



ADVANCED DIAGNOSTIC LABORATORY

IPPT, USM

GENETICS

CYTOGENETICS

- Blood Cytogenetics
- Bone Marrow Cytogenetics

MOLECULAR CYTOGENETICS (FISH)

- Microdeletion Probe
- DiGeorge Syndrome
- Prader-Willi Syndrome
- William Syndrome

MOLECULAR GENETICS

- DNA extraction
- PCR Southeast Asian Ovalocytosis (SAO)
- PCR Sex-determining Region Y (SRY) gene
- Multiplex PCR for Molecular Alpha Thalassaemia

MICROBIOLOGY

BACTERIOLOGY

(Culture & Sensitivity)

Urine, Blood, Stool, CSF, Nasal, Throat swab, Ear swab, Sputum, Eyes swab, Genital swab ; HVS, Vaginal discharge, anal swab, Body Fluid, Pus/ Wound/ Tissue.

MYCOBACTERIOLOGY

AFB Direct Smear (TB screening)

SEROLOGY

VDRL (Syphilis), Dengue, HIV, Hepatitis B Antigen & Antibody, Hepatitis C, Rotavirus.

PARASITOLOGY

Stool Ova & Cyst, Blood Film for Malarial Parasite (BFMP).

MOLECULAR MICROBIOLOGY

SARS-CoV-2 (COVID-19) Rapid Antigen Test, SARS-CoV-2 (COVID-19) RT-PCR, Rapid Molecular Test – ID-Now.

IMMUNOLOGY

TOTAL IGE (SPECIFIC IgE):

Allergen d1 (D.pteronyssinus), Allergen d2 (D. farinae), Allergen d201 (Blomia tropicalis), Allergen E1 (Cat Dander), Allergen E215 (Pigeon Feathers), Allergen F1 (Egg White), Allergen F2 (Milk), Allergen F3 (COD Fish), Allergen F4 (Wheat), Allergen F9 (Rice), Allergen F13 (Peanut), Allergen F14 (Soya Bean), Allergen F23 (Crab), Allergen F24 (Shrimp), Allergen F27 (Beef), Allergen F41 (Salmon), Allergen F58 (Pasific Squid), Allergen F75 (Egg Yolk), Allergen F83 (Chicken Meat), Allergen F93 (Cacau), Allergen F207 (Clam), Allergen F300 (Goat Milk), Allergen F313 (Anchory), Allergen GX2 (Mix Grass Pollen), Allergen I6 (Cockroach), Allergen K82 (Latex), Allergen MX2 (Mix Fungi).

SPECIFIC ANTIBODY RESPONSE (PRE&POST)

Tetanus & Pneumovax

INTEGRATED

CHEMICAL PATHOLOGY

Renal Function Test, Liver Function Test (LFT) & Lipid Profile (LP).

Blood Sugar (BS) (Random/Fasting Blood Sugar, MGTT, HBA1C),

Urine test; Urine Analysis, Microscopic, Drug, Osmolality, Pregnancy, Protein Creatinine Index.

Others; Amylase, Magnesium, CRP, Serum Osmolality, Stool Occult Blood, Blood Gases.

Tumor marker : CEA, CA125, CA15-3, TPSA, AFP, Total BHCG.

HAEMATOLOGY

FBC ; (Hb, TWB, TRBC, PCV, MCV, MCH & MCHC), **FBP** ; (Hb, TWBC, TRBC, PCV,

MCV, MCH, MCHC, DC, Peripheral Blood Film) and **others** ; Routine Coagulation

Test, DIC Screening, D-Dimer, ESR , G6PD

Screening, Haemoglobinopathy, HPLC & Haemoglobin Electrophoresis

HISTOPATHOLOGY/CYTOLOGY

HISTOPATHOLOGY

- Histopathology Examination
- Histochemistry
- Immunohistochemistry

CYTOLOGY

i. Non-Gynae:

- Pericardial Fluid
- Peritoneal Fluid
- Pleural Fluid
- Sputum
- Urine
- Cerebral Spinal Fluid
- Bile Duct Brushings
- Bronchial Brushings
- Esophageal Brushings
- Gastric Brushings

ii. Gynae:

- Pap Smear : Fine Needle Aspiration

TRANSFUSION MEDICINE

ROUTINE

Group & Crossmatch (GXM), Group, Screen and Hold (GSH), ABO and Rh Grouping, Rhesus Phenotyping, Direct Antiglobulin Test, Antibody Screening, Antibody Identification and Investigation of Transfusion Reaction.

SPECIAL TEST

Isohemagglutinin Titer, Antibody titer, Adsorption and Elution Test, Saliva Secretor Status.

OUR OBJECTIVES

To achieve quality services in line with international practice, we committed to:

Providing professional services, ensuring accurate and precise results in accordance with international standard methodologies,

Implementing a quality management system, which is complied to MS ISO 15189 so as to ensure management plans and technical operations are established and controlled,

Ensuring all personnel who are involved in examination activities are familiar with the Laboratory Quality Management System (LQMS), and implement the possible process at all the time, and ensuring continual improvement of its LQMS.



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