HISTOPATHOLOGY & CYTOGENETICS & MOLECULAR GENETICS

- **Cytogenetics/Karyotyping:**
  - Chromosomal Study- Blood (Karyotyping)
  - Chromosomal Study–Special (Karyotyping) (AF/BM/CVS/D)
  - FISH (Fluorescence In Situ Hybridization) Panels (X,Y, ١٣, ١٨, ٢١, Digeorge, 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
  - β-Thalassaemia by PCR
  - BCL I&II
  - BCR-ABL (PCR)
  - BRCA١ & BRCA٢
  - Cardiovascular Disease Mutations-CVD-١٢ by PCR
  - Celiac disease gene
  - CLL Panel / GLI:(١٢q١٣), ATM: (١١q٢٢), p٥٣: (١٧p١٣), DLEU: ١٣q١٤
  - Congenital Adrenal Hyperplasia (PCR)
  - Congenital biabsence of vas deference
  - Congenital Deafness screen
  - Colon cancer
  - Cystic Fibrosis-٣٦ by PCR
  - Cystic Fibrosis (Full CFTR Gene)
  - Familial Mediterranean Fever (FMF) by PCR (١٢ Mutations)
  - FII Prothrombin by PCR
  - FLT٣
  - FV Cambridge Gene (R٣٠٦T) by PCR
  - FV Hong Kong Gene by PCR
  - FV Leidin – ١٦٩١ (Activated Protein C) by PCR
  - FV (Codon ١٧٠٢) by PCR
  - FV HR٢ Aplotype (Codon ١٢٩٩) 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 ٥, ٦-١٠, more than ١٠ genes)
  - Hearing Loss Panel
  - HLA (A,B,C, DR) by PCR
  - HLA B٢٧ by PCR
  - HLA B٥ by PCR
  - HLA DQ by PCR
  - HLA DR by PCR
  - Homocysteine Gene (MTHFR – C٦٧٧T & A١٢٩٨c) by PCR
  - Huntigton Disease
  - IGR (idiopathic growth retardation)

    - Intersex
    - Lactose intolerance by PCR
    - MTHFR – C٦٧٧T by PCR (Homocystein Gene)
    - MTHFR – A١٢٩٨C by PCR
    - Myotonic Dystrophy
    - Neonatal Haemoglobinopathies
    - NIPT (Non-invasive Prenatal Testing: ١٣,١٨,٢١,X,Y) by NGS
    - ONCOblot
    - ONCOsure
    - Osteogenesis Imperficia 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 ١a to CD ١٥٤ - 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:**
    - Immunoflurescence study on Tissue
    - Culture- Tissue

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
- **Vaccute:** Vacutainer tube for collection
- **Call:** Call for details/appointment/specific instructions.