV (IgG/M+WB)
In case of acute neuroinfections, PCR should be performed

☐ ***HIV [S]***
HIV 1/2, p24Ag

☐ ***Encephalitis***
TBEV (IgG/M ELISA)

☐ ***Neurolues***
Treponema pallidum (IgG/M+WB)

☐ ***Toxoplasmosis***
Toxoplasma gondii (IgG/M)

☐ ***Other microbial agents***
Chlamydia pneumoniae (IgG/M/A ELISA+WB)
Mycoplasma pneumoniae (IgG/M/A)

☐ ***SARS-CoV-2***
Anti-SARS-CoV-2 IgG, IgA, AI CSF

☐ **MRZH reaction** *[CSF+S á 0,5ml]*

Further specifications, requirements

PDF version of the laboratory request form and the list of laboratory methods accredited according to the ČSN EN ISO15189:2013 are available at www.likvor.cz.

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