PNP Premier Neurology & Pain Specialists

WWW.PNPSPECIALISTS.COM

T: 734-357-0505 F:734-357-0506

2211 Fort Street
Wyandotte, MI 48192

2300 Biddle Ave, Suite 100
Wyandotte, MI 48192

Patient Name_____

Date of Birth_____

Ordering Physician: Fadi Delly, MD

Serum Hematology/Coagulation :

____CBC profile with differential
____CBC profile without differential
____Blood Smear for neuroacanthocytosis
____PT/INR
____aPTT
____Anti-thrombin III activity
____Fibrinogen
____Protein C Antigen
____Protein C Activity (functional assay)
____Protein S Free and total antigen
____Protein S Activity (functional assay)
____Factor V leiden
____MTHFR gene mutation
____Lupus anticoagulant (Lupant Screen)
____Prothrombin G20210A
____Factor VIII
____Factor IX
____Factor XIa
____Anti-cardiolipin antiobody IgG and IgM
____Anti-Beta2 Glycoprotein antibody IgG and IgM
____Lupus Anticoagulant
____Homocysteine level

Serum Chemistry:

____BMP (Na/K/Cl/CO2/BUN/Cr/glucose)
____Phosphorus
____Magnesium
____Calcium total
____Calcium ionized
____Lipid Panel (Cholesterol, Triglyceride, LDL, HDL, Chol/HDL ratio)
____Triglycerides
____Iron Profile (Iron, Ferritin, Transferrin, TIBC)
____Creatinine Kinase (CPK)
____Aldolase
____Hemoglobin A1C
____Glucose
____Liver Function Test (AST, ALT, Alk Phosph, albumin, protein)
____Gamma glutamyl transpeptidase (GGT)
____Total Bilirubin
____Direct Bilirubin
____Lactate
____Uric acid
____Copper
____Ceruloplasmin
____Lead
____Mercury
____Zinc
____Vitamin E
____ACE, angiotensin converting enzyme
____Serum Organic and Amino Acids
____Alpha-fetoprotein (ataxia workup)
____Carnitine level
____Acylcarnitine profile

Serum endocrine studies:

____TSH
____ Free T3
____Total T3
____Free T4
____Total T4
____PTH
____Prolactin
____Cortisol
____ACTH
____FSH
____LH

Serum Infectious/Titters:

____CMV IgG and IgM
____CMV PCR
____EBV IgG and IgM
____EBV PCR
____Hepatitis Panel (A, B, and C)
____HSV 1 Titter and PCR
____HSV 2 Titer and PCR
____VZV IgG and IGM
____Toxoplasma IgG and IgM
____HIV 1 antibody
____HIV 2 Antiobody
____HTLV 1 Antibody and Reflex
____HTLV 2 Antibody and Reflex
____RPR
____VDRL
____FTAB
____Lyme serology
____Lyme PCR

Urine:

____Urine Analysis and Culture
____Urine Drug Screen
____Urine Organic and Amino Acids
____24-hr Urine Copper
____Urine Myoglobin

Serum Medication Levels:

____Valproic Acid Free & Total levels
____Phenytoin (Dilantin ™) Free & Total levels
____Phenobarbital
____Carbamazepine (Tegretol ™), Free & Total levels
____Levetiracetam (Keppra ™)
____Locosamide (Vimpat ™)
____Lamotrigine (Lamictal ™) Free & Total levels
____Topiramate (Topamax ™)
____Interferon neutralizing antibody
____Tysabri ™ neutralizing antibody
____Botox ™ -A neutralizing antibody
____Botox ™- B neutralizing antibody

Physician/NP/PA_____Date_____

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Serum Inflammatory/Auto-immune Studies:
- ____ Sed Rate (ESR)
- ____C-Reactive Protein (CRP)
- ____Oligoclonal bands
- ____Neuromyelitis Optica IgG (NMO antibody)
- ____Serum Protein Electrophoresis
- ____ANA
- ____ENA 1 & 2 (anti-Ro/SSA & anti-La/SSB)
- ____Double stranded DNA antibody
- ____Single stranded DNA antibody
- ____C3 complement component
- ____C4 complement component
- ____C3D Immune complexes
- ____Anti-topoisomerase antibodies (Anti-scl 70)
- ____Anti-centromere antibodies
- ____Cardiolipin Antibody
- ____ P-ANCA & C-ANCA
- ____Rheumatoid Factor (RF)
- ____Thyroperoxidase Antibodies (Anti-TPO)
- ____Thyroglobulin Microsomal Antibodies
- ____TSH Receptor Antibodies
- ____Paraneoplastic Panel
- ____Glutamic Acid Decarboxylase Antibody (Anti-GAD)
- ____NMDA Receptor Antibody
- ____Voltage Gated Potassium Channel Antibody
- ____Acetylcholine Receptor antibody
- ____Muscle-specific tyrosine kinase antibody (MuSK)
- ____Smooth muscle antibody
- ____Striated muscle antibody
- ____Anti-streptolysin O
- ____Anti-DNase B titters
- ____Anti-Cerebellar antibodies

Serum basic polyneuropathy diagnostic panel
- ____Electrolytes
- ____Complete Liver Function tests (LFTs)
- ____CBC with diff
- ____Erythrocyte sedimentation rate (ESR)
- ____B12 level
- ____Methylmalonic acid
- ____Homocysteine
- ____B6 (pyridoxine) level
- ____2-hour glucose tolerance test
- ____Hemoglobin A1C
- ____Thyroid Function Studies (TSH, Free T3 and T4)
- ____Serum immunofixation electrophoresis

Serum Neuronopathy diagnostic panel
- ____Lead
- ____Mercury
- ____Thalium
- ____Arsenic
- ____ENA (anti-SSA and SSB): Sjogrens
- ____B6 (pyridoxine) level
- ____Paraneoplastic panel

Serum polyneuropathy serology and infectious panel
- ____C –reactive protein (CRP)
- ____ANA
- ____ENA (anti-SSA and SSB)
- ____anti ds –DNA ab
- ____Rheumatoid factor (RF)
- ____Cytoplasmic Neutrophil Antibody (P-ANCA & C-ANCA)
- ____Proteinase 3
- ____Myeloperoxidase
- ____Complement (C3 and C4)
- ____Anti-Sulfatide antibody
- ____Angiotensin-converting enzyme (ACE)
- ____Hepatitis Panel (A, B and C)
- ____Cryoglobulin
- ____Anti-Gliadin IgG
- ____Anti-Gliadin IgA
- ____Transglutaminase
- ____Lyme serology disease panel
- ____RPR
- ____HIV 1 and 2
- ____Anti-Hu antibodies (for smokers)

Serum Acute/Chronic Demyelinating polyneuropathy
- ____Serum Immunofixation electrophoresis
- ____Urine Immunofixation electrophoresis
- ____IgG Paraprotein
- ____IgA Paraprotein
- ____IgM Paraprotein
- ____IgM Gammaopathy: Anti-myelin associated glycoprotein (anti-MAG)
- ____POEM: Vascular Endothelial growth factor (VEGF)
- ____MMN: Anti-GM1 antibody

Serum polyneuropathy Genetic Diagnostic panel
- ____CMT1A : PMP22 gene duplication and/or point mutation.
- ____CMT1B: MPZ gene
- ____CMT 2A: MFN2 gene
- ____CMT1X: GJB1 gene
- ____CMT1C: LITAF gene
- ____CMT1D: EGR2 gene
- ____CMT2 B: RAB7A gene
- ____CMT2C: TRPV4 gene
- ____CMT4C: SH3TC2 gene
- ____HNPP: PMP22 gene deletion and/or point mutation.
- ____HSAN I: SPTLC1 gene
- ____HSAN II: WNK1 gene
- ____Transthyretin (TTR) for amyloidosis

Inflammatory Myositis
- ____ANA
- ____ESR
- ____CK
- ____CRP
- ____LFTs: AST, ALT, Alk Phosph
- ____GGT
- ____Dermatomyositis: Anti-Jo 1 antibody
- ____Inclusion body: anti-cN1A antibody

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Cerebrospinal Fluid (CSF) analysis:

____Cell count-CSF
____Cell count differential-CSF
____Protein-CSF
____Glucose-CSF
____IgG index-CSF
____Oligoclonal bands-CSF
____NMO IgG/IgM-CSF
____Electrophoresis
____Lactate-CSF
____Pyruvate-CSF
____ACE, angiotensin converting enzyme
____Culture, Gram Stain with differential-CSF
____VDRL-CSF
____FTAB-CSF
____Virus Culture-CSF
____Cryptococcus Antigen-CSF
____Fungal Culture
____Mycobacterium-CSF, TB PCR
____Mycobacterium Culture-CSF
____Cytology-CSF
____CMV-CSF, PCR
____West Nile-CSF
____HSV 1-CSF, PCR
____HSV-2-CSF, PCR
____VZV-CSF, PCR
____EBV-CSF, PCR
____Lyme-CSF screen
____Toxoplasma IgG and IgM
____Protein 14-3-3, CSF
____Anti-Cerebellar antibody
____Amyloid-beta (Alzheimer Disease)
____Phosphorylated Tau
____Total Tau

Serum Studies

____Oligoclonal bands
____NMO (neuromyelitis optica)
____Glucose

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Serum Genetic Testing

____Huntington: HD/IT15 gene
____H-Like 1: PRNP gene
____H-Like 2: JPH gene
____Benign Hered Chorea: TITF-1 gene
____Dystonia (DYT1): TOR1A genes
____Dystonia (DYT5): GCH1 and TH genes
____Dystonia (DYT6): THAP1 gene
____Myc-Dyst: (DYT11): SCGE gene
____Wilsons: ATP7B gene
____PD: Aut dom: LRRK2, SNCA genes
____PD: Aut Rec: PARK2, PARK7, PINK1 genes

Serum Genetic Ataxia workup

____ Spinocerebellar ataxia panel: CAG repeat
____FRDA: FXN gene, GAA repats
____FXTAS: FMR1 gene, CGG reepats
____Episodic Ataxias: KCNA1, CACNA1A CACNB4 and SCL1A3 genes.

Inherited Stroke Syndromes

____Fabrys: Alpha-galactosidase A activity
____CADASIL: NOTCH3 gene
____CARASIL: HTRA1 gene
____RVCL: TREX1 gene
____MELAS: A3243G mutation
____MELAS: Complex I
____Moyamoya: RNF213 gene

Congenital Muscular Dystrophies

____Merosin: LAMA2 gene
____Collegen VI deficiency: COL6A1, COL6A2 and COL6A3 genes.

Congenital Myopathies

____Nemalin myopathy: NEB gene
____Nemalin myopathy: ACTA1 gene
____Central core: RYR1 gene
____Multiminicore: SEP1 gene, RYR1 genec
____Centronuclear myopathy: MTM1 gene

Muscular Dystrophies

____Dystrophinopathies: DMD
____FSHD: D4Z4 tandem repeat on 4q35
____Myotonic dystrophy 1: CTG repeats of DMPK gene
____Myotonic dystrophy 2: CCTG repeats of ZNF9 gene.
___Limb girdle myotonic dystrophies (LGMD)
____LGMD2A: CAPN3
____LGMD2B: DYSF gnee
____LGMD2I: FKRP gene

Metabolic Myopathies

____Glycogen storage disease II (GSD II, Pompe infants): Alpha-glucosidase activity and GAA gene analysis
____GSD V (McCardle): Myophosphorylase activity and PYGM gene analysis
____GSD VI (Tauri) Phosphofructokinase activity
____GSD XI: Lactate Dehydrogenase activity and LDH gene analysis
____GSD XII: Aldolase A
____Carnitine transporter deficiency: SLC22A5 gene analysis____MERFF: mtDNA, MK-TK: A8344G, T8356C, G8363A, G8361A
____MELAS: mtDNA; A3243G, T3271C, A3260G
____Kern Sayers: mtDNA: 8470_13446del4977

Channelopathies

____ Myotonia Congenita: CLNC1 gene
____Paramyotonia Congenita: SCN4A gene
____Other Na Channelopathies: SCN4A gene
____Hyperkalemic Periodic Paralysis: SCN4A gene
____Hypokalemic Periodic Paralysis: CACNA1S and SCN4A gene.
____ Anderson-Tawil: KCNJ2 gene
____Malignant Hyperthermia: RYR1 gene
____Thyrotoxic paralaysis: KCNJ18 gene

Inflammatory Myositis

____ANA
____ESR
____CK
____CRP
____LFTs: AST, ALT, Alk Phosph
____GGT
____Dermatomyositis: Anti-Jo 1 antibody
____Inclusion body: anti-cN1A antibody
____Statin myositis: Anti-HMG-CoA Reductase antibody And SLCO1B1 gene analysis

Cognitive disorders

____AD: APOE, APP, PSEN1 and PSEN2
____FTD: MAPT, GRN and C90RF72 gene analysis

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