

## ADVANCED INVESTIGATION

- **Proteins:**
  - Protein – Total (Blood, Urine, Fluids)
  - Protein Electrophoresis- Blood
  - Protein Electrophoresis- Urine
  - Albumin (CSF, Urine, US, AF, Fluids)
  - Beta Microglobulin
  - Alpha Heavy Chain
  - Kappa Light Chain
  - Lambda Light Chain
  - Kappa/Lambda Ratio
- **Vitamins & Nutrients:**
  - 25-OH Vitamin D (Vitamin D Total D3+D2)
  - 1,25 Dihydroxy Vitamin D3
  - Folate
  - Folate in RBC's
  - Iron
  - Ferritin
  - Copper (Chemistry & Atomic Absorption)
  - Zinc
  - Magnesium
  - Biotin (Vitamin H)
  - $\beta$ -Carotene
  - Thiamin (Vitamin B<sub>1</sub>)
  - Riboflavin (Vitamin B<sub>2</sub>)
  - Niacin (Vitamin B<sub>3</sub>)
  - Iodine
  - Selenium
  - Chromium
  - Cobalt
  - Manganese
- **Therapeutic Drug Monitoring (TDM):**
  - Acetaminophen (Paracetamol)
  - Amikacin
  - Amiodarone
  - Amitriptyline
  - Azathioprine (Immunosuppressant)
  - Bromazepam
  - Caffeine Level
  - Carbamazepine (Tegretol)
  - Clonazepam
  - Convex (Valproic Acid)/ (Depakin)
  - Cyclosporine
  - Diazepam (Valium)
  - Digoxin
  - Epanutin (Phenytoin)
  - Fluoxetine (Prozac)
  - Gentamicin
  - Keppra (Levetiracetam)

- Lamictal (Lamotrogine)
- Lithium
- Luminal (Phenobarbital)
- Methotrexate
- Mycophenolic Acid
- Oxcarbazepine (Trileptal)
- Oxcarbazepine  $\gamma$ -OH Metabolite
- Phenobarbital
- Phenytoin
- Primidone (Anticonvulsant)
- Risperidone
- Sirolimus (Rapamune)
- Tacrolimus (Prograf)
- Theophylline
- Antidepressants (Group Panel)
- Benzodiazepines (Group Panel)
- **Toxicology/Drug Screening:**
  - Acetone (Screen)
  - Alcohol (Ethanol)
  - Amphetamines
  - Barbiturates
  - Benzodiazepines
  - Cannabinoids (Marijuana)
  - Cocaine
  - Cotinine (Nicotine)
  - Drugs' Quantitation Group I- $\circ$  (Amphetamines, Benzodiazepines, Opiates, Cannabinoids, Cocaine)
  - Drugs' Quantitation Group II- $\circ$  (Barbiturates, Methadone, Methaqualone, Phencyclidine, Propoxyphen)
  - Heavy Metal by A.A. Graphite(Lead,Zinc,Copper),EACH
  - Heavy Metal by A.A. Hydrite (mercury,gold,arsenic,aluminum),EACH
  - Heavy Metals Panel
  - Lead
  - Mercury
  - Thallium
  - Methadone
  - Methaemoglobin
  - Multi Drug Screen
  - Nicotine (Cotinine)
  - Opiates
  - Phencyclidine
  - Propoxyphene
  - Arsenic
- **Special Chemistry / Metabolic Markers:**
  - 11-Desoxycortisol
  - 17-Ketosteroids
  - 17-OH Progesterone
  - 17-Hydroxycorticosteroid
  - 17-Hydroxypregnenolone
  - Aldolase

- Amino Levulinic Acid (ALA)
- Amyloid A-Blood
- Amyloid B
- $\beta$ -Cross Laps (CTX)
- C- Terminal Telopeptides
- Catecholamines (TOTAL+FREE+FRACTION)
- Citric Acid
- Coenzyme Q<sub>10</sub>
- D-Dimer (Quantitative)
- Delta Aminolevulinic Acid (DALA)
- Deoxypyridinoline (Pyrilinks-D)
- Fructosamine
- Fructose
- Glycosaminoglycans – Total
- Histamine
- Homogentisic acid HGA
- Homovanillic acid HVA
- Hydroxyproline
- Ketones (Qualitative & Quantitative)
- Lactate
- Methylmalonic Acid
- Myoglobin- Blood (Quantitative)
- Myoglobin- Urine
- N- Telepeptide (NTX)
- Osmolality (measured)
- Ostase
- Oxalate (Quantitative)
- Porphobilinogen (Quantitative)
- Porphyrins – Total (Urine & Stool)
- Pyruvate
- Reducing Substances
- Serotonine (Blood & Urine)
- Soluble Fms-like Tyrosine Kinase- $\alpha$  (sFlt- $\alpha$ )
- sFlt- $\alpha$ /PIGF Ratio
- Thiopurin-SMethyltransferase (Partial list, cutoff)
- **Amino Acids/Organic Acids/Metabolic Screens:**
  - Acylcarnitine
  - Amino Acid- Blood Chromatography (Quantitative)
  - Amino Acids- Urine Chromatography (Quantitative)
  - Alanine
  - Arginine
  - Asporagine
  - Cystine (Quantitative)
  - DNPH (Dinitrophenylhydrazine)
  - Glutamine
  - Glycine
  - Isoleucine
  - Leucine
  - Lysine
  - Ornithine

- Phenylalanine (quantitative)
  - Serine
  - Organic Acids (Urine)
  - Neonatal Screening-<sup>39</sup> (Amino Acids-<sup>13</sup>, Fatty Acids-<sup>13</sup>, Organic Acids-<sup>13</sup>)
  - Neonatal PKU
  - Fructose intolerance
  - Lactose intolerance by PCR
  - Lactose Tolerance Test
  - Mucopolysaccharides
  - Fatty Acid
- **Coagulation & Thrombosis:**
    - PT (Prothrombin Time)
    - PTT (Partial Thromboplastin Time)
    - Fibrinogen
    - Fibrinogen Degradation Product (FDP)
    - D-Dimer (Quantitative)
    - Anti Thrombin III
    - Protein C
    - Protein S (Total & Free)
    - Lupus Anticoagulant
    - Activated Protein C–Factor V Leidin-<sup>1691</sup>
    - Activated Protein C(Functional)–Factor V
    - FII (Functional)
    - FII Prothrombin by PCR
    - FV Cambridge Gene (R<sup>3</sup>·<sup>1</sup>T) by PCR
    - FV (Functional)
    - FV Hong Kong Gene by PCR
    - FV Leidin – <sup>1691</sup> (Activated Protein C) by PCR
    - FV (Codon <sup>1702</sup>) by PCR
    - FV HR<sup>2</sup> Aplotype (Codon <sup>1299</sup>) by PCR
    - FVII (Functional)
    - FVIII (Functional)
    - FIX (Functional)
    - FX (Functional)
    - FXI (Functional)
    - FXII (Functional)
    - FXIII (Functional)
    - FXIII by PCR
    - Heparin (low molecular weight F.Xa)
    - Heparin Induced Thrombocytopenia (HIT)
    - Platelets Aggregation: Aspirin, Plavix, Efiect, TRAP
    - Aspirin Resistance test
  - **Erythrocyte Disorders:**
    - Coomb's Direct
    - Coomb's Indirect
    - Erythrocyte Osmotic Fragility
    - Hemoglobin Capillary Electrophoresis
    - Hemoglobin S Screen

- Hemoglobin, Total
- Heinz Inclusion Bodies
- G<sup>6</sup>PD (Quantitative)
- HAM's Test
- Pyruvate Kinase
- Sickling Test
- **Other Hematology:**
  - Haptoglobin
  - Haptoglobin phenotype
  - LAP Score (Leukocytes Alkaline Phosphatase)
  - Natural Killer Cells
- **Autoimmune Markers (General & Systemic):**
  - ANA (Anti Nuclear Abs)
  - cANCA (Anti Neutrophil Cytoplasmic Abs)
  - pANCA (Anti Neutrophil Cytoplasmic Abs)
  - Anti Centromere
  - Anti DNA (ds)
  - Anti DNA (ss)
  - Anti-Histone Ab's
  - Anti Mitochondrial Abs
  - Anti-MPO Ab's (ANCA-C)
  - Anti-PCNA (proliferating cell nuclear Ag)
  - Anti Phospholipids IgG
  - Anti Phospholipids IgM
  - Anti-PR- $\gamma$  (ANCA-P)
  - Anti Smooth Muscle Abs (ASMA)
  - Anti Tissue Transglutaminase IgA
  - Anti Tissue Transglutaminase IgG
  - Anti Cardiolipin IgG
  - Anti Cardiolipin IgM
  - $\beta$  $\gamma$  GPI IgG (Anti  $\beta$  $\gamma$ -Glycoprotein I) IgG
  - $\beta$  $\gamma$  GPI IgM (Anti  $\beta$  $\gamma$ -Glycoprotein I) IgM
  - Autoimmune Liver Antigen Profile (SLA, M $\gamma$ , LKM, LC $\gamma$ )
  - Extractable Nuclear Antigens (ENA- $\gamma$   $\epsilon$ )
  - Rheumatoid Factor Isotypes IgA/IgG/IgM
  - RF II (Quantitative)
  - Systemic Lupus Erythematosus-SLE (LE Cells)
  - Soluble Liver Antigen
- **Autoimmune Markers (Organ Specific):**
  - Anti Adrenal Gland Abs
  - Anti Chief Cells Ab's
  - Anti Epidermal Abs
  - Anti Glomerular Basement Membrane
  - Anti Insulin Abs (Type I DM)
  - Anti Intrinsic Factor Abs
  - Anti Islet Cells Abs (Type I DM)
  - $\beta$ -Islet Cell Abs
  - Anti Keratin Abs
  - Anti Liver-Kidney Microsomal- $\gamma$  (LKM- $\gamma$  Abs)

- Anti Ovarian Abs
- Anti P<sub>ε</sub>-hydroxylase
- Anti Parietal Cells Abs
- Anti Pituitary Gland Abs
- Anti Skin Abs IgA/IgG/IgM (by Indirect IF)
- Anti Skeletal Muscle Abs
- Anti Sperm Abs
- Anti Striated Muscle Abs
- Anti Testicular Abs
- Anti Thyroglobulin (A-TG)
- Anti Thyroid Microsomal Abs (ATMA)
- Anti Thyroid Peroxidase (ATPO)
- Anti TSH Receptor Abs
- Indirect Immunofluorescence for Skin Ab's
- **Complement System:**
  - C<sub>1</sub>q-Binding Immune Complex
  - C<sub>1</sub>q Complement
  - C<sub>1</sub> Esterase Inhibitor – Level
  - C<sub>2</sub> (Complement 2)
  - C<sub>3</sub>
  - C<sub>4</sub>
  - C<sub>5</sub> (Complement 5)
  - C<sub>6</sub> (Complement 6)
  - C<sub>7</sub> (Complement 7)
  - C<sub>8</sub> (Complement 8)
  - CH<sub>50</sub> (Complement Hemolytic)
- **Immunoglobulins:**
  - IgA
  - IgD
  - IgE
  - IgG
  - IgG Subclasses
  - IgM
  - Immunofixation-Urine
  - Immunofixation-Blood/ Immunoglobulins Electrophoresis
- **Allergy Testing:**
  - Allergy Panel-30\* (Food)
  - Allergy Panel-30\* (Inhalation)
  - Allergy Panel IgE Class Abs for Drugs – 10\*
  - Allergen specific igE, pediatric panel
  - Food Intolerance Test -220
- **Viral Infections:**
  - Adenovirus (Ag, IgA, IgG, IgM)
  - CMV (IgG, IgM, PCR Quantitative)
  - Coxsackie virus (PCR, A IgA/IgG/IgM, B(1-6) IgA/IgG/IgM)
  - Dengue (IgG, IgM)
  - Diphtheria Toxoid Abs
  - EBV (Ab Profile IgG/IgM, PCR Qualitative, NA IgA/IgG/IgM, VCA IgA/IgG/IgM)

- Echovirus (IgA, IgG, IgM)
- FLAVI VIRUS
- Flu VIRUS by PCR
- H<sup>1</sup>N<sup>1</sup> by PCR (Swine Influenza Virus)
- HAV (Ag, IgM, Total, IgG)
- HBcAb (IgM, Total)
- HBeAb
- HBeAg
- HBsAb
- HBsAg
- HBV (Quantitative) by PCR
- HCV Ab
- HCV Ag
- HCV (Quantitative) by PCR
- HCV Genotyping by PCR
- HDV (IgM, Total, Ag)
- HEV (IgM, IgG)
- Herpes Simplex I & II (PCR, IgG, IgM, I&II IgG/IgM Combined)
- HH<sup>v</sup> or HH<sup>λ</sup>
- HIV-I (Quantitative) by PCR
- HIV-II (Quantitative) by PCR
- HIV I+II (Quantitative) by PCR
- HIV Combo (Ag, I & II Abs)
- HTLV I & II [Human T-cell Lymphotropic Virus]
- Human Metapneumonia virus
- HPV Human Papilloma Virus
- Influenzae A (IgA, IgG, IgM)
- Influenzae B (IgA, IgG, IgM)
- Measles (IgA, IgG, IgM)
- Monospot Test
- Mumps (IgA, IgG, IgM)
- Norovirus Geno Group I&II
- Parainfluenza I, II, III (IgA, IgG, IgM)
- Parvovirus (IgG, IgM)
- Poliovirus-I, II, III Abs
- Respiratory Syncytial (IgA, IgG, IgM)
- Rotavirus
- Rotavirus + Adenovirus
- Rubella (IgG, IgM)
- Coxsackie virus by PCR
- Enterovirus By PCR
- **Bacterial Infections:**
  - AFB (Acid Fast Bacilli)
  - Bartonella henselae Ab's
  - Bordetella Pertussis (IgA, IgG)
  - Borrelia burgdorferi (IgA, IgG, IgM, PCR)
  - Brucella (Screen, IgG, IgM)
  - Campylobacter jejuni (IgA, IgG)
  - Candida (IgA, IgG, IgM)
  - Chlamydia Antigen

- Chlamydia pneumonia (IgA, IgG, IgM)
- Chlamydia trachomatis (IgA, IgG, IgM, PCR)
- Chlamydia + Neisseria by PCR
- Clostridium Difficile (Endotoxin A+B, Ag)
- Coxiella Burnetti (IgG, IgM)
- Dengue (IgG, IgM)
- Gardnerella Test
- Gardnerella vaginalis by PCR
- H. pylori (Ag, Screen, IgA, IgG, DNA PCR)
- Legionella Antigen (Screen)
- Legionella pneumophila (IgG, IgM)
- Leisteria Abs (IgA, IgG, IgM)
- Leisteria Ag
- Leptospira sejroe Ab- Total
- Leptospiral (IgA, IgG, IgM)
- MRSA, by PCR
- Mtb/RIF By PCR
- Mycobacterium tuberculosis (T.B.) by PCR
- Mycoplasma pneumoniae (IgA, IgG, IgM)
- Neisseria gonorrhoea Ab's
- Neisseria gonorrhoea by PCR
- Pneumococcus IgG
- Q Fever Ab's
- Rapid Plasma Reagin (RPR) Test (Syphilis)
- Shigella or Salmonella Ag
- Strep A (Group A Streptococcal Ag.)
- Syphilis Abs (Treponema pallidum Total Abs)
- Anti Treponema pallidum Abs IgM
- Quantiferon Gold Test (For T.B.)
- STD-10 by PCR (Sexual Transmitted Diseases)
- **Parasitic/Fungal Infections:**
  - Amoeba Ab's
  - Anti Filaria Abs
  - Anti Strongyloides IgG
  - Aspergillus Ab's IgG/IgM
  - Aspergillus fumigatus Ab's
  - Echinococcus
  - Entamoeba histolytica Ag
  - Filaria Antibodies
  - Filaria Smear
  - Giardia Ag
  - Leishmania (IgA, IgG, IgM, smear)
  - Malaria Abs. (Screen)
  - Malaria Ag. (Plasmodium falciparum, Plasmodium spp.)
  - Malaria Smear
  - Shistosoma Abs-Blood (Bilharziasis-Blood)
  - Shistosoma – Screening (Bilharziasis- Screening)
  - Stool Celisa (Amoeba, Giardia)

## Cytogenetics/Karyotyping:

- Chromosomal Study- Blood (Karyotyping)
- Chromosomal Study–Special (Karyotyping) (AF/BM/CVS/D)
- FISH (Fluorescence In Situ Hybridization) Panels (X,Y, 13, 18, 21, Digeeorge, Miller dieker, Prader – Willi, combinations)
- **Next-Generation Sequencing (NGS):**
  - Whole Exome Sequencing (WES)
  - Whole Genome Sequencing (WGS)
- **Molecular Genetics / DNA Testing:**
  - Alpha Thalassaemia by PCR
  - Alpha Thalassemia Gene sequencing
  - Alzheimer Gene screen
  - Androgen Receptor
  - $\beta$ -Thalassaemia by PCR
  - BCL I&II
  - BCR-ABL (PCR)
  - BRCA1 & BRCA2
  - Cardiovascular Disease Mutations-CVD-12 by PCR
  - Celiac disease gene
  - CLL Panel / GLI:(13q13), ATM: (11q22), p53: (17p13), DLEU: 13q14
  - Congenital Adrenal Hyperplasia (PCR)
  - Congenital absence of vas deference
  - Congenital Deafness screen
  - Colon cancer
  - Cystic Fibrosis-36 by PCR
  - Cystic Fibrosis (Full CFTR Gene)
  - Familial Mediterranean Fever (FMF) by PCR (12 Mutations)
  - FII Prothrombin by PCR
  - FLT3
  - FV Cambridge Gene (R307T) by PCR
  - FV Hong Kong Gene by PCR
  - FV Leiden – 1691 (Activated Protein C) by PCR
  - FV (Codon 1702) by PCR
  - FV HR2 Aplotype (Codon 1299) by PCR
  - FXIII by PCR
  - Fragile X Syndrome by Sequencing
  - FRIEDRICH's ATAXIA
  - GAD Abs (Anti Glutamic Acid Decarboxylase)
  - Genetic screen full sequence (up to 2, 6-10, more than 10 genes)
  - Hearing Loss Panel
  - HLA (A,B,C, DR) by PCR
  - HLA B27 by PCR
  - HLA B8 by PCR
  - HLA DQ by PCR
  - HLA DR by PCR
  - Homocysteine Gene (MTHFR – C677T & A1298C) by PCR
  - Huntingon Disease
  - IGR (idiopathic growth retardation)
  - Intersex

- Lactose intolerance by PCR
- MTHFR – C<sup>677T</sup> by PCR (Homocystein Gene)
- MTHFR – A<sup>1298C</sup> by PCR
- Myotonic Dystrophy
- Neonatal Haemoglobinopathies
- NIPT (Non-invasive Prenatal Testing: 13,18,21,X,Y) by NGS
- ONCOblot
- ONCOsure
- Osteogenesis Imperfecta screen
- Parkinson screen
- Paternity Testing (STR's)
- Peripheral Neuropathy Panel
- PML-PARa
- SRY (Sex-determining Region Y protein)
- Sibling Testing (STR's)
- Celiac disease gene
- **Flow Cytometry/Immunophenotyping:**
  - ALL Panel, Flow Cytometry
  - AML Panel, Flow Cytometry
  - CD Markers (CD 1a to CD 125 - extensive list for various cell types)
  - CLL Panel, Flow Cytometry
  - Immunophenotyping (surface markers by FLOWCYTOMETRY for: Leukemia and Lymphoma (each marker))
  - Leukaemia Panel
  - Lymphoma Panel
- **Tissue Pathology:**
  - Immunofluorescence study on Tissue
  - Culture- Tissue
- **Female Hormones:**
  - 17-Beta Estradiol – E2
  - Androstenedione
  - Estradiol (E<sub>2</sub>)
  - Estrogen (total)
  - Estriol Free (FE<sub>3</sub>)
  - Estrone (E<sub>1</sub>)
  - FSH (Follicle-Stimulating Hormone)
  - LH (Luteinizing Hormone)
  - Progesterone II
  - Prolactin
  - Testosterone Bioavailable
  - Testosterone- Free
  - Testosterone – Total
  - Sex Hormone Binding Globulin (SHBG)
  - Anti Mullerian Hormone / Mullerian Inhibiting Substance
  - Inhibin A
  - Inhibin B
  - Macroprolactin

- **Male Hormones:**
  - Dihydrotestosterone
  - Free Androgen Index (FAI)
- **Tumor Markers (Reproductive):**
  - CA 125
  - CA 15-3
  - CA 19-9
  - CA 20
  - CA 22-3
  - HE 4 (Human Epidermal Protein – 4)
  - PSA – Free
  - PSA – Total III
  - Squamous Cell Carcinoma (SCC)
  - Carcinoembryonic Antigen (CEA)
  - Cyfra 21-1
  - NSE (Neuron Specific Enolase)
- **Pregnancy & Prenatal Screening:**
  - Pregnancy Test
  - $\beta$ -HCG – Free
  - $\beta$ -HCG
  - 1st Trimester Prenatal Interpretive Screening
  - Down Syndrome Dual Test 1st Trimester (PAPP-a, Free  $\beta$ -HCG)
  - Down Syndrome (AFP,  $\beta$ -HCG, FE $\alpha$ )(Triple Test)
  - Down Syndrome (AFP,  $\beta$ -HCG, FE $\alpha$ , Inhibin A) (Quadruple Test)
  - Integrated Test (wk 12 + wk 16)
  - Quadruple Test
  - PAPP-a
  - Placental Growth Factor (PIGF)
  - Soluble Fms-like Tyrosine Kinase-1 (sFlt-1)
  - sFlt-1/PIGF Ratio
- **Infertility:**
  - Anti Sperm Abs
  - Sperm sex selection
  - Sperm Wash (IUI)
  - Seminal Fluid Analysis (dynamic,non-CAZA)
  - Carrier screening test (pre-marital 100)
  - Baby Sure (Call)
- **Culture & Sensitivity:**
  - Culture-Routine (Urine)
  - Culture-Special (ST/HVS/EnS/SP/SF/ UrS/ES/BF - Swabs, fluids, etc.)
  - Culture-Blood
  - Culture-Fungi (without/with Sensitivity)
  - Culture-T.B.
  - Culture- Tissue
  - KOH Smear (for Fungi)
- **Direct Smears/Microscopy:**
  - Direct Smear (Various)
  - AFB (Acid Fast Bacilli) Smear
  - Filaria Smear

- Gram Stain
- Leishmania smear
- Malaria Smear
- Sudan III (Stool fat)
- **Antigen Detection (Non-PCR):**
  - Adenovirus + Rotavirus (Stool)
  - Adenovirus Ag (Stool)
  - Bladder Tumor Ag (Urine)
  - Clostridium Difficile Ag (Stool)
  - E. Coli stool Antigen (EHEC)
  - Entamoeba histolytica Ag (Stool)
  - H. pylori Antigen (Stool)
  - Legionella Antigen (Urine)
  - Malaria Ag. (Plasmodium falciparum, Plasmodium spp.)
  - Strep A (Group A Streptococcal Ag.) (Throat Swab)
  - Shigella or Salmonella Ag (Stool)
  - Rotavirus (Stool)
  - Rotavirus + Adenovirus (Stool)
- **Stool & Urine Specific:**
  - Stool Analysis
  - Stool Celisa (Amoeba, Giardia)
  - Stone Analysis
  - Urine Analysis (implied by various U/US tests)
- **Neurological Autoantibodies:**
  - Acetylcholine Receptor Abs (Titer)
  - Anti Aquaporin (Neuromyelitis optica) IgA/IgG/IgM
  - Anti Amphiphysin Antibodies, Serum
  - Anti Gangliosides IgG/IgM (Individual and Panels)
  - Anti Glutamate Receptor (NMDA) Antibodies IgG/IgM
  - Anti Ma Antibodies
  - Anti Muscle Specific Tyrosine Kinase (Anti MuSK)
  - Anti Myelin Associated Glycoprotein Abs (Anti MAG)
  - Anti Neuronal Nuclear Antigens (Hu, Ri, Yo, PNMA<sup>γ</sup>-Mac<sup>γ</sup>/Ta, Amphiphysin, CV<sup>γ</sup>/CRMP<sup>o</sup>)
  - Neuromyelitis optica (Anti-Aquaporin) IgA/IgG/IgM
  - Neuronal Nuclear Antigens Abs (Hu, Ri, Yo, PNMA<sup>γ</sup>- Mac<sup>γ</sup>/Ta, Amphiphysin, CV<sup>γ</sup>/CRMP<sup>o</sup>)
- **CSF Analysis:**
  - CSF Albumin
  - CSF Albumin Index
  - CSF Analysis
  - CSF IgG
  - CSF IgG Index
  - CSF IgG Synthesis
  - CSF Index (IgG/Albumin)
  - CSF Latex (Streptococcus B, H.influenzae, S. pneumonia, N.meningitides ABCY, E. coli K<sup>1</sup>)
  - CSF Oligoclonal Banding (Oligoclonal Banding)
  - Oligoclonal Banding (S+CSF)

- **Other Neuro:**
  - Charcot Maric tooth screen
- **Pharmacogenomics/Drug Response:**
  - Anti Adalimumb Abs
  - Anti Infiximab Abs
  - Infiximab Abs
  - Infiximab Level
  - Clopidogrel (Call)
- **Genetic / Inherited Metabolic Diseases:**
  - Alpha-Fucosidase
  - Alpha-Glucosidase I
  - Alpha-Galactosidase
  - Alpha-Iduronidase
  - Arylsulfatase A
  - Gal-1 P-Uridyl Transferase (Quantitative)
  - Galactokinase
  - Galactose
  - Hexosaminidase – Total
  - Hexosaminidase A
  - Iduronat-γ-Sulfatase
  - Neonatal Galactose- Total
  - Coproporphyrins (Quantitative)
  - Porphyrins – Total
- **Fluids Analysis (General):**
  - Fluids Analysis without chemicals
  - Synovial Fluid Analysis (Cells,Glucose,Protein,Crystals)
  - Bilirubin Spectral Curve (Liley Zone)
  - Liley's Zone
  - pH (Various)

**Remarks Key (as provided by you):**

- **Dy/A:** Daily (or As Directed/Available)
- **S:** Serum
- **ABS:** Serum (presumably Acute Blood Sample)
- **U:** Urine
- **24U:** 24-hour Urine
- **EWB:** EDTA Whole Blood
- **HWB:** Heparin Whole Blood
- **CP:** Citrated Plasma
- **EP:** EDTA Plasma
- **HP:** Heparin Plasma
- **AF:** Amniotic Fluid
- **BF:** Bronchial Fluid / Body Fluid
- **BM:** Bone Marrow
- **CSF:** Cerebrospinal Fluid
- **D:** Direct Sample (e.g., discharge)

- **DB:** Dried Blood Spot
- **EnS:** Endocervical Swab
- **ES:** Eye Swab
- **FP:** Fluoride Plasma
- **GnS:** Genital Swab
- **HVS:** High Vaginal Swab
- **LBC:** Liquid Based Cytology
- **NS:** Nasal Swab
- **SF:** Synovial Fluid / Seminal Fluid
- **SP:** Sputum
- **ST:** Stool
- **US:** Random Urine Sample (or unspecified urine)
- **CWB:** Cord Whole Blood
- **LI-HEP:** Lithium Heparin
- **ASP:** Aspirate
- **Vacutec:** Vacutainer tube for collection
- **Call:** Call for details/appointment/specific instructions.