4Cyte Pathology

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Tube type and order	Common tests	Instructions
Blood Cultures	**Microbiology:** Septicaemia, Toxaemia, and bacterial culture.	Aerobic (blue cap) bottle MUST be collected first then Anaerobic Lytic (purple cap), Paediatric Collection - Pink cap bottle only. Mix the specimen with gentle agitation by inverting 8-10 times. **Store at room temperature.**
Sodium Citrate (Light Blue)	**Coagulation:** INR, APTT, Coagulation studies, Factor VIII, Lupus anticoagulant, D-Dimer, Protein C+S, AT3.	**Correct volume critical – see marker level on tube.** Mix well by gently inverting 4-5 times after collection.
Plain (Red)	**Special Biochemistry:** Vitamin A, Vit E ,Vit K, some Therapeutic drugs re online manual.	Mix well by gently inverting 5-10 times after collection.
SST (Gold)	**Biochemistry:** Lipids, LFT, EUC, Cardiac Enzymes, Troponin, Lipase, Calcium, Phosphate, Ionised Calcium, Iron studies, Protein Assays, TFT, CRP, B12, Vit D, Endocrinology, Fertility, βHCG, Tumour markers, PSA, Zinc (Zn) and Copper (Cu), Homocysteine. **Serology/Immunology:** Hepatitis, HIV, Viral antibodies, Rubella, Syphilis, ANA, Rheumatoid Factor, Allergy, EPG, RAST.	For Creatinine Clearance or 24hr Urine Electrolytes: Collect SST tube when 24hr urine is submitted. Mix well by gently inverting 5-10 times after collection. **Allow to stand for 30mins** after collection. Centrifuge for 10mins.
Lithium Heparin (Green)	**Biochemistry:** Plasma Metanephrines. **Cytogenetics:** Chromosome Studies.	Mix well by gently inverting 5-10 times after collection.
1 → 2 → 3 → 4 4 QuantiFERON TB tube vials	**Interferon Gamma Testing for tuberculosis:** * First-line Interferon-gamma release assay against tuberculosis-specific antigens, and used for the diagnosis of latent tuberculosis.	Order of collection for QuantiFERON tubes: grey, green, yellow, purple. Must be filled to the black line marked on the tube (1mL). Always collect using a winged infusion set (butterfly).
EDTA (Lavender)	**Haematology:** FBC, ESR, Blood film, Hb, Diff, Platelets, Hb Electrophoresis (EPG), Thick/Thin films. **Flow Cytometry:** Lymphocyte Surface Markers, T&B Cells. **Blood Bank:** Blood Group, Rh and Red Cell Antibodies, Direct Coombs Test. **Biochemistry:** HbA1C **Molecular Genetics:** Haemochromatosis, Factor V Leiden, MTHFR, HLA B27, Coeliac Tissue Typing. Genetic Carrier Screening - Prepair min vol 2mL.	Mix well by gently inverting 5-10 times after collection. Collect dedicated tube for Molecular Genetics. **All Blood Banking Samples:** Collect for Blood Group and Antibody screen. Full patient ID required. Dr/Collector must SIGN tube and PDB declaration on the request form to verify patient details.
PPT EDTA (Pearl)	PTH, ACTH.	Mix well by gently inverting 5-10 times after collection. Centrifuge asap after collection.
Streck tube	NIPT - *Percept.*	Min vol 7ml, invert 10 times immediately after collection. Place in absorbent pouch. Min 10-week gestation.
Flouride Oxalate (Grey)	**Biochemistry:** Glucose, Lactate, GTT.	Mix well by gently inverting 5-10 times after collection.
ACD	HLA DR/DQ Genotype	Mix well by gently inverting 5-10 times after collection.