

The best care for your patients...
Because Life Matters.

LABORATORY SERVICES GUIDE

Tenth Edition
2015



ParkwayHealth™
Laboratory

We understand
that enriching the lives of your patients is your calling.
You are dedicated to delivering your promise to your patients.
For the past 30 years,
we have been partnering you to provide quality patient care.
We will remain committed to supporting you
through reliable and cutting-edge services across our 7 laboratories.
Choose us as your dependable partner in clinical care
today, tomorrow and for a lifetime.

Because Life Matters.

WELCOME NOTE

FROM THE CEO

Thank you for your continued support for Parkway Laboratory Services.

Without your unwavering support, we would not have been able to get to where we are today - a modern and forward-looking, private diagnostic laboratory with one of the broadest spectrum of diagnostic laboratory services in Singapore.

As we grow bigger, we have not forgotten to listen. We took your feedback seriously. Even though we couldn't act immediately on everything we hear, the desire to meet (and exceed) our clients' expectations has provided the motivation to push ourselves to make things work better.



The 2015 Parkway Laboratory Services Guide is an example of this.

Having been a practising doctor previously, I fully appreciate the frustration you face when you are trying to locate a critical piece of information in the Laboratory Services Guide. From the reorganisation of the content to the inclusion of an individual test index, I believe we have [successfully] organized it better so that you can find what you need quickly. For the first time, we have also included in the services guide, additional information that would help you collect and transport specimens optimally. Also look out for our online version of the services guide as we leverage on technology to make this even easier.

This guide is still 'work-in-progress' so keep your feedback coming!

And don't forget to look out for a series of operational improvement efforts that we will be rolling out in phases throughout 2015. It might not 'blow you away' but we hope it would certainly 'draw you in'.

Best wishes to you and your loved ones in 2015!

Dr. Lee Hong Huei

Chief Executive Officer,
Parkway Laboratory Services Ltd

PLS ENQUIRY HOTLINE : 6278 9188				
Key services: • Clinical Laboratory • Histopathology • Genetics • Phlebotomy • Despatch				
	Address	Contact Details	Operating Hours	
			Mon - Fri	Sat
CLIENT SUPPORT	Phlebotomy Services	T: 6278 9188	0830 - 1700	0830 - 1300
	Specimen Collection (Medical Centre)	T: 6278 9188	0830 - 1700	0830 - 1230
	Specimen Collection (Outreach)		0830 - 1630	0830 - 1200
	Supplies	T: 6278 9188 F: 6248 5878	0830 - 1700	0830 - 1200
	Histology Reports/ Frozen Section Appointments	T: 6933 0801 (MEH,MNH,PEH) T: 6470 5758 (GEH)	0830 - 1700	0830 - 1300
Client Billing Enquiries	T: 6248 5835/36 F: 6248 5845	0830 - 1730	0830 - 1300	
OUTPATIENT LABORATORY	Gleneagles Hospital (GEH) 6A Napier Road, Annex Block, #03-33 Singapore 258500	T: 6278 9188 F: 6471 3394	0800 - 1700	0800 - 1300
	Mount Elizabeth Hospital (MEH) 3 Mount Elizabeth, Level 2, Tower B, Singapore 228510	T: 6278 9188 F: 6731 2284	0800 - 1730	0800 - 1330
	Mount Elizabeth Novena Hospital (MNH) 38 Irrawaddy Road, #01-01 Singapore 329563	T: 6278 9188 F: 6933 0538	0830 - 1700	0830 - 1300
	Parkway East Hospital (PEH) 321 Joo Chiat Place, Level 2 Singapore 427990	T: 6340 8692 F: 6345 5053	0830 - 1700	0830 - 1300
OUTPATIENT STAT LABORATORY	Novena Medical Centre (NOL) 10 Sinaran Drive, #08-01 Singapore 307506	T: 6397 6930 F: 6397 6934	0830 - 1700	0830 - 1300
MAIN REFERENCE LABORATORY	Parkway Laboratory Services Ltd (ARC) 28 Ayer Rajah Crescent, #03-08 Singapore 139959	T: 6278 9188 F: 6248 5878	0830 - 1700	0830 - 1300
PATHOLOGY LABORATORY	Cytology/Histology (GEH) 6A Napier Road, Gleneagles Medical Centre Level 2 Singapore 258500	T: 6470 5758	0830 - 1700	0830 - 1300
	Cytology Services (MNH) 38 Irrawaddy Road, #01-01 Singapore 329563	T: 6278 9188	0830 - 1700	0830 - 1300
	Histology Services (MNH) #08-29 to 32 MOB Block, Singapore 329563	T: 6933 0801	0830 - 1700	0830 - 1300
GENETICS LABORATORY	Genetics Services 28 Ayer Rajah Crescent, #03-08 Singapore 139959	T: 6248 5873/74	0830 - 1700	0830 - 1300

Specimens are received during the following outpatient operating hours
Laboratories are closed on Sundays and Public Holidays



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1. ABOUT PARKWAY LABORATORY SERVICES LTD (PLS)



ParkwayHealth™
Laboratory

BECAUSE LIFE MATTERS

Our Team

Our Medical Consultant Team

Dr Anjula Thomas, Medical Director, Consultant Pathologist

Dr Naresh Chachlani, Consultant Pathologist

Dr Fong Chee Meng, Consultant Pathologist

Dr Rashi Agrawal, Consultant Pathologist

Dr Carmen Yu, Consultant Pathologist

Dr Joyce Lim Po I, Consultant Cytogeneticist

Mission Statement

Parkway Laboratory Services (PLS) will continue to be the premier reference laboratory in Singapore by providing high quality, cost efficient clinical and pathology laboratory services.

Goal

To be the service provider of choice to medical professionals and patients by being accurate, on time, every time.

1.1 Our Quality Assurance and Quality Control

• Quality of Our Services

The scope of our services includes specimen handling, sample processing and analysis, reporting of test results, handling and delivery of supplies and test reports/information to our clients. Our internal quality audits, quality assurance and quality control programmes ensure the achievement of our service quality mission.

• Quality of Our Analytical Results

The integrity and reliability of the testing process have direct implication on the quality of analytical results produced. Besides the usual regular preventive and service maintenance on instruments and compliance to instrument calibration protocols, our laboratories also participate in many internal and external quality control programmes to monitor the testing processes.

1.2 Client Support Hotlines and Outpatient Operating Hours

Our Business & Client Support Hotlines



• Call Centre for Parkway Laboratory Services - Enquiries	6278 9188
• For Gleneagles Hospital Lab & Medical Centre Clients	6278 9188
• For Mount Elizabeth Hospital Lab & Medical Centre Clients	6278 9188
• For Mount Elizabeth Novena Hospital Lab & Medical Centre Clients	6278 9188
• For Novena Medical Center Clients	6397 6930
• For Parkway East Hospital Lab & Medical Centre Clients	6340 8692
• For Cytology Services	6278 9188
• For Cytology/Histology (GEH Lab)	6470 5758
• For Genetics Services	6248 5873/74
• For Histology Report/Frozen Section Appointments	6933 0801

Business Development Enquiries

(pls_marketing@parkway.sg)

6278 9188

Client Billing Enquiries

6248 5835/36

Payment

Credit term is 60 days from date of invoice.

Please ensure all cheques are crossed "A/C Payee only" and made payable to Parkway Laboratory Services Ltd.

Please write customer number and invoice number on the reverse side of the cheque.

Our marketing staff are authorised to collect payment on behalf of PLS.

Alternatively, you can mail the cheque directly to:

Parkway Laboratory Services Ltd.
28 Ayer Rajah Crescent, #03-08 S 139959

1.2 Client Support Hotlines and Outpatient Operating Hours (cont'd)

Outpatient Operating Hours

Specimens are received during the following outpatient operating hours:

Laboratories located at:	Mondays to Fridays	Saturdays
Gleneagles Hospital	0800 – 1700	0800 – 1300
Mount Elizabeth Hospital	0800 – 1730	0800 – 1330
Mount Elizabeth Novena Hospital	0830 – 1700	0830 – 1300
Novena Medical Center	0830 – 1700	0830 – 1300
Parkway East Hospital	0830 – 1700	0830 – 1300

Outpatient laboratories are closed on Sundays and Public Holidays.

Outpatient Phlebotomy Services

Phlebotomy services are available during the outpatient operating hours at our laboratories located at the four hospitals as well as Novena Medical Center: Tel: 6278 9188

1.3 Our Service Information

Parkway Laboratory Services Ltd (PLS) has laboratories on the premises of Gleneagles, Mount Elizabeth, Parkway East and Mount Elizabeth Novena, the four private hospitals owned by Parkway Group, a satellite outpatient laboratory located in Novena Medical Center, and a reference laboratory located in Ayer Rajah Crescent, which also houses our headquarters. We serve the needs of inpatients and outpatients at the four hospitals as well as other medical practitioners who operate within and outside the hospitals' medical centres.

We provide quality laboratory services in the following disciplines.

Clinical laboratory services

- Haematology & Immunohaematology
- Biochemistry
- Immunology & Serology
- Hormone
- Therapeutic Drug Monitoring
- Body Fluids, Seminal Fluid, Urine & Stool Analysis
- Microbiology
- Clinical Molecular (PCR Testing) & Specialised Testing

1.3 Our Service Information (cont'd)

Histopathology services

- Cytology
- Histology

Genetics services

- Prenatal Karyotyping
- Perinatal, Paediatric and Adult Karyotyping
- Oncology Karyotyping
- QF - PCR Rapid Aneuploidy Screening
- Non-Invasive Prenatal Screening (NIPS)

1.4 Stat Outpatient Services

We also provide STAT/urgent test services at laboratories located at Gleneagles, Mount Elizabeth, Parkway East and Mount Elizabeth Novena Hospital. A STAT request is reported and can be issued to the waiting patient if it is indicated by the physician in our laboratory request form.

The following STAT tests are available:

FBC

Full Blood Count, venous blood

- White blood cell count
- Differential white cell count
- Red blood cell count
- Haemoglobin
- Haematocrit
- Red cell indices
- Red cell distribution width
- Mean Platelet Volume
- Platelet count

MP

Malaria Parasites, venous blood

PT/INR

Prothrombin Time (with INR), venous blood

PTT

Partial Thromboplastin Time, Activated

RES

Renal Screen, venous blood

- Potassium
- Sodium
- Chloride
- Bicarbonate
- Urea
- Creatinine
- Glucose

1.4 Stat Outpatient Services (cont'd)

CAE	Cardiac Enzymes, venous blood <ul style="list-style-type: none"> • Aspartate Aminotransferase (AST) • Creatine Kinase (CKNAC) • Creatine Kinase-MB • Lactate Dehydrogenase
HSTNT	Troponin T, High Sensitive, venous blood
BIL N	Bilirubin, Neonatal, capillary blood
U FEME	Urinalysis/ Urine FEME, random urine
DEN GM	Dengue Serology
DEN NS1AG	Dengue NS1 Antigen

1.5 Clinical Outpatient Laboratory Reports

Clinical laboratory test reports are usually completed within 24 hours upon receipt of the specimen. The reports are delivered by our despatchers on the next trip to the clinics or within the next working day.

Some tests are not completed within 24 hours. Some are performed only on the scheduled days (refer to section 1.6 Test Schedules). The profile reports comprising these tests will be reported and delivered to the clinics only after all testing is completed. Partial profile reports will be printed only upon specific requests made to our Client Services.

The following profile reports are reported daily and delivered to the clinics within the next working day in general:

- General Screens
- Antenatal
- Other profiles such as:
 - Anaemia
 - Cardiac
 - Lipid
 - Liver
 - Pre-Op
 - Thyroid
 - Work Permit

1.6 External Quality Assurance Programmes

SECTION	PROGRAMME
Haematology Coagulation Point of Care Testing	<ul style="list-style-type: none"> • CAP Surveys • National QAP for ABO/Rh Testing • National QAP for Malaria Parasite Testing • CAP Surveys • CAP Surveys
Biochemistry Point of Care Testing	<ul style="list-style-type: none"> • CAP Surveys • CAP Surveys
Clinical Molecular Immunology & Serology Hormone Therapeutic Drug Monitoring	<ul style="list-style-type: none"> • CAP Surveys • CAP Surveys • National QAP for HIV Testing • National Serology Reference Laboratory, Australia (NRL) • RCPA QAP • CAP Surveys • CAP Surveys
Microbiology	<ul style="list-style-type: none"> • CAP Surveys • National QAP for AFB Testing • RCPA QAP
Body Fluids Seminal Analysis	<ul style="list-style-type: none"> • CAP Surveys • CAP Surveys
Urine & Stool Analysis	<ul style="list-style-type: none"> • CAP Surveys
Cytology	<ul style="list-style-type: none"> • CAP PAP Cytopathology - Conventional • CAP PAP Cytopathology - ThinPrep • CAP NGC Non-Gynecology Cytopathology
Histopathology	<ul style="list-style-type: none"> • CAP PIP Surgical Pathology • CAP HQIP NSH/CAP HistoQIP • CAP MK Immunochemistry
Genetics	<ul style="list-style-type: none"> • HGSA QAP (Cytogenetics) • UK NEGAS EQA (Molecular Genetics)

Abbreviations:

CAP	College of American Pathologists
RCPA	Royal College of Pathologists of Australia
HGSA	Human Genetics Society of Australia
QAP	Quality Assurance Program
UK NEGAS	UK National External Quality Assessment Schemes
EQA	External Quality Assessment
NRL	National Serology Reference Laboratory, Australia (NRL)

1.7 Licenses and Accreditation

Licensure of Ministry of Health, Singapore, under the Private Hospitals and Medical Clinics Act 1980 (Chapter 248).

All our labs are licensed under the Private Hospitals and Medical Clinics Act 1980 (Chapter 248).

Our labs at Gleneagles hospital, Mount Elizabeth hospital, Parkway East hospital and Mount Elizabeth Novena hospital are Joint Commission International (JCI) accredited.

1.8 Test Schedules (Quick List)

Scheduled tests are performed early in the morning and all samples received up to the day before will be processed. Append below is a Quick List for tests that are performed on scheduled days only. We will arrange for alternative days to perform those tests which schedules coincide with public holidays.

TEST	MON	TUE	WED	THU	FRI	SAT
Adrenocorticotrophic Hormone (ACTH)		◆			◆	
Anti Neutrophil Cytoplasmic Antibody (ANCA Elisa)	◆			◆		
Antinuclear Antibody	◆		◆		◆	
Anti-Cardiolipin IgG (ACARG)	◆					
Anti-Cardiolipin IgM (ACARM)	◆					
Anti-Cyclic Citrullinated Peptide (ACCP)		◆			◆	
Anti-DNA (ds-DNA)	◆		◆		◆	
Anti-LA (SSB) Antibody (ANTILA)	◆			◆		
Anti-Mullerian Hormone	◆			◆		
Anti-Myeloperoxidase Antibody (ANTIMPO)	◆			◆		
Anti-Proteinase 3 Antibody (ANTIPR3)	◆			◆		
Anti-Ribonucleoprotein Antibody (ANTIRNP)	◆			◆		
Anti-RO (SSA) Antibody (ANTIRO)	◆			◆		
Anti-SM Antibody (ANTISM)	◆			◆		
Beta CrossLaps			◆			
Beta-2 Microglobulin		◆			◆	
BRAF, Proto-oncogene BRAF	◆			◆		
Calcitonin	◆			◆		
Chlamydia Trachomatis PCR (CT PCR)	◆			◆		
CMV IgM Antibody	◆			◆		
C-Peptide		◆	◆		◆	
Cytomegalovirus DNA Quantitation (CMV DNA)		◆			◆	
DHEASO4	◆			◆		
EBV EA+EBNA-1 IgA	◆		◆		◆	
EGFR, Epidermal growth factor receptor	◆			◆		
Growth Hormone (GH)		◆			◆	
HAV IgM Antibody	◆			◆		
HBV DNA (Quantitative)	◆			◆		
HCV Antigen	◆			◆		
HCV RNA (Quantitative)			◆			

1.8 Test Schedules (Quick List) (cont'd)

TEST	MON	TUE	WED	THU	FRI	SAT
Helicobacter Pylori, IgG Antibody		◆			◆	
Hepatitis B Surface Antigen Quantitative		◆	◆		◆	
Herpes Simplex Type I/II IgG Ab		◆			◆	
Homocysteine		◆			◆	
HPV DNA (Human Papillomavirus DNA)		◆		◆		◆
Human T-Cell Lymphotropic Virus Types I and II Ab (HTLV)	◆			◆		
Immunoglobulin IgE	◆			◆		
Insulin		◆	◆		◆	
Insulin-like Growth Factor-1		◆			◆	
KRAS, Proto-oncogene KRAS	◆			◆		
Measles IgG Test					◆	
Mitochondrial Antibody			◆			
Mumps IgG Test					◆	
Mycobacterium Tuberculosis (MTB PCR)					◆	
Neisseria Gonorrhoeae DNA (GC PCR)	◆			◆		
Osteocalcin, N-MID fragment			◆			
Parathyroid Hormone, Intact (PTH)	◆	◆	◆	◆	◆	
Parietal Cell Antibody			◆			
Protein Electrophoresis				◆		
Quantiferon-TB Gold (QFTB)		◆			◆	
Rubella IgM Antibody	◆			◆		
Sex Hormone Binding Globulin	◆			◆		
Smooth Muscle Antibody			◆			
Squamous Cell Ca Antigen			◆			
Testosterone, Free and Bioavailable (Calculated)	◆			◆		
Toxoplasma IgG Antibody	◆			◆		
Toxoplasma IgM Antibody	◆			◆		
TSH Receptor Antibody (TRAB)			◆			
Varicella-Zoster Virus IgG (VZVG)					◆	

2. SPECIMEN COLLECTION AND HANDLING



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2. Specimen Collection and Handling

2.1 Supplies

Our Client Services supply all specimen collection containers and related supplies that are needed to draw and submit specimens for testing and analysis by Parkway Laboratory Services (PLS). Specimen collection devices supplied by PLS are to be used only for the collection of specimens for processing by PLS laboratories located at Gleneagles Hospital, Mount Elizabeth Hospital, Parkway East Hospital, Mount Elizabeth Novena Hospital, Novena Medical Center and Ayer Rajah Crescent.

For Supplies, please call 6278 9188 or fax to 6248 5878

2.2 Types of Specimen Collection Containers

• Blood Collection Containers – Common Vacutainer Tubes

ADDITIVE	CAP COLOUR	BLOOD VOLUME	SUITABLE FOR
Clot Activator, Plain	RED	6mL	Most chemistry, including drug levels and serological tests that require serum. Also for immuno-haematological tests that require clotted blood such as abnormal blood group antibody tests and cross-matching requests.
K ₂ EDTA	PINK (GXM)	6mL	For cross-matching requests only. After the tube has been filled with blood drawn by vacuum, it should be gently inverted at least 6 times to prevent clotting. Please call laboratory for update.
K ₂ EDTA (Di-Potassium Ethylene Diamine-Tetracetate)	PURPLE	3mL	Most haematological tests, HbA1C, Cyclosporine, Homocysteine, and molecular genetics tests (when using blood DNA). After the tube has been filled with blood drawn by vacuum, it should be gently inverted at least 6 to 10 times to prevent clotting.
Lithium Heparin	GREEN	4mL	Tests requiring plasma or whole blood (such as cytogenetics when using blood DNA) and STAT biochemistry tests such as electrolytes, renal screen, ammonia test. After the tube has been filled with blood drawn by vacuum, it should be inverted gently at least 6 times to prevent clotting.
Sodium Citrate	BLUE	2.7mL	Coagulation studies. The ratio of blood to anticoagulant is critical for valid prothrombin time and activated partial thromboplastin time results. Allow 2.7mL of blood to be drawn by vacuum. This tube should be inverted gently at least 3-4 times in order to prevent clotting. [Must fill up to the mark]
Sodium Fluoride / Potassium Oxalate	GREY	6mL	Glucose tests. After the tube has been filled with blood drawn by vacuum, it should be inverted gently at least 6 times to prevent clotting.
SST II, Clot activator & serum gel separator, Plain	YELLOW	5mL	All tests requiring serum except those few that need red cells as well (such as abnormal blood group antibody screen, cold agglutinins). After centrifugation, the gel forms an effective barrier between the blood clot and the serum.

2.2 Types of Specimen Collection Containers (cont'd)

• Other Specimen Collection Containers

TYPE OF CONTAINERS/DESCRIPTION	COMMENTS
BACTEC MYCO/F LYTIC, Culture Vial 40mL size White-cap (aerobic) Tube content: Supplemented Middlebrook 7H9 & Brain Heart Infusion Broth Blood volume: 1-5mL	For fungus culture of blood and sterile body fluid only. After the bottle has been filled with blood, it should be inverted gently at least 6 times to facilitate mixing and prevent coagulation. Supplied only upon specific request.
BACTEC PEDS PLUS Blood Culture, 40mL size (ARD) Pink-cap (aerobic) Tube content: SPS Blood volume: 1-3mL	For paediatric blood culture only. After the bottle has been filled with blood, it should be inverted gently at least 6 times to facilitate mixing and prevent coagulation. Supplied only upon specific request.
BACTEC PLUS Blood Culture Set, 25mL size (ARD) Blue/Grey-cap BACTEC PLUS (aerobic) & Orange-cap BACTEC PLUS (anaerobic) Tube content: Sodium Polyanethol Sulfonate (SPS) Blood volume: 3-10mL	Specific for blood culture only. After the bottle has been filled with blood, it should be inverted gently at least 6 times to facilitate mixing and prevent coagulation. Both Grey-cap & Orange-cap bottles are to be collected and sent in pairs. Supplied only upon specific request.
CULTURE SWAB with Transport Media Sterile cotton swab attached to plastic applicator stick with transport media	For bacteriological culture from all sites. It contains a special transport media which will maintain micro-organism viability but does not promote growth of micro-organisms. Blue-cap swab is suitable for both aerobic & anaerobic organisms.
DRY SWAB without Transport Media Sterile cotton swab attached to plastic applicator stick	For Chlamydia Trachomatis PCR test.
Sodium Heparin Tube (L.E. TUBE) Green-cap vacutainer tube Tube content: Sodium heparin Blood volume: 8-10mL	For the demonstration of L.E. cells test. After the tube has been filled with blood, it should be inverted gently at least 6 times to prevent clotting.
STOOL CONTAINER Screw cap (brown) plastic container with attached spatula	For collecting stool specimen for routine examination and culture.
URINE CONTAINER, Sterile (UNIVERSAL CONTAINER) Sterile plastic container with screw cap	For routine urinalysis and urine culture. Also suitable for collecting body fluids and sputum for routine examination or culture.

2.2 Types of Specimen Collection Containers (cont'd)

• For Genetics Department

TYPE OF SUPPLIES	COMMENTS
BOTTLE OF TRANSPORT MEDIUM	For Chorionic Villus or Products of Conception QF-PCR
BOTTLE OF TRANSPORT MEDIUM	For Chorionic Villus or Products of Conception Karyotyping
BOTTLE OF TRANSPORT MEDIUM	For Bone Marrow Karyotyping
MOTTLED BLACK/TAN Cell-Free DNA BCT has chemical additives 10mL x 2	Non-invasive fetal aneuploidy screening (NIPS) tests using maternal blood. Avoid possible backflow from the tube. Tube contents should not touch stopper or the end of the needle during the collection procedure. Order of Draw: Perform Cell-Free DNA BCT tubes first. After the tube is filled completely, gently invert 8 to 10 times.
PLAIN STERILE UNIVERSAL BOTTLE	For Amniotic Fluid Karyotyping or QF-PCR
SALIVA KIT WITH PRESERVATIVES	For Personalised Genomics (Pathway Fit)

• Miscellaneous Supplies

TYPE OF SUPPLIES/DESCRIPTION	COMMENTS
CAPILLARY TUBE (Heparinised) Self sealing	For neonatal serum bilirubin test. Collect 2 or 3 capillary tubes (heparinised) of blood.
CONTAINER, with Formalin Clean container (50mL) half-filled with formalin	Supplied for transporting small histopathology specimens.
GLASS SLIDE Rectangular 3"x1" glass slide with frosted end	Supplied for collecting pap smear and cytology smears only. Please write patient's name on the frosted end of slide in pencil.
SLIDE HOLDER (Pap Smear Container) Blue or white plastic holder for 2 slide wells. Supplied with 95% alcohol for fixation of smears.	Supplied for holding cytology and pap smear glass slides only.
SPATULA (Scraper) Wooden stick with paddle	Use to collect material for cytology smears.

2.2 Types of Specimen Collection Containers (cont'd)

• Miscellaneous Supplies (cont'd)

TYPE OF SUPPLIES/DESCRIPTION	COMMENTS
SYRINGES and NEEDLES Disposable syringes & needles	For collecting blood into non-vacutainer tubes, i.e. conventional screw-top containers. Sizes available for syringes: 20mL, 10mL, 5mL & 2.5mL Sizes available for needles: 23G 1", 22G 1½", 21G 1½"
VACUTAINER NEEDLE Green 21G vacutainer needle, regular size	Disposable vacutainer needle to be used together with vacutainer needle holder for drawing blood specimen into vacutainer tubes.
VACUTAINER NEEDLE HOLDER White hollow plastic tube	Used to hold vacutainer needle and the vacutainer tube while collecting blood specimen.
OTHER SUPPLIES , include non-vacutainer collection tubes, thin prep vial with cytobrush etc.	Please call 6278 9188 to request for other supplies.

2.3 General Specimen Preparation

Collect and deliver specimens for testing into the correct collection containers.

Follow any specific instruction as indicated in the sample types of various profile screening listing and test listing.

Clinic name and/or doctor's name must be clearly indicated on the lab request form.

All specimens submitted to the laboratory must be properly identified by indicating 2 unique patient identifiers on every specimen tube, slide or specimen container submitted to avoid rejection. The acceptable identifiers are patient's name and one of the following:

- NRIC/Passport Number
- Date of Birth or
- Assigned identification number (ie patient number or case number)

Please PRINT patient's particulars and tests to be ordered clearly on the laboratory request form to facilitate the ordering and testing processes by the laboratory.

All specimens should be properly sealed (e.g. capped firmly or screwed tightly) before transportation to the laboratory. Do not submit specimens in syringes, regardless of whether the needles are attached or not.

Place the request form and specimen containers, from a single patient, in an individual specimen. Do not combine different patients' samples in the same bag.

2.3 General Specimen Preparation (cont'd)

<p>Note (1):</p>	<p>For Anti-HIV1/HIV2 (Human Immunodeficiency Virus) test, please indicate patient's Nationality, NRIC Number (for resident) or Passport Number (for non-resident) on the request form.</p> <p>Please note that a minimum of 5mL plain/SST blood is required for HIV testing.</p> <p>If the patient is a foreign national, must indicate whether the patient (a) is a Singapore permanent resident; OR (b) holds a work permit, long term social visit pass or a student pass; OR (c) is applying for a work permit, long term social visit pass, student pass or permanent residency</p> <p>Equivocal/Reactive results must be confirmed by the National HIV Reference Laboratory (subject to additional charges) as stipulated by MOH regulations.</p>
<p>Note (2):</p>	<p>For Malaria Parasites (MP) test, please indicate patient's Nationality on the request form as stipulated by Ministry of Health (MOH).</p>
<p>Note (3):</p>	<p>For Dengue NS1 Antigen, or Dengue Blot (IgG & IgM Antibody) test, please indicate patient's address on the request form as stipulated by National Environment Agency.</p>

2.4 General Sample Storage

All samples collected or obtained, except for a few that require other specific instructions as indicated in the sample types, are left at room temperature in the clinics while awaiting for pick-up by the despatchers of Parkway Laboratory Services. For specimen pick-up services, please call our Client Support hotline at 6278 9188.

Do not keep the samples overnight in the clinics as these samples may give erroneous and misleading analytical results to some tests reported. Examples are falsely elevated potassium level, falsely low glucose result, etc.

Please note that blood/urine specimens CANNOT be kept after 12 hours for tests such as Acid Phosphatase, Calcium, CMV DNA, Electrolytes, Glucose, HCV RNAQ, Phosphate, Urine Culture and Urine FEME.

2.5 Collection and Transportation of Microbiology Specimens

All culture samples (except stool culture) must be collected aseptically in the correct sterile containers provided by the laboratory. Please refer to sample types of the test listing for the specific instructions indicated.

After collection, all specimens must be transported to the laboratory as soon as possible. Contact Specimen Collection hotline of Parkway Laboratory Services for the pick-up services. All specimens submitted to the laboratory must be properly identified by 2 unique patient identifiers. Please print patient's name and one other identifier on each sample container. The acceptable identifiers are patient's name and one of the following:

- NRIC/Passport Number
- Date of birth or
- An assigned identification number (ie patient number or case number)

Fill up the request form with patient's particulars and indicate the test to be ordered as well as the source of specimen obtained clearly to facilitate the ordering and testing processes at the laboratory.

Culture specimens should be obtained prior to the administration of antibiotics. Otherwise, indicate the name of antibiotic already administered/to be administered on the request form when requesting for culture.

Collection containers must be closed tightly to prevent leaking of sample during transportation to the laboratory.

Do not use expired collection containers or transport media for specimen collection. Contact Client Services of Parkway Laboratory Services for the exchange and/or replacement of containers and tubes, one month before the expiry date.

2.6 Tips Regarding Sample Collection

• Prevention of Haemolysis

Allow alcohol on venepuncture site to dry before inserting needle into the vein.

A 21-gauge needle (dark green holder) is recommended for collection of blood using non-vacutainer tubes. There is a greater likelihood of haemolysis with smaller gauge needles.

During venepuncture for collection of blood using non-vacutainer tubes, the plunger of the syringe should be drawn back slowly and the blood should flow freely.

2.6 Tips Regarding Sample Collection (cont'd)

After venepuncture for collection of blood using non-vacutainer tubes, remove the needle before allocating blood into the blood tubes and expel blood gently into the correct collection container.

After collecting blood into the blood tube containing anticoagulant, immediately invert the capped blood tube gently for several times to allow blood mixing with anticoagulant thoroughly to prevent clotting. Do not shake the blood tubes vigorously as this may cause haemolysis.

• Collection of Urine for Urine Culture

Instruct patient to clean the genital area first. Use clean water for cleansing and do not use soap or disinfectants.

Instruct patient to pass the first portion of urine away and collect on the **midstream** (mid-portion) urine into a sterile urine container provided by the laboratory.

Arrange for the urine sample to be sent to the laboratory as soon as possible.

• Collection of 24-hour Urine

Test results for 24-hour urine analysis are based on the total volume in a 24-hour period. See below for a good collection regime.

Day 1: Patient is to empty bladder completely at a designated time (e.g. 8am). This specimen is discarded and the date and time are noted.

All subsequent voided urine is collected in a 24-hour urine container (obtainable from the laboratory) throughout the remaining of the day and night within the 24-hours.

Day 2: Patient is to empty bladder at the same designated time on day 2 as noted on day 1 (e.g. 8am). This urine specimen is saved and collected together in the 24-hour urine container.

Stop the urine collection and label the 24-hour specimen container with patient's name, NRIC (or Passport) number, date/time collection begins and date/time collection ends.

Normal fluid intake is encouraged during the 24-hour urine collection period. Dietary restrictions are required for some procedures. Please confirm with the laboratory.

Creatinine clearance test requires an estimate of body surface area. Thus patient's height and weight must be indicated.

2.6 Tips Regarding Sample Collection (cont'd)

• Collection of Specimen for Parasites

Stool Specimen

Stool specimens should remain at room temperature after collection in a clean or sterile container. When the specimen is to be examined for amoebae, arrange it to be sent to the laboratory immediately. Avoid contamination with water or urine.

Screening of parasites e.g. Malaria, Filariasis, etc in blood and stool specimen

Examination of multiple specimens, e.g. 3 specimens, for the same patient during a period of 1 week may be necessary to coincide with the varying cyclical production of the diagnostic stages of the causative organism. Please indicate clearly the specimen number collected (e.g. specimen 1, specimen 2) and the date of specimen collection on the container and request form.

2.7 Collection and Transportation of Genetics Specimens

All culture samples must be collected aseptically in the appropriate sterile containers. Please refer to the listed sample types on Section 2.2 Types of Specimen Collection Containers for Genetics Department and Section 8.1 for specific instructions on handling Genetics specimens.

After collection, all specimens must be transported to the laboratory as soon as possible. Please contact Specimen Collection hotline of Parkway Laboratory Services Ltd (Despatch: 62485800; Call Centre: 62789188) for the pick-up service. Kindly avoid collecting certain specimens on Saturdays as they may not reach the laboratory in time to be processed on the same day.

2.8 Special Sample Collection Conditions for Phlebotomy Services at Medical Centre

TEST PROCEDURE	TEST REQUIREMENTS	MEDICAL CENTRE MUST:
<p>ACTH (Adrenocorticotrophic Hormone)</p>	<p>1. Prechilled EDTA sample tube 2. Sample transported in ICE</p>	<p>1. Have a refrigerator to store sample tube 2. Have ice available in the clinic 3. Send the sample to the lab IMMEDIATELY</p>

2.8 Special Sample Collection Conditions for Phlebotomy Services at Medical Centre (cont'd)

TEST PROCEDURE	TEST REQUIREMENTS	MEDICAL CENTRE MUST:
Blood Culture	Must be performed under ASEPTIC technique Must have: 1. Dressing Set 2. Hexodane 2% 3. Wingset Needles 4. Blood culture bottles (Aerobic and Anaerobic) 5. Sterile gloves	1. Meet all the special requirements (items 1-5) including the ASEPTIC technique 2. Have a designated room with a proper table and chair for sample drawing 3. Have a wash sink to perform hand hygiene
GXM (Group & Crossmatch)	1. Pre-admitted patient (MRO number must be present)	1. Ensure patient pre-admission is done first
Homocysteine	1. EDTA tube transported in ICE	1. Have ice available in the clinic 2. Send sample to the lab IMMEDIATELY
iPTH (Parathyroid Hormone)	1. Plain tube transported in ICE	1. Have ice available in the clinic 2. Send sample to the lab IMMEDIATELY
TB Spot	1. Lithium Heparin tube (3x) 2. Special transport arrangement Note: Test Schedule: Monday- Thursday (except on eve of Public Holidays) Specimen must reach the lab between 8 am to 11 am	1. Meet all special requirements (items 1-2)

Note:

Due to specific timing requirements, collection of GTT samples by phlebotomist will only be available at the outpatient lab.

3. INDIVIDUAL TEST INDEX



ParkwayHealth™
Laboratory

BECAUSE LIFE MATTERS

3. Individual Test Index

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4. GENERAL SCREENS



ParkwayHealth™
Laboratory

BECAUSE LIFE MATTERS

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4. General Screens

General Screen Summary Table

Profile Code	GBS	GFU	GSA	GSA1	GSB1	GSB2	GSC2	GSD2	GSE2
Page	40	41	42	43	44	45	46	47	48
Biochemistry Tests									
Renal (Kidney) Profile									
• Potassium		◆					◆	◆	◆
• Sodium		◆					◆	◆	◆
• Chloride		◆					◆	◆	◆
• Bicarbonate		◆					◆	◆	◆
• Urea	◆	◆	◆	◆	◆	◆	◆	◆	◆
• Creatinine	◆	◆	◆	◆	◆	◆	◆	◆	◆
Endocrine (Gland) Function									
• Glucose	◆	◆	◆	◆	◆	◆	◆	◆	◆
Bone/ Joint Profile									
• Calcium	◆					◆	◆	◆	◆
• Phosphate						◆	◆	◆	◆
• Uric Acid	◆	◆	◆	◆	◆	◆	◆	◆	◆
Liver Profile									
• Protein, Total		◆	◆	◆	◆	◆	◆	◆	◆
• Albumin		◆	◆	◆	◆	◆	◆	◆	◆
• Globulin		◆	◆	◆	◆	◆	◆	◆	◆
• A/G Ratio		◆	◆	◆	◆	◆	◆	◆	◆
• Bilirubin, Total		◆	◆	◆	◆	◆	◆	◆	◆
• Alkaline Phosphatase		◆	◆	◆	◆	◆	◆	◆	◆
• AST	◆	◆	◆	◆	◆	◆	◆	◆	◆
• ALT	◆	◆	◆	◆	◆	◆	◆	◆	◆
• GGT	◆	◆			◆	◆	◆	◆	◆
Lipid (Fat) Profile									
• Cholesterol, Total	◆		◆	◆	◆	◆	◆	◆	◆
• Triglycerides	◆		◆	◆	◆	◆	◆	◆	◆
• Cholesterol, HDL	◆		◆		◆	◆	◆	◆	◆
• Cholesterol, LDL	◆		◆		◆	◆	◆	◆	◆
• Cho ₂ /HDL Ratio	◆		◆		◆	◆	◆	◆	◆

General Screen Summary Table (cont'd)

Profile Code	GBS	GFU	GSA	GSA1	GSB1	GSB2	GSC2	GSD2	GSE2
Page	40	41	42	43	44	45	46	47	48
Serology Tests									
• Syphilis TP Antibody (Syphilis RPR & Titre if reactive)			◆	◆	◆	◆	◆	◆	◆
• TPPA (if Syphilis TP Antibody is reactive)			◆	◆	◆	◆	◆	◆	◆
• RA Factor									◆
Immunology Tests									
Thyroid Studies									
• FRT4					◆	◆	◆	◆	◆
• TSH3					◆	◆	◆	◆	◆
Tumour Marker Studies									
• Alpha Fetoprotein							◆	◆	◆
• CEA								◆	◆
Viral Studies									
• HBsAg							◆	◆	◆
• HBsAb							◆	◆	◆
• Anti-HAV Total									◆
Haematology Tests									
• Haemogram	◆	◆	◆	◆	◆	◆	◆	◆	◆
• Differential Count	◆	◆	◆	◆	◆	◆	◆	◆	◆
• Peripheral Blood Film			◆	◆	◆	◆	◆	◆	◆
• ESR						◆	◆	◆	◆
Urine Test									
• Urine FEME			◆	◆	◆	◆	◆	◆	◆
Stool Test									
• OB									◆
Samples required									
SST Blood	◆	◆	◆	◆	◆	◆	◆	◆	◆
EDTA Blood	◆	◆	◆	◆	◆	◆	◆	◆	◆
FLUORIDE Blood	◆	◆	◆	◆	◆	◆	◆	◆	◆
Urine			◆	◆	◆	◆	◆	◆	◆
Stool									◆

General Screen Summary Table (cont'd)

Profile Code	GSP1	GSP2	GSP3	GSP4 F / GSP4 M	GSP5 F / GSP5 M	GSP6 F / GSP6 M
Page	49	50	51	52	53	54
Biochemistry Tests						
Renal (Kidney) Profile						
• Potassium		◆	◆	◆	◆	◆
• Sodium		◆	◆	◆	◆	◆
• Chloride		◆	◆	◆	◆	◆
• Bicarbonate		◆	◆	◆	◆	◆
• Urea	◆	◆	◆	◆	◆	◆
• Creatinine	◆	◆	◆	◆	◆	◆
Endocrine (Gland) Function						
• Glucose	◆	◆	◆	◆	◆	◆
Bone/Joint Profile						
• Calcium	◆	◆	◆	◆	◆	◆
• Phosphate	◆	◆	◆	◆	◆	◆
• Uric Acid	◆	◆	◆	◆	◆	◆
Liver Profile						
• Protein, Total	◆	◆	◆	◆	◆	◆
• Albumin	◆	◆	◆	◆	◆	◆
• Globulin	◆	◆	◆	◆	◆	◆
• A/G Ratio	◆	◆	◆	◆	◆	◆
• Bilirubin, Total	◆	◆	◆	◆	◆	◆
• Alkaline Phosphatase	◆	◆	◆	◆	◆	◆
• AST	◆	◆	◆	◆	◆	◆
• ALT	◆	◆	◆	◆	◆	◆
• GGT	◆	◆	◆	◆	◆	◆
Lipid (Fat) Profile						
• Cholesterol, Total	◆	◆	◆	◆	◆	◆
• Triglycerides	◆	◆	◆	◆	◆	◆
• Cholesterol, HDL	◆	◆	◆	◆	◆	◆
• Cholesterol, LDL	◆	◆	◆	◆	◆	◆
• Cho/HDL Ratio	◆	◆	◆	◆	◆	◆

General Screen Summary Table (cont'd)

Profile Code	GSP1	GSP2	GSP3	GSP4 F / GSP4 M	GSP5 F / GSP5 M	GSP6 F / GSP6 M
Page	49	50	51	52	53	54
Serology Tests						
• Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	◆	◆	◆	◆	◆	◆
• TPPA (if Syphilis TP Antibody is reactive)	◆	◆	◆	◆	◆	◆
• C-Reactive Protein	◆	◆	◆	◆	◆	◆
• RA Factor			◆	◆	◆	◆
Immunology Tests						
Thyroid Studies						
• FRT4	◆	◆	◆	◆	◆	◆
• TSH3			◆	◆	◆	◆
Tumour Marker Studies						
• Alpha Fetoprotein		◆	◆	◆	◆	◆
• CEA			◆	◆	◆	◆
• EBV EA+EBNA-1IgA						◆
• CA 19.9					◆	◆
• CA 125 (for female)				◆	◆	◆
• PSA (for male)						
Viral Studies						
• HBsAg	◆	◆	◆	◆	◆	◆
• HBsAb	◆	◆	◆	◆	◆	◆
• Anti-HAV Total			◆	◆	◆	◆
Haematology Tests						
• Haemogram	◆	◆	◆	◆	◆	◆
• Differential Count	◆	◆	◆	◆	◆	◆
Urine Test						
• Urine FEME	◆	◆	◆	◆	◆	◆
• Microalbumin/Creatinine Ratio, Urine			◆	◆	◆	◆
Stool Test						
• OB					◆	◆
Samples required						
SST Blood	◆	◆	◆	◆	◆	◆
EDTA Blood	◆	◆	◆	◆	◆	◆
FLUORIDE Blood	◆	◆	◆	◆	◆	◆
Urine	◆	◆	◆	◆	◆	◆
Stool					◆	◆

General Basic Screen

Profile code: **GBS**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
3mL Purple-top EDTA Blood
6mL Grey-top FLUORIDE Blood (for Glucose test)

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none">1. Urea2. Creatinine3. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none">4. Glucose <p>Bone/ Joint Profile</p> <ol style="list-style-type: none">5. Calcium6. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none">7. Aspartate Aminotransferase (AST)8. Alanine Aminotransferase (ALT)9. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none">10. Cholesterol, Total11. Triglycerides12. Cholesterol, HDL13. Cholesterol, LDL14. Cho/HDL Ratio	<p>Haematology tests:</p> <ol style="list-style-type: none">15. Haemogram<ul style="list-style-type: none">- Haemoglobin- Red Blood Cell Count- Packed Cell Volume (HCT)- Red Cell Indices (MCV, MCH, MCHC)- Red Cell Distribution Width (RDW)- Mean Platelet Volume (MPV)- Platelet Count- White Blood Cell Count16. Differential Count
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General Follow-Up Screen

Profile code: **GFU**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Potassium 2. Sodium 3. Chloride 4. Bicarbonate 5. Urea 6. Creatinine 7. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 8. Glucose <p>Bone/Joint Profile</p> <ol style="list-style-type: none"> 9. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 10. Protein, Total 11. Albumin 12. Globulin 13. A/G Ratio 14. Bilirubin, Total 15. Alkaline Phosphatase 16. Aspartate Aminotransferase (AST) 17. Alanine Aminotransferase (ALT) 18. Gamma-Glutamyltransferase (GGT) 	<p>Haematology tests:</p> <ol style="list-style-type: none"> 19. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 20. Differential Count
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General Screen A

Profile code: **GSA**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
3mL Purple-top EDTA Blood
6mL Grey-top FLUORIDE Blood (for Glucose test)
20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none">1. Urea2. Creatinine3. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none">4. Glucose <p>Bone/ Joint Profile</p> <ol style="list-style-type: none">5. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none">6. Protein, Total7. Albumin8. Globulin9. A/G Ratio10. Bilirubin, Total11. Alkaline Phosphatase12. Aspartate Aminotransferase (AST)13. Alanine Aminotransferase (ALT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none">14. Cholesterol, Total15. Triglycerides16. Cholesterol, HDL17. Cholesterol, LDL18. Cho/HDL Ratio	<p>Serology tests:</p> <ol style="list-style-type: none">19. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)20. TPPA (if Syphilis TP Antibody is reactive) <p>Haematology tests:</p> <ol style="list-style-type: none">21. Haemogram<ul style="list-style-type: none">- Haemoglobin- Red Blood Cell Count- Packed Cell Volume (HCT)- Red Cell Indices (MCV, MCH, MCHC)- Red Cell Distribution Width (RDW)- Mean Platelet Volume (MPV)- Platelet Count- White Blood Cell Count22. Differential Count23. Peripheral Blood Film <p>Urine test:</p> <ol style="list-style-type: none">24. Urine FEME
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General Screen A1

Profile code: **GSA1**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Urea 2. Creatinine 3. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 4. Glucose <p>Bone/Joint Profile</p> <ol style="list-style-type: none"> 5. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 6. Protein, Total 7. Albumin 8. Globulin 9. A/G Ratio 10. Bilirubin, Total 11. Alkaline Phosphatase 12. Aspartate Aminotransferase (AST) 13. Alanine Aminotransferase (ALT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 14. Cholesterol, Total 15. Triglycerides 	<p>Serology tests:</p> <ol style="list-style-type: none"> 16. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 17. TPPA (if Syphilis TP Antibody is reactive) <p>Haematology tests:</p> <ol style="list-style-type: none"> 18. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 19. Differential Count 20. Peripheral Blood Film <p>Urine test:</p> <ol style="list-style-type: none"> 21. Urine FEME
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General Screen B1

Profile code: **GSB1**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Urea 2. Creatinine 3. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 4. Glucose <p>Bone/ Joint Profile</p> <ol style="list-style-type: none"> 5. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 6. Protein, Total 7. Albumin 8. Globulin 9. A/G Ratio 10. Bilirubin, Total 11. Alkaline Phosphatase 12. Aspartate Aminotransferase (AST) 13. Alanine Aminotransferase (ALT) 14. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 15. Cholesterol, Total 16. Triglycerides 17. Cholesterol, HDL 18. Cholesterol, LDL 19. Cho/HDL Ratio 	<p>Serology tests:</p> <ol style="list-style-type: none"> 20. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 21. TPPA (if Syphilis TP Antibody is reactive) <p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 22. Thyroxine, Free (FRT4) 23. Thyroid Stimulating Hormone (TSH3) <p>Haematology tests:</p> <ol style="list-style-type: none"> 24. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 25. Differential Count 26. Peripheral Blood Film <p>Urine test:</p> <ol style="list-style-type: none"> 27. Urine FEME
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General Screen B2

Profile code: **GSB2**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Urea 2. Creatinine 3. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 4. Glucose <p>Bone/Joint Profile</p> <ol style="list-style-type: none"> 5. Calcium 6. Phosphate 7. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 8. Protein, Total 9. Albumin 10. Globulin 11. A/G Ratio 12. Bilirubin, Total 13. Alkaline Phosphatase 14. Aspartate Aminotransferase (AST) 15. Alanine Aminotransferase (ALT) 16. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 17. Cholesterol, Total 18. Triglycerides 19. Cholesterol, HDL 20. Cholesterol, LDL 21. Cho/HDL Ratio 	<p>Serology tests:</p> <ol style="list-style-type: none"> 22. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 23. TPPA (if Syphilis TP Antibody is reactive) <p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 24. Thyroxine, Free (FRT4) 25. Thyroid Stimulating Hormone (TSH3) <p>Haematology tests:</p> <ol style="list-style-type: none"> 26. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 27. Differential Count 28. Peripheral Blood Film 29. Erythrocyte Sedimentation Rate (ESR) <p>Urine test:</p> <ol style="list-style-type: none"> 30. Urine FEME
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General Screen C2

Profile code: **GSC2**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Potassium 2. Sodium 3. Chloride 4. Bicarbonate 5. Urea 6. Creatinine 7. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 8. Glucose <p>Bone/ Joint Profile</p> <ol style="list-style-type: none"> 9. Calcium 10. Phosphate 11. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 12. Protein, Total 13. Albumin 14. Globulin 15. A/G Ratio 16. Bilirubin, Total 17. Alkaline Phosphatase 18. Aspartate Aminotransferase (AST) 19. Alanine Aminotransferase (ALT) 20. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 21. Cholesterol, Total 22. Triglycerides 23. Cholesterol, HDL 24. Cholesterol, LDL 25. Cho/HDL Ratio 	<p>Serology tests:</p> <ol style="list-style-type: none"> 26. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 27. TPPA (if Syphilis TP Antibody is reactive) <p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 28. Thyroxine, Free (FRT4) 29. Thyroid Stimulating Hormone (TSH3) <p>Tumour Marker Studies</p> <ol style="list-style-type: none"> 30. Alpha Fetoprotein <p>Viral Studies</p> <ol style="list-style-type: none"> 31. Hepatitis B Surface Antigen 32. Hepatitis B Surface Antibody <p>Haematology tests:</p> <ol style="list-style-type: none"> 33. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 34. Differential Count 35. Peripheral Blood Film 36. Erythrocyte Sedimentation Rate (ESR) <p>Urine test:</p> <ol style="list-style-type: none"> 37. Urine FEME
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General Screen D2

Profile code: **GSD2**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Potassium 2. Sodium 3. Chloride 4. Bicarbonate 5. Urea 6. Creatinine 7. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 8. Glucose <p>Bone/Joint Profile</p> <ol style="list-style-type: none"> 9. Calcium 10. Phosphate 11. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 12. Protein, Total 13. Albumin 14. Globulin 15. A/G Ratio 16. Bilirubin, Total 17. Alkaline Phosphatase 18. Aspartate Aminotransferase (AST) 19. Alanine Aminotransferase (ALT) 20. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 21. Cholesterol, Total 22. Triglycerides 23. Cholesterol, HDL 24. Cholesterol, LDL 25. Cho/HDL Ratio 	<p>Serology tests:</p> <ol style="list-style-type: none"> 26. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 27. TPPA (if Syphilis TP Antibody is reactive) <p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 28. Thyroxine, Free (FRT4) 29. Thyroid Stimulating Hormone (TSH3) <p>Tumour Marker Studies</p> <ol style="list-style-type: none"> 30. Alpha Fetoprotein 31. Carcinoembryonic Antigen (CEA) <p>Viral Studies</p> <ol style="list-style-type: none"> 32. Hepatitis B Surface Antigen 33. Hepatitis B Surface Antibody <p>Haematology tests:</p> <ol style="list-style-type: none"> 34. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 35. Differential Count 36. Peripheral Blood Film 37. Erythrocyte Sedimentation Rate (ESR) <p>Urine test:</p> <ol style="list-style-type: none"> 38. Urine FEME
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General Screen E2

Profile code: **GSE2**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine
 Fresh Stool

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Potassium 2. Sodium 3. Chloride 4. Bicarbonate 5. Urea 6. Creatinine 7. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 8. Glucose <p>Bone/Joint Profile</p> <ol style="list-style-type: none"> 9. Calcium 10. Phosphate 11. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 12. Protein, Total 13. Albumin 14. Globulin 15. A/G Ratio 16. Bilirubin, Total 17. Alkaline Phosphatase 18. Aspartate Aminotransferase (AST) 19. Alanine Aminotransferase (ALT) 20. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 21. Cholesterol, Total 22. Triglycerides 23. Cholesterol, HDL 24. Cholesterol, LDL 25. Cho/HDL Ratio <p>Serology tests:</p> <ol style="list-style-type: none"> 26. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 27. TPPA (if Syphilis TP Antibody is reactive) 28. Rheumatoid Factor 	<p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 29. Thyroxine, Free (FRT4) 30. Thyroid Stimulating Hormone (TSH3) <p>Tumour Marker Studies</p> <ol style="list-style-type: none"> 31. Alpha Fetoprotein 32. Carcinoembryonic Antigen (CEA) <p>Viral Studies</p> <ol style="list-style-type: none"> 33. Hepatitis B Surface Antigen 34. Hepatitis B Surface Antibody 35. Hepatitis A Total Antibody (Anti-HAV Total) <p>Haematology tests:</p> <ol style="list-style-type: none"> 36. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 37. Differential Count 38. Peripheral Blood Film 39. Erythrocyte Sedimentation Rate (ESR) <p>Urine test:</p> <ol style="list-style-type: none"> 40. Urine FEME <p>Stool test:</p> <ol style="list-style-type: none"> 41. Stool Occult Blood
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General Screen P1

Profile code: **GSP1**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Urea 2. Creatinine 3. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 4. Glucose <p>Bone/Joint Profile</p> <ol style="list-style-type: none"> 5. Calcium 6. Phosphate 7. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 8. Protein, Total 9. Albumin 10. Globulin 11. A/G Ratio 12. Bilirubin, Total 13. Alkaline Phosphatase 14. Aspartate Aminotransferase (AST) 15. Alanine Aminotransferase (ALT) 16. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 17. Cholesterol, Total 18. Triglycerides 19. Cholesterol, HDL 20. Cholesterol, LDL 21. Cho/HDL Ratio 	<p>Serology tests:</p> <ol style="list-style-type: none"> 22. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 23. TPPA (if Syphilis TP Antibody is reactive) 24. C-Reactive Protein <p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 25. Thyroxine, Free (FRT4) <p>Viral Studies</p> <ol style="list-style-type: none"> 26. Hepatitis B Surface Antigen 27. Hepatitis B Surface Antibody <p>Haematology tests:</p> <ol style="list-style-type: none"> 28. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 29. Differential Count <p>Urine test:</p> <ol style="list-style-type: none"> 30. Urine FEME
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General Screen P2

Profile code: **GSP2**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Potassium 2. Sodium 3. Chloride 4. Bicarbonate 5. Urea 6. Creatinine 7. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 8. Glucose <p>Bone/ Joint Profile</p> <ol style="list-style-type: none"> 9. Calcium 10. Phosphate 11. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 12. Protein, Total 13. Albumin 14. Globulin 15. A/G Ratio 16. Bilirubin, Total 17. Alkaline Phosphatase 18. Aspartate Aminotransferase (AST) 19. Alanine Aminotransferase (ALT) 20. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 21. Cholesterol, Total 22. Triglycerides 23. Cholesterol, HDL 24. Cholesterol, LDL 25. Cho/HDL Ratio 	<p>Serology tests:</p> <ol style="list-style-type: none"> 26. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 27. TPPA (if Syphilis TP Antibody is reactive) 28. C-Reactive Protein <p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 29. Thyroxine, Free (FRT4) <p>Tumour Marker Studies</p> <ol style="list-style-type: none"> 30. Alpha Fetoprotein <p>Viral Studies</p> <ol style="list-style-type: none"> 31. Hepatitis B Surface Antigen 32. Hepatitis B Surface Antibody <p>Haematology tests:</p> <ol style="list-style-type: none"> 33. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 34. Differential Count <p>Urine test:</p> <ol style="list-style-type: none"> 35. Urine FEME
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General Screen P3

Profile code: **GSP3**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Potassium 2. Sodium 3. Chloride 4. Bicarbonate 5. Urea 6. Creatinine 7. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 8. Glucose <p>Bone/Joint Profile</p> <ol style="list-style-type: none"> 9. Calcium 10. Phosphate 11. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 12. Protein, Total 13. Albumin 14. Globulin 15. A/G Ratio 16. Bilirubin, Total 17. Alkaline Phosphatase 18. Aspartate Aminotransferase (AST) 19. Alanine Aminotransferase (ALT) 20. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 21. Cholesterol, Total 22. Triglycerides 23. Cholesterol, HDL 24. Cholesterol, LDL 25. Cho/HDL Ratio 	<p>Serology tests:</p> <ol style="list-style-type: none"> 26. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 27. TPPA (if Syphilis TP Antibody is reactive) 28. C-Reactive Protein 29. Rheumatoid Factor <p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 30. Thyroxine, Free (FRT4) 31. Thyroid Stimulating Hormone (TSH3) <p>Tumour Marker Studies</p> <ol style="list-style-type: none"> 32. Alpha Fetoprotein 33. Carcinoembryonic Antigen (CEA) <p>Viral Studies</p> <ol style="list-style-type: none"> 34. Hepatitis B Surface Antigen 35. Hepatitis B Surface Antibody 36. Hepatitis A Total Antibody (Anti-HAV Total) <p>Haematology tests:</p> <ol style="list-style-type: none"> 37. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 38. Differential Count <p>Urine test:</p> <ol style="list-style-type: none"> 39. Urine FEME 40. Microalbumin/Creatinine Ratio, Urine
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General Screen P4

Profile code: **GSP4 F General Screening Profile GSP4 (Female)**
GSP4 M General Screening Profile GSP4 (Male)

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Potassium 2. Sodium 3. Chloride 4. Bicarbonate 5. Urea 6. Creatinine 7. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 8. Glucose <p>Bone/ Joint Profile</p> <ol style="list-style-type: none"> 9. Calcium 10. Phosphate 11. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 12. Protein, Total 13. Albumin 14. Globulin 15. A/G Ratio 16. Bilirubin, Total 17. Alkaline Phosphatase 18. Aspartate Aminotransferase (AST) 19. Alanine Aminotransferase (ALT) 20. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 21. Cholesterol, Total 22. Triglycerides 23. Cholesterol, HDL 24. Cholesterol, LDL 25. Cho/HDL Ratio <p>Serology tests:</p> <ol style="list-style-type: none"> 26. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 27. TPPA (if Syphilis TP Antibody is reactive) 28. C-Reactive Protein 29. Rheumatoid Factor 	<p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 30. Thyroxine, Free (FRT4) 31. Thyroid Stimulating Hormone (TSH3) <p>Tumour Marker Studies</p> <ol style="list-style-type: none"> 32. Alpha Fetoprotein 33. Carcinoembryonic Antigen (CEA) 34. CA 125 (for female) Prostate Specific Antigen, Total (for male) <p>Viral Studies</p> <ol style="list-style-type: none"> 35. Hepatitis B Surface Antigen 36. Hepatitis B Surface Antibody 37. Hepatitis A Total Antibody (Anti-HAV Total) <p>Haematology tests:</p> <ol style="list-style-type: none"> 38. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 39. Differential Count <p>Urine test:</p> <ol style="list-style-type: none"> 40. Urine FEME 41. Microalbumin/Creatinine Ratio, Urine
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General Screen P5

Profile code: **GSP5 F General Screening Profile GSP5 (Female)**
GSP5 M General Screening Profile GSP5 (Male)

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine
 Fresh Stool

Turnaround Time: One working day

<p>Biochemistry tests:</p> <p>Renal [Kidney] Profile</p> <ol style="list-style-type: none"> 1. Potassium 2. Sodium 3. Chloride 4. Bicarbonate 5. Urea 6. Creatinine 7. eGFR (for ages 18-74) <p>Endocrine [Gland] Function</p> <ol style="list-style-type: none"> 8. Glucose <p>Bone/Joint Profile</p> <ol style="list-style-type: none"> 9. Calcium 10. Phosphate 11. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 12. Protein, Total 13. Albumin 14. Globulin 15. A/G Ratio 16. Bilirubin, Total 17. Alkaline Phosphatase 18. Aspartate Aminotransferase (AST) 19. Alanine Aminotransferase (ALT) 20. Gamma-Glutamyltransferase (GGT) <p>Lipid [Fat] Profile</p> <ol style="list-style-type: none"> 21. Cholesterol, Total 22. Triglycerides 23. Cholesterol, HDL 24. Cholesterol, LDL 25. Cho/HDL Ratio <p>Serology tests:</p> <ol style="list-style-type: none"> 26. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 27. TPPA (if Syphilis TP Antibody is reactive) 28. C-Reactive Protein 29. Rheumatoid Factor 	<p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 30. Thyroxine, Free (FRT4) 31. Thyroid Stimulating Hormone (TSH3) <p>Tumour Marker Studies</p> <ol style="list-style-type: none"> 32. Alpha Fetoprotein 33. Carcinoembryonic Antigen (CEA) 34. CA 19.9 35. CA 125 (for female) Prostate Specific Antigen, Total (for male) <p>Viral Studies</p> <ol style="list-style-type: none"> 36. Hepatitis B Surface Antigen 37. Hepatitis B Surface Antibody 38. Hepatitis A Total Antibody (Anti-HAV Total) <p>Haematology tests:</p> <ol style="list-style-type: none"> 39. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 40. Differential Count <p>Urine test:</p> <ol style="list-style-type: none"> 41. Urine FEME 42. Microalbum/Creatinine Ratio, Urine <p>Stool test:</p> <ol style="list-style-type: none"> 43. Stool Occult Blood
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General Screen P6

Profile code: **GSP6 F General Screening Profile GSP6 (Female)**
GSP6 M General Screening Profile GSP6 (Male)

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine
 Fresh Stool

Turnaround Time: 2-4 days

<p>Biochemistry tests:</p> <p>Renal (Kidney) Profile</p> <ol style="list-style-type: none"> 1. Potassium 2. Sodium 3. Chloride 4. Bicarbonate 5. Urea 6. Creatinine 7. eGFR (for ages 18-74) <p>Endocrine (Gland) Function</p> <ol style="list-style-type: none"> 8. Glucose <p>Bone/Joint Profile</p> <ol style="list-style-type: none"> 9. Calcium 10. Phosphate 11. Uric Acid <p>Liver Profile</p> <ol style="list-style-type: none"> 12. Protein, Total 13. Albumin 14. Globulin 15. A/G Ratio 16. Bilirubin, Total 17. Alkaline Phosphatase 18. Aspartate Aminotransferase (AST) 19. Alanine Aminotransferase (ALT) 20. Gamma-Glutamyltransferase (GGT) <p>Lipid (Fat) Profile</p> <ol style="list-style-type: none"> 21. Cholesterol, Total 22. Triglycerides 23. Cholesterol, HDL 24. Cholesterol, LDL 25. Cho/HDL Ratio <p>Serology tests:</p> <ol style="list-style-type: none"> 26. Syphilis TP Antibody (Syphilis RPR & Titre if reactive) 27. TPPA (if Syphilis TP Antibody is reactive) 28. C-Reactive Protein 29. Rheumatoid Factor 	<p>Immunology tests:</p> <p>Thyroid Studies</p> <ol style="list-style-type: none"> 30. Thyroxine, Free (FRT4) 31. Thyroid Stimulating Hormone (TSH3) <p>Tumour Marker Studies</p> <ol style="list-style-type: none"> 32. Alpha Fetoprotein 33. Carcinoembryonic Antigen (CEA) 34. EBV EA+EBNA-1 IgA 35. CA 19.9 36. CA 125 (for female) Prostate Specific Antigen, Total (for male) <p>Viral Studies</p> <ol style="list-style-type: none"> 37. Hepatitis B Surface Antigen 38. Hepatitis B Surface Antibody 39. Hepatitis A Total Antibody (Anti-HAV Total) <p>Haematology tests:</p> <ol style="list-style-type: none"> 40. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 41. Differential Count <p>Urine test:</p> <ol style="list-style-type: none"> 42. Urine FEME 43. Microalbumum/Creatinine Ratio, Urine <p>Stool test:</p> <ol style="list-style-type: none"> 44. Stool Occult Blood
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5. PROFILES



ParkwayHealth™
Laboratory

BECAUSE LIFE MATTERS

5. Profiles

5.1 Anaemia Profile

Profile Summary Table: Anaemia Investigation

Profile Code	AIA	AIB	AIC	AID	AIE	AIF	AIG	AIJ
Haematology Tests								
• Haemoglobin	◆						◆	
• White Blood Cell Count	◆							
• Differential Count	◆							
• Red Blood Cell Count	◆						◆	
• Packed Cell Volume [HCT]	◆						◆	
• Red Cell Indices	◆						◆	
• Red Cell Distribution Width [RDW]	◆						◆	
• Mean Platelet Volume [MPV]	◆						◆	
• Platelet Count	◆							
• Peripheral Blood Film	◆						◆	
• Reticulocyte Count	◆							
• Hb Electrophoresis			◆				◆	
Biochemistry Tests								
• Iron, Serum		◆	◆	◆				◆
• Iron Binding Capacity, Total		◆	◆	◆				◆
• % Iron Saturation		◆	◆	◆				◆
• Transferrin								◆
Immunology Tests								
• Folic Acid, Serum		◆	◆		◆	◆	◆	
• Vitamin B12		◆	◆		◆	◆	◆	
• Ferritin		◆		◆		◆	◆	◆
Samples required								
SST Blood		◆	◆	◆	◆	◆	◆	◆
EDTA Blood	◆		◆				◆	

5.1 Anaemia Profile (cont'd)

Anaemia Investigation A

Profile code: **AIA**

Sample: 3mL Purple-top EDTA Blood

Turnaround Time: One working day

1. Haemoglobin	6. Red Cell Indices (MCV, MCH, MCHC)
2. White Blood Cell Count	7. Red Cell Distribution Width (RDW)
3. Differential Count	8. Mean Platelet Volume (MPV)
4. Red Blood Cell Count	9. Platelet Count
5. Packed Cell Volume (HCT)	10. Peripheral Blood Film
	11. Reticulocyte Count

Anaemia Investigation B

Profile code: **AIB**

Samples: 2x 5mL Yellow-top SST Blood (minimise exposure to light)

Turnaround Time: One working day

1. Iron, Serum	4. Folic Acid, Serum
2. Iron Binding Capacity, Total	5. Vitamin B12
3. % Iron Saturation	6. Ferritin

Anaemia Investigation C

Profile code: **AIC**

Samples: 2x 5mL Yellow-top SST Blood (minimise exposure to light)

3mL Purple-top EDTA Blood

Turnaround Time: One working day

1. Iron, Serum	4. Folic Acid, Serum
2. Iron Binding Capacity, Total	5. Vitamin B12
3. % Iron Saturation	6. Hb Electrophoresis

Anaemia Investigation D

Profile code: **AID**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Iron, Serum	3. % Iron Saturation
2. Iron Binding Capacity, Total	4. Ferritin

5.1 Anaemia Profile (cont'd)

Anaemia Investigation E

Profile code: **AIE**

Sample: 5mL Yellow-top SST Blood (minimise exposure to light)

Turnaround Time: One working day

1. Folic Acid, Serum	2. Vitamin B12
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Anaemia Investigation F

Profile code: **AIF**

Sample: 5mL Yellow-top SST Blood (minimise exposure to light)

Turnaround Time: One working day

1. Folic Acid, Serum 2. Vitamin B12	3. Ferritin
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Anaemia Investigation G

Profile code: **AIG**

Samples: 5mL Yellow-top SST Blood (minimise exposure to light)

3mL Purple-top EDTA Blood

Turnaround Time: 1-2 days

1. Folic Acid, Serum	6. Packed Cell Volume (HCT)
2. Vitamin B12	7. Red Cell Indices (MCV, MCH, MCHC)
3. Ferritin	8. Mean Platelet Volume (MPV)
4. Haemoglobin	9. Red Cell Distribution Width (RDW)
5. Red Blood Cell Count	10. Peripheral Blood Film
	11. Hb Electrophoresis

Anaemia Investigation J

Profile code: **AIJ**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Iron, Serum	4. Ferritin
2. Iron Binding Capacity, Total	5. Transferrin
3. % Iron Saturation	

5.2 Antenatal Profile

• Profile Summary Table: Antenatal Screen

Profile Code	ASA	ASB	ASC	ASD	ASE	ASG	ASJ	ASL
Haematology Tests								
• Haemogram	◆	◆	◆	◆	◆	◆	◆	◆
• Blood Group (ABO & Rh)	◆	◆	◆	◆	◆	◆	◆	◆
• Hb Electrophoresis					◆			
Biochemistry Test								
• Glucose				◆	◆	◆	◆	
Immunology Tests								
• Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	◆	◆	◆	◆	◆	◆	◆	◆
• TPPA (if Syphilis TP Antibody is reactive)	◆	◆	◆	◆	◆	◆	◆	◆
• Rubella IgG Antibody		◆	◆	◆	◆		◆	
• HBsAg		◆	◆	◆	◆		◆	◆
• HBsAb			◆	◆	◆		◆	◆
• Alpha Fetoprotein (Please indicate gestational age)							◆	
Urine Test								
• Urine FEME	◆	◆	◆	◆	◆	◆	◆	
Samples required								
SST Blood	◆	◆	◆	◆	◆	◆	◆	◆
EDTA Blood	◆	◆	◆	◆	◆	◆	◆	◆
FLUORIDE Blood				◆	◆	◆	◆	
Urine	◆	◆	◆	◆	◆	◆	◆	

5.2 Antenatal Profile (cont'd)

Antenatal Screen A

Profile code: **ASA**

Samples: 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
20mL Mid-stream Urine

Turnaround Time: One working day

1. Haemogram (HGM)	4. TPPA (if Syphilis TP Antibody is reactive)
2. Blood Group (ABO & Rh)	5. Urine FEME
3. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	

Antenatal Screen B

Profile code: **ASB**

Samples: 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
20mL Mid-stream Urine

Turnaround Time: One working day

1. Haemogram (HGM)	4. TPPA (if Syphilis TP Antibody is reactive)
2. Blood Group (ABO & Rh)	5. Rubella IgG Antibody
3. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	6. Hepatitis B Surface Antigen
	7. Urine FEME

Antenatal Screen C

Profile code: **ASC**

Samples: 2x 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
20mL Mid-stream Urine

Turnaround Time: One working day

1. Haemogram (HGM)	5. Rubella IgG Antibody
2. Blood Group (ABO & Rh)	6. Hepatitis B Surface Antigen
3. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	7. Hepatitis B Surface Antibody
4. TPPA (if Syphilis TP Antibody is reactive)	8. Urine FEME

5.2 Antenatal Profile (cont'd)

Antenatal Screen D

Profile code: **ASD**

Samples: 2x 5mL Yellow-top SST Blood
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

1. Haemogram (HGM)	6. Rubella IgG Antibody
2. Blood Group (ABO & Rh)	7. Hepatitis B Surface Antigen
3. Glucose	8. Hepatitis B Surface Antibody
4. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	9. Urine FEME
5. TPPA (if Syphilis TP Antibody is reactive)	

Antenatal Screen E

Profile code: **ASE**

Samples: 2x 5mL Yellow-top SST Blood
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: 1-2 days

1. Haemogram (HGM)	6. TPPA (if Syphilis TP Antibody is reactive)
2. Hb Electrophoresis	7. Rubella IgG Antibody
3. Blood Group (ABO & Rh)	8. Hepatitis B Surface Antigen
4. Glucose	9. Hepatitis B Surface Antibody
5. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	10. Urine FEME

5.2 Antenatal Profile (cont'd)

Antenatal Screen G

Profile code: **ASG**

Samples: 5mL Yellow-top SST Blood
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

1. Haemogram (HGM)	5. TPPA (if Syphilis TP Antibody is reactive)
2. Blood Group (ABO & Rh)	6. Urine FEME
3. Glucose	
4. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	

Antenatal Screen J

Profile code: **ASJ**

Samples: 2x 5mL Yellow-top SST Blood (Please indicate gestational age)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

1. Haemogram (HGM)	6. Rubella IgG Antibody
2. Blood Group (ABO & Rh)	7. Alpha Fetoprotein
3. Glucose	8. Hepatitis B Surface Antigen
4. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	9. Hepatitis B Surface Antibody
5. TPPA (if Syphilis TP Antibody is reactive)	10. Urine FEME

5.2 Antenatal Profile (cont'd)

Antenatal Screen L

Profile code: **ASL**

Samples: 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
Turnaround Time: One working day

1. Haemogram (HGM)	4. TPPA (if Syphilis TP Antibody is reactive)
2. Blood Group (ABO & Rh)	5. Hepatitis B Surface Antigen
3. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	6. Hepatitis B Surface Antibody

5.3 Arthritis & Bone Profile

Anti-Neutrophil Cytoplasmic Antibody (ANCA Elisa) Profile

Profiles Code: **ANCA**

Sample: 5mL Yellow-top SST Blood
Turnaround Time: 2-4 days

1. Anti Proteinase 3 Antibody [Anti-PR3]	2. Anti Myeloperoxidase Antibody [Anti-MPO]
--	---

Arthritis Profile

Profile code: **ARP**

Samples: 2x 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
Turnaround Time: 2-3 days

1. Haemoglobin	8. Anti-Nuclear Antibody
2. White Blood Cell Count	9. Anti-Streptolysin O Titre (ASOT)
3. Differential Count	10. C-Reactive Protein
4. ESR	11. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)
5. Calcium	12. TPPA (if Syphilis TP Antibody is reactive)
6. Uric Acid	
7. Rheumatoid Arthritis Factor	

5.3 Arthritis & Bone Profile [cont'd]

Arthritis Profile B

Profile code: **ARPB**

Samples: 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood

Turnaround Time: 2-3 days

1. ESR	4. Anti-Streptolysin O Titre (ASOT)
2. Rheumatoid Arthritis Factor	5. C-Reactive Protein
3. Anti-Nuclear Antibody	

Bone Profile

Profile code: **BONE**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Protein, Total	5. Alkaline Phosphatase, Total
2. Albumin	6. Calcium
3. Globulin	7. Phosphate
4. A/G Ratio	

5.4 Auto-Immune Disease Profile

Auto-Immune Disease Screen

Profile code: **AUTO IM**

Samples: 2x 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
10mL Green-top Sodium Heparin Blood
20mL Mid-stream Urine

Turnaround Time: 2-3 days

1. Haemoglobin	9. eGFR (for ages 18-74)
2. White Blood Cell Count	10. Albumin
3. Differential Count	11. C3 Complement
4. Platelet Count	12. C4 Complement
5. ESR	13. Rheumatoid Arthritis Factor
6. Lupus Erythematosus (L.E.) Cells	14. Anti-Nuclear Antibody
7. Urea	15. Anti-DNA
8. Creatinine	16. Urine FEME

5.4 Auto-Immune Disease Profile (cont'd)

Auto-Immune Disease Screen A

Profile code: **AUTO IMA**

Samples: 2x 5mL Yellow-top SST Blood
10mL Green-top Sodium Heparin Blood
Turnaround Time: 2-3 days

1. Lupus Erythematosus (L.E.) Cells	4. Anti-Nuclear Antibody
2. C3 Complement	5. Anti-DNA
3. C4 Complement	

Auto-Immune Disease Screen B

Profile code: **AUTO IMB**

Samples: 2x 5mL Yellow-top SST Blood
10mL Green-top Sodium Heparin Blood
Turnaround Time: 2-3 days

1. Lupus Erythematosus (L.E.) Cells	4. Rheumatoid Arthritis Factor
2. C3 Complement	5. Anti-Nuclear Antibody
3. C4 Complement	6. Anti-DNA

Auto-Immune Disease Screen C

Profile code: **AUTO IMC**

Samples: 2.7mL Blue-top Citrated Blood
5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
Turnaround Time: 2-3 days

1. ESR	3. Anti-Nuclear Antibody
2. Lupus Anticoagulant	4. Anti-DNA

5.5 Cardiac & Lipid Profile

Profile Summary Table: Coronary Risk Screen

Profile Code	ATS	CRS	CRSB	HTP1	HTP2	HTP3	LIS	LISG	LISU
Biochemistry Tests									
• Cholesterol, Total	◆	◆	◆	◆	◆	◆	◆	◆	◆
• Cholesterol, HDL	◆	◆	◆	◆	◆	◆	◆	◆	◆
• Cholesterol, LDL	◆	◆	◆	◆	◆	◆	◆	◆	◆
• Triglycerides	◆	◆	◆	◆	◆	◆	◆	◆	◆
• Cho/HDL Ratio	◆	◆	◆	◆	◆	◆	◆	◆	◆
• Apolipoprotein A		◆	◆						
• Apolipoprotein B		◆	◆						
• Apo B/A Ratio		◆	◆						
• Glucose	◆		◆	◆	◆	◆		◆	
• Urea	◆		◆	◆					
• Uric Acid	◆		◆	◆					◆
• Creatinine	◆			◆					
• ALT				◆	◆	◆			
• AST				◆	◆	◆			
• Creatine Kinase					◆	◆			
• Glycated Hb (HBA1C)						◆			
Haematology Test									
• Fibrinogen			◆						
Samples required									
CITRATED Blood			◆						
SST Blood	◆	◆	◆	◆	◆	◆	◆	◆	◆
FLUORIDE Blood	◆		◆	◆	◆	◆		◆	◆
EDTA Blood						◆			

5.5 Cardiac & Lipid Profile (cont'd)

Atherosclerosis Screen

Profile code: **ATS**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)

6mL Grey-top FLUORIDE Blood (for Glucose test)

Turnaround Time: One working day

1. Urea	6. Triglycerides
2. Creatinine	7. Cholesterol, Total
3. eGFR (for ages 18-74)	8. Cholesterol, HDL
4. Glucose	9. Cholesterol, LDL
5. Uric Acid	10. Cho/HDL Ratio

Cardiac Enzymes

Profile code: **CAE**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Aspartate Aminotransferase (AST)	3. Creatine Kinase-MB (CKMB)
2. Creatine Kinase (CKNAC)	4. Lactate Dehydrogenase (LDH)

Coronary Risk Screen

Profile code: **CRS**

Samples (fasting): 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)

Turnaround Time: One working day

1. Cholesterol, Total	5. Cho/HDL Ratio
2. Cholesterol, HDL	6. Apolipoprotein A
3. Cholesterol, LDL	7. Apolipoprotein B
4. Triglycerides	8. Apo B/A Ratio

5.5 Cardiac & Lipid Profile (cont'd)

Coronary Risk Screen B

Profile code: **CRSB**

Samples (fasting): 2.7mL Blue-top Citrated Blood
 2x 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 6mL Grey-top FLUORIDE Blood (for Glucose test)

Turnaround Time: One working day

1. Glucose	7. Triglycerides
2. Urea	8. Cho/HDL Ratio
3. Uric Acid	9. Apolipoprotein A
4. Cholesterol, Total	10. Apolipoprotein B
5. Cholesterol, HDL	11. Apo B/A Ratio
6. Cholesterol, LDL	12. Fibrinogen

Electrolytes

Profile code: **ELE**

Sample: 5mL Yellow-top SST Blood (4mL Green-top lithium heparin blood for STAT request)

Turnaround Time: One working day

1. Potassium	3. Chloride
2. Sodium	4. Bicarbonate

Hypertension Profile 1

Profile code: **HTP1**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 6mL Grey-top FLUORIDE Blood (for Glucose test)

Turnaround Time: One working day

1. Urea	7. Aspartate Aminotransferase (AST)
2. Creatinine	8. Triglycerides
3. eGFR (for ages 18-74)	9. Cholesterol, Total
4. Glucose	10. Cholesterol, HDL
5. Uric Acid	11. Cholesterol, LDL
6. Alanine Aminotransferase (ALT)	12. Cho/HDL Ratio

5.5 Cardiac & Lipid Profile (cont'd)

Hypertension Profile 2

Profile code: **HTP2**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
6mL Grey-top FLUORIDE Blood (for Glucose test)

Turnaround Time: One working day

1. Glucose	6. Cholesterol, Total
2. Alanine Aminotransferase (ALT)	7. Cholesterol, HDL
3. Aspartate Aminotransferase (AST)	8. Cholesterol, LDL
4. Creatine Kinase (CKNAC)	9. Cho/HDL Ratio
5. Triglycerides	

Hypertension Profile 3

Profile code: **HTP3**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
3mL Purple-top EDTA Blood
6mL Grey-top FLUORIDE Blood (for Glucose test)

Turnaround Time: One working day

1. Glycated Hb (HBA1C)	6. Triglycerides
2. Glucose	7. Cholesterol, Total
3. Alanine Aminotransferase (ALT)	8. Cholesterol, HDL
4. Aspartate Aminotransferase (AST)	9. Cholesterol, LDL
5. Creatine Kinase (CKNAC)	10. Cho/HDL Ratio

Lipid Screen

Profile code: **LIS**

Sample (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)

Turnaround Time: One working day

1. Cholesterol, Total	4. Triglycerides
2. Cholesterol, HDL	5. Cho/HDL Ratio
3. Cholesterol, LDL	

5.5 Cardiac & Lipid Profile (cont'd)

Lipid Screen + Glucose

Profile code: **LISG**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
6mL Grey-top FLUORIDE Blood (for Glucose test)

Turnaround Time: One working day

1. Lipid Screen	2. Glucose
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Lipid Screen + Uric Acid

Profile code: **LISU**

Sample (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
Turnaround Time: One working day

1. Lipid Screen	2. Uric Acid
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Lipoprotein Profile

Profile code: **LIPO**

Sample (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
Turnaround Time: One working day

1. Apolipoprotein A	3. Apo B/A Ratio
2. Apolipoprotein B	

5.6 Diabetic Profile

Profile Summary Table: Diabetic Profile

Profile Code	DIPB	DIPD	DIPE	DIPF
Biochemistry Tests				
• Glycated Hb (HBA1C)	◆	◆	◆	◆
• Glucose	◆	◆	◆	◆
• Potassium	◆		◆	◆
• Sodium	◆		◆	◆
• Chloride	◆		◆	◆
• Bicarbonate	◆			
• Urea	◆		◆	◆
• Creatinine	◆		◆	◆
• AST				◆
• ALT				◆
• Cholesterol, Total	◆		◆	◆
• Triglycerides	◆		◆	◆
• Cholesterol, HDL	◆		◆	◆
• Cholesterol, LDL	◆		◆	◆
• Cho/HDL Ratio	◆		◆	◆
• Creatinine Clearance Test	◆			
• Protein, Urine 24hr	◆			
• Urine Microalbumin			◆	◆
• Urine Creatinine			◆	◆
• Urine Microalbumin/Creatinine Ratio			◆	◆
Urine Test				
• Urine FEME	◆		◆	◆
Microbiology Test				
• Urine culture	◆			
Samples required				
SST Blood	◆		◆	◆
EDTA Blood	◆	◆	◆	◆
FLUORIDE Blood	◆	◆	◆	◆
Urine	◆		◆	◆
Urine, 24hr	◆			

5.6 Diabetic Profile (cont'd)

Diabetic Profile B

Profile code: **DIPB**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 24 hour Urine
 20mL Mid-stream Urine

Turnaround Time: 2-3 days

1. Glycated Hb (HBA1C)	9. Cholesterol, Total
2. Potassium	10. Cholesterol, HDL
3. Sodium	11. Cholesterol, LDL
4. Chloride	12. Triglycerides
5. Bicarbonate	13. Cho/HDL Ratio
6. Urea	14. Creatinine Clearance *
7. Creatinine	15. Protein, Urine 24hr
8. Glucose	16. Urine FEME
	17. Urine Culture

* Note: Please indicate HEIGHT and WEIGHT of patient.

Diabetic Profile D

Profile code: **DIPD**

Samples (fasting): 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (Patient should fast 12 hours)

Turnaround Time: One working day

1. Glycated Hb (HBA1C)	2. Glucose
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5.6 Diabetic Profile (cont'd)

Diabetic Profile E

Profile code: **DIPE**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

1. Glycated Hb (HBA1C)	9. Cholesterol, Total
2. Glucose	10. Cholesterol, HDL
3. Potassium	11. Cholesterol, LDL
4. Sodium	12. Triglycerides
5. Chloride	13. Cho/HDL Ratio
6. Urea	14. Urine Microalbumin
7. Creatinine	15. Urine Creatinine
8. eGFR (for ages 18-74)	16. Urine Microalbumin/Creatinine Ratio
	17. Urine FEME

Diabetic Profile F

Profile code: **DIPF**

Samples (fasting): 5mL Yellow-top SST Blood (Patient should fast 12 hours)
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 20mL Mid-stream Urine

Turnaround Time: One working day

1. Glycated Hb (HBA1C)	11. Cholesterol, Total
2. Glucose	12. Cholesterol, HDL
3. Potassium	13. Cholesterol, LDL
4. Sodium	14. Triglycerides
5. Chloride	15. Cho/HDL Ratio
6. Urea	16. Urine Microalbumin
7. Creatinine	17. Urine Creatinine
8. eGFR (for ages 18-74)	18. Urine Microalbumin/Creatinine Ratio
9. Alanine Aminotransferase (ALT)	19. Urine FEME
10. Aspartate Aminotransferase (AST)	

5.7 Drugs of Abuse Screen

Urine Drug Panel 10

Profile code: **UDT10**

Sample: 20mL Random Urine
Turnaround Time: One working day

1. Amphetamine	7. Methadone
2. Barbifurates	8. Opiates
3. Benzodiazepines	9. Phencyclidine
4. Cocaine	10. Tricyclic Antidepressants
5. Cannabis	
6. Methamphetamine	

5.8 Febrile Profile

Dengue Blot Test (IgG & IgM Antibody)

Profile code: **DEN GM**

Sample: 5mL Yellow-top SST Blood
Turnaround Time: One working day

1. Dengue Blot IgG Antibody *	2. Dengue Blot IgM Antibody *
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* For Dengue Antibody test, please indicate patient's **Address** on the request form.

Febrile Screen

Profile code: **FES**

Samples: 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
20mL Mid-stream Urine
Turnaround Time: 1-2 days

1. White Blood Cell Count	7. Monotest
2. Differential Count	8. Brucellosis Agglutination Test
3. Platelet Count	9. Widal Test
4. Malaria Parasites, Blood (MP) *	10. Weil Felix Test
5. ESR	11. Urine FEME
6. Alanine Aminotransferase (ALT)	

* For MP test, please indicate patient's **Nationality** and recent travel history on the request form.

5.8 Febrile Profile (cont'd)

Febrile Screen A

Profile code: **FESA**

Samples: 2x 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
20mL Mid-stream Urine

Turnaround Time: 1-2 days

1. White Blood Cell Count	8. Brucellosis Agglutination Test
2. Differential Count	9. Widal Test
3. Platelet Count	10. Weil Felix Test
4. Malaria Parasites, Blood (MP) *	11. Dengue Blot IgG Antibody *
5. ESR	12. Dengue Blot IgM Antibody *
6. Alanine Aminotransferase (ALT)	13. Urine FEME
7. Monotest	

* For MP test, please indicate patient's **Nationality** and recent travel history on the request form.

* For Dengue Antibody test, please indicate patient's **Address** on the request form.

Widal & Weil Felix Test

Profile code: **WWF**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: 1-2 days

1. Widal Test	2. Weil Felix Test
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5.9 Haematology & Coagulation Profile

Coagulation Profile

Profile code: **COAG**

Samples: 2.7mL Blue-top Citrated Blood
3mL Purple-top EDTA Blood

Turnaround Time: One working day

1. Platelet Count	3. Partial Thromboplastin Time, Activated (PTT)
2. Prothrombin Time with INR (PT/INR)	

5.9 Haematology & Coagulation Profile (cont'd)

Full Blood Count

Profile code: **FBC**

Sample: 3mL Purple-top EDTA Blood

Turnaround Time: One working day

1. Haemoglobin	5. Red Cell Indices (MCV, MCH, MCHC)
2. White Blood Cell Count	6. Red Cell Distribution Width (RDW)
3. Differential Count	7. Mean Platelet Volume (MPV)
4. Red Blood Cell Count	8. Packed Cell Volume
	9. Platelet Count

Full Blood Count with PBF

Profile code: **H013**

Sample: 3mL Purple-top EDTA Blood

Turnaround Time: One working day

1. Haemoglobin	6. Red Cell Distribution Width (RDW)
2. White Blood Cell Count	7. Mean Platelet Volume (MPV)
3. Differential Count	8. Packed Cell Volume
4. Red Blood Cell Count	9. Platelet Count
5. Red Cell Indices (MCV, MCH, MCHC)	10. Peripheral Blood Film

Haemogram

Profile code: **HGM**

Sample: 3mL Purple-top EDTA Blood

Turnaround Time: One working day

1. Haemoglobin	5. Red Cell Distribution Width (RDW)
2. White Blood Cell Count	6. Mean Platelet Volume (MPV)
3. Red Blood Cell Count	7. Packed Cell Volume
4. Red Cell Indices (MCV, MCH, MCHC)	8. Platelet Count

5.9 Haematology & Coagulation Profile (cont'd)

Thalassemia Screen

Profile code: **THS**

Sample: 3mL Purple-top EDTA Blood

Turnaround Time: 1-2 days

1. Haemoglobin	6. Packed Cell Volume (HCT)
2. Red Blood Cell Count	7. White Blood Cell Count
3. Red Cell Indices (MCV, MCH, MCHC)	8. Platelet Count
4. Red Cell Distribution Width (RDW)	9. Peripheral Blood Film
5. Mean Platelet Volume (MPV)	10. Hb Electrophoresis

Thalassemia Screen B

Profile code: **THSB**

Samples: 5mL Yellow-top SST Blood

3mL Purple-top EDTA Blood

Turnaround Time: 1-2 days

1. Ferritin	7. Packed Cell Volume (HCT)
2. Haemoglobin	8. White Blood Cell Count
3. Red Blood Cell Count	9. Platelet Count
4. Red Cell Indices (MCV, MCH, MCHC)	10. Peripheral Blood Film
5. Red Cell Distribution Width (RDW)	11. Hb Electrophoresis
6. Mean Platelet Volume (MPV)	

5.10 Hepatitis Profile

Profile Summary Table: Hepatitis Profile

Profile Code	HEP	HEP2	HEP3	HEP4	HEP5	HEP6	HEP7	HEP8	HEP9	HEP10	HEP11
Immunology Tests											
• HBsAg	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆
• HBsAb		◆			◆	◆	◆	◆		◆	
• Anti-HAV IgM	◆	◆								◆	◆
• Anti-HAV Total						◆	◆	◆			
• Anti-HBc IgM		◆								◆	
• Anti-HBc Total			◆			◆		◆			
• Hepatitis C Antibody							◆	◆	◆	◆	◆
• HBe Antigen			◆	◆	◆				◆		
• HBe Antibody			◆		◆						
• Alpha Fetoprotein			◆	◆	◆						
Biochemistry Tests											
• Bilirubin, Total	◆	◆	◆		◆					◆	
• Protein, Total	◆		◆								
• Albumin	◆		◆								
• Globulin	◆		◆								
• A/G Ratio	◆		◆								
• Alkaline Phosphatase	◆	◆	◆							◆	
• ALT	◆	◆	◆	◆	◆					◆	
• AST	◆	◆	◆							◆	
• GGT			◆								
Samples required											
SST Blood	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

5.10 Hepatitis Profile (cont'd)

Hepatitis B Screen

Profile code: **AGAB**

Samples: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Hepatitis B Surface Antigen	2. Hepatitis B Surface Antibody
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Hepatitis Profile

Profile code: **HEP**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: 2-4 days

1. Hepatitis B Surface Antigen	6. Globulin
2. Hepatitis A Virus (HAV) IgM Antibody	7. A/G Ratio
3. Bilirubin, Total	8. Alkaline Phosphatase
4. Protein, Total	9. Alanine Aminotransferase (ALT)
5. Albumin	10. Aspartate Aminotransferase (AST)

Hepatitis Profile 2 (Acute Hepatitis Screen A)

Profile code: **HEP2**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: 2-4 days

1. Hepatitis B Surface Antigen	5. Bilirubin, Total
2. Hepatitis B Surface Antibody	6. Alkaline Phosphatase
3. Hepatitis A Virus (HAV) IgM Antibody	7. Alanine Aminotransferase (ALT)
4. HBc IgM Antibody	8. Aspartate Aminotransferase (AST)

5.10 Hepatitis Profile (cont'd)

Hepatitis Profile 3

Profile code: **HEP3**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Alpha Fetoprotein	8. Globulin
2. HBe Antigen	9. A/G Ratio
3. HBe Antibody	10. Alkaline Phosphatase
4. HBc Total Antibody (Anti-HBc Total)	11. Alanine Aminotransferase (ALT)
5. Bilirubin, Total	12. Gamma-Glutamyltransferase (GGT)
6. Protein, Total	13. Aspartate Aminotransferase (AST)
7. Albumin	

Hepatitis Profile 4 (Hepatitis B Infectivity Screen)

Profile code: **HEP4**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Alpha Fetoprotein	3. HBe Antigen
2. Hepatitis B Surface Antigen	4. Alanine Aminotransferase (ALT)

Hepatitis Profile 5 (Hepatitis B Carrier Screen)

Profile code: **HEP5**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Alpha Fetoprotein	5. HBe Antibody
2. Hepatitis B Surface Antigen	6. Bilirubin, Total
3. Hepatitis B Surface Antibody	7. Alanine Aminotransferase (ALT)
4. HBe Antigen	

5.10 Hepatitis Profile (cont'd)

Hepatitis Profile 6 (Hepatitis Immunity Screen)

Profile code: **HEP6**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Hepatitis B Surface Antigen	3. Hepatitis A Total Antibody (Anti-HAV Total)
2. Hepatitis B Surface Antibody	4. HBc Total Antibody (Anti-HBc Total)

Hepatitis Profile 7

Profile code: **HEP7**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Hepatitis B Surface Antigen	3. Hepatitis A Total Antibody (Anti-HAV Total)
2. Hepatitis B Surface Antibody	4. Hepatitis C Antibody (HCV)

Hepatitis Profile 8

Profile code: **HEP8**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Hepatitis B Surface Antigen	4. Hepatitis C Antibody (HCV)
2. Hepatitis B Surface Antibody	5. HBc Total Antibody (Anti-HBc Total)
3. Hepatitis A Total Antibody (Anti-HAV Total)	

Hepatitis Profile 9 (Hepatitis Infectivity Screen)

Profile code: **HEP9**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Hepatitis B Surface Antigen	3. HBe Antigen
2. Hepatitis C Antibody (HCV)	

5.10 Hepatitis Profile (cont'd)

Hepatitis Profile 10 (Acute Hepatitis Screen B)

Profile code: **HEP10**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: 2-4 days

1. Hepatitis B Surface Antigen	6. Bilirubin, Total
2. Hepatitis B Surface Antibody	7. Alkaline Phosphatase
3. Hepatitis A Virus (HAV) IgM Antibody	8. Alanine Aminotransferase [ALT]
4. HBc IgM Antibody	9. Aspartate Aminotransferase [AST]
5. Hepatitis C Antibody (HCV)	

Hepatitis Profile 11 (Acute Viral Screen)

Profile code: **HEP11**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: 2-4 days

1. Hepatitis B Surface Antigen	3. Hepatitis C Antibody (HCV)
2. Hepatitis A Virus (HAV) IgM Antibody	

5.11 Hormone Profile

• Profile Summary Table: Hormone Profile

Profile Code	HPA F HPA M	HPB F HPB M	HPC F HPC M	HPD F HPD M	HPE F HPE M	HPH F HPH M	HPF F	HPF M	HPF2 F	MEP	HPMA	HPMB	HPP F HPP M	FBIOT
Tests														
• FSH	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
• LH (for female) • ICSH (for male)	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	
• Estradiol	◆	◆	◆				◆		◆	◆	◆	◆		
• Testosterone	◆	◆	◆	◆	◆			◆						◆
• Testosterone, Free [Calculated]														◆
• Testosterone, Bio- available [Calculated]														◆
• Prolactin	◆	◆	◆	◆	◆	◆	◆	◆	◆			◆	◆	
• Progesterone							◆				◆	◆		
• DHEASO4			◆											
• Cortisol			◆											
• Thyroid StimulatingHormone									◆				◆	
• Thyroxine, Free	◆		◆			◆	◆	◆	◆					
• Sex Hormone Binding Globulin														◆
Samples required														
SST Blood	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

5.11 Hormone Profile (cont'd)

Hormone Profile A

Profile code: **HPA F Hormone Profile A (Female)**
HPA M Hormone Profile A (Male)

Samples: 2x 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	4. Testosterone
2. Luteinising Hormone (LH or ICSH)	5. Prolactin
3. Estradiol (E26)	6. Thyroxine, Free (FRT4)

Hormone Profile B

Profile code: **HPB F Hormone Profile B (Female)**
HPB M Hormone Profile B (Male)

Sample: 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	4. Testosterone
2. Luteinising Hormone (LH or ICSH)	5. Prolactin
3. Estradiol (E26)	

Hormone Profile C

Profile code: **HPC F Hormone Profile C (Female)**
HPC M Hormone Profile C (Male)

Samples: 2x 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: 2-4 days

1. Follicle Stimulating Hormone (FSH)	6. Thyroxine, Free (FRT4)
2. Luteinising Hormone (LH or ICSH)	7. Dehydroepiandrosterone Sulfate (DHEAS)
3. Estradiol (E26)	8. Cortisol
4. Testosterone	
5. Prolactin	

5.11 Hormone Profile (cont'd)

Hormone Profile D

Profile code: **HPD F** **Hormone Profile D (Female)**
HPD M **Hormone Profile D (Male)**

Sample: 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Testosterone	3. Follicle Stimulating Hormone (FSH)
2. Prolactin	4. Luteinising Hormone (LH or ICSH)

Hormone Profile E

Profile code: **HPE F** **Hormone Profile E (Female)**
HPE M **Hormone Profile E (Male)**

Sample: 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Testosterone	3. Follicle Stimulating Hormone (FSH)
2. Prolactin	

Hormone Profile H

Profile code: **HPH F** **Hormone Profile H (Female)**
HPH M **Hormone Profile H (Male)**

Sample: 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	3. Prolactin
2. Luteinising Hormone (LH or ICSH)	4. Thyroxin, Free (FRT4)

5.11 Hormone Profile (cont'd)

Hormone Profile-Fertility (F)

Profile code: **HPF F**

Samples: 2x 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	4. Prolactin
2. Luteinising Hormone (LH)	5. Progesterone
3. Estradiol (E26)	6. Thyroxine, Free (FRT4)

Hormone Profile-Fertility (M)

Profile code: **HPF M**

Samples: 2x 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	4. Prolactin
2. Interstitial Cell Stimulating Hormone (ICSH)	5. Thyroxine, Free (FRT4)
3. Testosterone	

Hormone Profile-Fertility 2 (F)

Profile code: **HPF2 F**

Samples: 2x 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	5. Thyroid Stimulating Hormone (TSH3)
2. Luteinising Hormone (LH)	6. Thyroxine, Free (FRT4)
3. Estradiol (E26)	
4. Prolactin	

Hormone Profile-Menopausal

Profile code: **MEP**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	3. Estradiol (E26)
2. Luteinising Hormone (LH)	

5.11 Hormone Profile (cont'd)

Hormone Profile-Menstrual Cycle A

Profile code: **HPMA**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	3. Estradiol (E26)
2. Luteinising Hormone (LH)	4. Progesterone

Hormone Profile-Menstrual Cycle B

Profile code: **HPMB**

Sample: 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	4. Progesterone
2. Luteinising Hormone (LH)	5. Prolactin
3. Estradiol (E26)	

Hormone Profile-Pituitary

Profile code: **HPP F Hormone Profile-Pituitary (Female)**
HPP M Hormone Profile-Pituitary (Male)

Sample: 5mL Yellow-top SST Blood (Patient is required to rest ½ hour before blood taking)

Turnaround Time: One working day

1. Follicle Stimulating Hormone (FSH)	3. Prolactin
2. Luteinising Hormone (LH or ICSH)	4. Thyroid Stimulating Hormone (TSH3)

Testosterone, Free and Bioavailable (Calculated)

Profile code: **FBIOT**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: 2-4 days

1. Testosterone, Free (Calculated)	3. Testosterone, Bioavailable (Calculated)
2. Testosterone, Total	4. Sex Hormone Binding Globulin

5.12 Liver Profile

Profile Summary Table: Liver Function

Profile Code	LFTA	LFTB	LFTC	LFTD	LFTE	LFTG
Biochemistry Tests						
• Bilirubin, Total	◆	◆	◆	◆	◆	◆
• Protein, Total	◆	◆	◆		◆	◆
• Albumin	◆	◆	◆		◆	◆
• Globulin	◆	◆	◆		◆	◆
• A/G Ratio	◆	◆	◆		◆	◆
• Alkaline Phosphatase	◆	◆	◆	◆	◆	◆
• ALT	◆	◆	◆	◆	◆	◆
• GGT	◆	◆	◆	◆	◆	◆
• AST	◆	◆	◆	◆	◆	◆
• Lactate Dehydrogenase						◆
Immunology Tests						
• Alpha Fetoprotein		◆	◆		◆	
• HBsAg		◆	◆			
• HBsAb		◆	◆			
• Anti-HAV Total		◆				
Samples required						
SST Blood	◆	◆	◆	◆	◆	◆

Liver Function Test A

Profile code: **LFTA**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Bilirubin, Total	6. Alkaline Phosphatase
2. Protein, Total	7. Alanine Aminotransferase (ALT)
3. Albumin	8. Gamma-Glutamyltransferase (GGT)
4. Globulin	9. Aspartate Aminotransferase (AST)
5. A/G Ratio	

5.12 Liver Profile (cont'd)

Liver Function Test B

Profile code: **LFTB**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Bilirubin, Total	8. Gamma-Glutamyltransferase (GGT)
2. Protein, Total	9. Aspartate Aminotransferase (AST)
3. Albumin	10. Alpha Fetoprotein
4. Globulin	11. Hepatitis B Surface Antigen
5. A/G Ratio	12. Hepatitis B Surface Antibody
6. Alkaline Phosphatase	13. HAV Total Antibody (Anti-HAV Total)
7. Alanine Aminotransferase (ALT)	

Liver Function Test C

Profile code: **LFTC**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Bilirubin, Total	7. Alanine Aminotransferase (ALT)
2. Protein, Total	8. Gamma-Glutamyltransferase (GGT)
3. Albumin	9. Aspartate Aminotransferase (AST)
4. Globulin	10. Alpha Fetoprotein
5. A/G Ratio	11. Hepatitis B Surface Antigen
6. Alkaline Phosphatase	12. Hepatitis B Surface Antibody

Liver Function Test D

Profile code: **LFTD**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Bilirubin, Total	4. Gamma-Glutamyltransferase (GGT)
2. Alkaline Phosphatase	5. Aspartate Aminotransferase (AST)
3. Alanine Aminotransferase (ALT)	

5.12 Liver Profile (cont'd)

Liver Function Test E

Profile code: **LFTE**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Bilirubin, Total	6. Alkaline Phosphatase
2. Protein, Total	7. Alanine Aminotransferase [ALT]
3. Albumin	8. Gamma-Glutamyltransferase [GGT]
4. Globulin	9. Aspartate Aminotransferase [AST]
5. A/G Ratio	10. Alpha Fetoprotein

Liver Function Test G

Profile code: **LFTG**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Bilirubin, Total	6. Alkaline Phosphatase
2. Protein, Total	7. Alanine Aminotransferase [ALT]
3. Albumin	8. Gamma-Glutamyltransferase [GGT]
4. Globulin	9. Aspartate Aminotransferase [AST]
5. A/G Ratio	10. Lactate Dehydrogenase [LDH]

5.13 Miscarriage Profile

Miscarriage Profile A

Profile code: **MISA**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: 2-4 days

1. Rubella IgM Antibody	5. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)
2. Toxoplasma IgM Antibody	6. TPPA (if Syphilis TP Antibody is reactive)
3. CMV IgM Antibody	
4. Herpes Simplex Virus Type II IgG Antibody	

Note: There is cross reaction between Type I and Type II herpes virus antigen. A positive serology (for Type I or Type II) is not an absolute or confirmatory indication of a sexually transmitted disease.

5.13 Miscarriage Profile (cont'd)

Miscarriage Profile B

Profile code: **MISB**

Samples: 2.7mL Blue-top Citrated Blood
 2x 5mL Yellow-top SST Blood
 20mL Mid-stream Urine

Turnaround Time: 2 days

1. Anti-Nuclear Antibody	5. Triiodothyronine, Total (T3)
2. Anti-DNA	6. Thyroxine, Free (FRT4)
3. Lupus Anticoagulant	7. Urine FEME
4. Thyroid Stimulating Hormone (TSH3)	

5.14 Myeloma & Immunoglobulin Profile

Immunoglobulin Profile

Profile code: **IMP**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Immunoglobulin A (IgA)	3. Immunoglobulin M (IgM)
2. Immunoglobulin G (IgG)	

Immunoglobulin Profile B

Profile code: **IMPB**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: 2-4 days

1. Immunoglobulin A (IgA)	3. Immunoglobulin M (IgM)
2. Immunoglobulin G (IgG)	4. Immunoglobulin E (IgE)

5.14 Myeloma & Immunoglobulin Profile (cont'd)

Myeloma Profile

Profile code: **MYP**

Samples: 5mL Yellow-top SST Blood
20mL Mid-stream Urine

Turnaround Time: 2-7 days

1. Protein, Total	5. Immunoglobulin IgA
2. Albumin	6. Immunoglobulin IgG
3. Globulin	7. Immunoglobulin IgM
4. Protein Electrophoresis	8. Bence Jones Protein, Urine

5.15 Premarital Profile

Premarital Profile 1

Profile code: **PMP1**

Samples: 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood

Turnaround Time: 1-2 days

1. Haemogram (HGM)	6. Hepatitis B Surface Antibody
2. Differential Count	7. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)
3. Hb Electrophoresis	8. TPPA (if Syphilis TP Antibody is reactive)
4. Blood Group (ABO & Rh)	
5. Hepatitis B Surface Antigen	

5.15 Premarital Profile (cont'd)

Premarital Profile 2

Profile code: **PMP2**

Samples: 2x 5mL Yellow-top SST Blood

3mL Purple-top EDTA Blood

Turnaround Time: 1-2 days

1. Haemogram (HGM)	7. Hepatitis B Surface Antibody
2. Differential Count	8. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)
3. Hb Electrophoresis	9. TPPA (if Syphilis TP Antibody is reactive)
4. Blood Group (ABO & Rh)	
5. Rubella IgG Antibody	
6. Hepatitis B Surface Antigen	

5.16 Pre-Op Profile

Pre-Op Profile

Profile code: **POP**

Samples: 2.7mL Blue-top Citrated Blood

5mL Yellow-top SST Blood

3mL Purple-top EDTA Blood

20mL Mid-stream Urine

Turnaround Time: One working day

1. Haemogram - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count	5. Prothrombin Time with INR (PT/INR)
2. Differential Count	6. Partial Thromboplastin Time, Activated (PTT)
3. ESR	7. Potassium
4. Blood Group (ABO & Rh)	8. Sodium
	9. Chloride
	10. Bicarbonate
	11. Urea
	12. Urine FEME

5.16 Pre-Op Profile (cont'd)

Pre-Op Profile 1

Profile code: **POP1**

Samples: 2.7mL Blue-top Citrated Blood
3mL Purple-top EDTA Blood

Turnaround Time: One working day

<ol style="list-style-type: none"> 1. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 	<ol style="list-style-type: none"> 2. Differential Count 3. Peripheral Blood Film 4. Prothrombin Time with INR (PT/INR) 5. Partial Thromboplastin Time, Activated (PTT) 6. Thrombin Clotting Time (TCT)
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Pre-Op Profile 2

Profile code: **POP2**

Samples: 2.7mL Blue-top Citrated Blood
5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
20mL Mid-stream Urine

Turnaround Time: One working day

<ol style="list-style-type: none"> 1. Haemogram <ul style="list-style-type: none"> - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count 2. Differential Count 3. Peripheral Blood Film 	<ol style="list-style-type: none"> 4. Blood Group (ABO & Rh) 5. Prothrombin Time with INR (PT/INR) 6. Partial Thromboplastin Time, Activated (PTT) 7. Potassium 8. Sodium 9. Chloride 10. Bicarbonate 11. Urea 12. Creatinine 13. eGFR (for ages 18-74) 14. Urine FEME
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5.16 Pre-Op Profile (cont'd)

Pre-Op Profile 3

Profile code: **POP3**

Samples: 2.7mL Blue-top Citrated Blood
 2x 5mL Yellow-top SST Blood
 3mL Purple-top EDTA Blood
 20mL Mid-stream Urine

Turnaround Time: One working day

1. Haemogram - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count	7. Potassium
2. Differential Count	8. Sodium
3. ESR	9. Chloride
4. Blood Group (ABO & Rh)	10. Bicarbonate
5. Prothrombin Time with INR (PT/INR)	11. Urea
6. Partial Thromboplastin Time, Activated (PTT)	12. Urine FEME
	13. Anti-HIV1/HIV2*
	14. Hepatitis B Surface Antigen
	15. Hepatitis C Antibody
	16. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)
	17. TPPA (if Syphilis TP Antibody is reactive)

*Please include patient's nationality and passport no. to avoid rejection.

5.16 Pre-Op Profile (cont'd)

Pre-Op Profile 4

Profile code: **POP4**

Samples: 2.7mL Blue-top Citrated Blood
 2x 5mL Yellow-top SST Blood
 3mL Purple-top EDTA Blood
 20mL Mid-stream Urine

Turnaround Time: One working day

1. Haemogram - Haemoglobin - Red Blood Cell Count - Packed Cell Volume (HCT) - Red Cell Indices (MCV, MCH, MCHC) - Red Cell Distribution Width (RDW) - Mean Platelet Volume (MPV) - Platelet Count - White Blood Cell Count	8. Sodium 9. Chloride 10. Bicarbonate 11. Urea 12. Creatinine 13. Alanine Aminotransferase (ALT) 14. Aspartate Aminotransferase (AST) 15. Urine FEME 16. Anti-HIV1/HIV2*
2. Differential Count	17. Hepatitis B Surface Antigen
3. ESR	18. Hepatitis C Antibody
4. Blood Group (ABO & Rh)	19. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)
5. Prothrombin Time with INR (PT/INR)	20. TPPA (if Syphilis TP Antibody is reactive)
6. Partial Thromboplastin Time, Activated (PTT)	
7. Potassium	

*Please include patient's nationality and passport no. to avoid rejection.

5.17 Renal Profile

• Profile Summary Table: Renal Function

Profile Code	RFA	RFB	RFC	RFD	RFE	RES
Biochemistry Tests						
• Potassium	◆	◆	◆			◆
• Sodium	◆	◆	◆			◆
• Chloride	◆	◆	◆			◆
• Bicarbonate	◆	◆	◆			◆
• Urea	◆	◆	◆	◆	◆	◆
• Creatinine	◆	◆	◆	◆	◆	◆
• Glucose		◆	◆	◆	◆	◆
• Albumin		◆	◆			
• Cholesterol, Total			◆	◆	◆	
• Uric Acid			◆	◆	◆	
• Calcium				◆		
• Creatinine Clearance Test		◆	◆	◆		
• Protein, Urine 24hr		◆	◆	◆		
• Uric Acid, Urine 24hr				◆		
• Calcium, Urine 24hr				◆		
Haematology Test						
• Haemoglobin		◆	◆			
Urine Test						
• Urine FEME	◆		◆		◆	
Microbiology Test						
• Urine Culture	◆				◆	
Samples required						
SST Blood	◆	◆	◆	◆	◆	◆
EDTA Blood		◆	◆			
FLUORIDE Blood		◆	◆	◆	◆	◆
Urine	◆		◆		◆	
Urine, 24hr		◆	◆	◆		

5.17 Renal Profile (cont'd)

Renal Function A

Profile code: **RFA**

Samples: 5mL Yellow-top SST Blood
20mL Mid-stream Urine

Turnaround Time: 2-3 days

1. Potassium	6. Creatinine
2. Sodium	7. eGFR (for ages 18-74)
3. Chloride	8. Urine FEME
4. Bicarbonate	9. Urine Culture
5. Urea	

Renal Function B

Profile code: **RFB**

Samples: 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
6mL Grey-top FLUORIDE Blood (for Glucose test)
24 hour Urine

Turnaround Time: One working day

1. Haemoglobin	7. Creatinine
2. Potassium	8. Glucose
3. Sodium	9. Albumin
4. Chloride	10. Creatinine Clearance *
5. Bicarbonate	11. Protein, Urine 24hr
6. Urea	

* Note: Please indicate HEIGHT and WEIGHT of patient.

5.17 Renal Profile (cont'd)

Renal Function C

Profile code: **RFC**

Samples: 5mL Yellow-top SST Blood
 3mL Purple-top EDTA Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 24 hour Urine
 20mL Mid-stream Urine

Turnaround Time: 1-2 days

1. Haemoglobin	8. Glucose
2. Potassium	9. Albumin
3. Sodium	10. Uric Acid
4. Chloride	11. Cholesterol, Total
5. Bicarbonate	12. Creatinine Clearance *
6. Urea	13. Protein, Urine 24hr
7. Creatinine	14. Urine FEME

* Note: Please indicate HEIGHT and WEIGHT of patient.

Renal Function D

Profile code: **RFD**

Samples: 5mL Yellow-top SST Blood
 6mL Grey-top FLUORIDE Blood (for Glucose test)
 24 hour Urine

Turnaround Time: One working day

1. Urea	6. Cholesterol, Total
2. Creatinine	7. Creatinine Clearance *
3. Glucose	8. Protein, Urine 24hr
4. Calcium	9. Calcium, Urine 24hr
5. Uric Acid	10. Uric Acid, Urine 24hr

* Note: Please indicate HEIGHT and WEIGHT of patient.

5.17 Renal Profile (cont'd)

Renal Function E

Profile code: **RFE**

Samples: 5mL Yellow-top SST Blood
6mL Grey-top FLUORIDE Blood (for Glucose test)
20mL Mid-stream Urine

Turnaround Time: 2-3 days

1. Urea	5. Uric Acid
2. Creatinine	6. Cholesterol, Total
3. eGFR (for ages 18-74)	7. Urine FEME
4. Glucose	8. Urine Culture

Renal Screen

Profile code: **RES**

Samples: 5mL Yellow-top SST Blood (4mL Green-top lithium heparin blood for STAT request)
6mL Grey-top FLUORIDE Blood (for Glucose test)

Turnaround Time: One working day

1. Potassium	5. Urea
2. Sodium	6. Creatinine
3. Chloride	7. eGFR (for ages 18-74)
4. Bicarbonate	8. Glucose, Random

5.18 STD Profile

• Profile Summary Table: STD Screen

Profile Code	STD1	STD2	STD3	STD4	STD6	STDA	STDB	STDC	STDD	STDE	STDF
Immunology Tests											
• Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	◆	◆		◆		◆	◆	◆			
• TPPA (if Syphilis TP Antibody is reactive)	◆			◆		◆	◆	◆			
• Chlamydia trachomatis DNA				◆	◆						
• Herpes Type I IgG Antibody				◆	◆		◆	◆			
• Herpes Type II IgG Antibody				◆	◆		◆	◆			
Microbiology Tests											
• Swab for Monilia and Trichomonas	◆	◆				◆	◆		◆	◆	◆
• Swab for Gram Stain	◆	◆				◆	◆		◆	◆	◆
• Swab for GC Culture	◆		◆	◆	◆	◆	◆		◆	◆	◆
• Swab for Bacterial Culture										◆	◆
• Swab for Mycoplasma Culture										◆	◆
• Urine Culture			◆								◆
Urine Test											
• Urine, FEEM	◆	◆	◆								◆
Samples required											
SST Blood	◆	◆		◆	◆	◆	◆	◆			
Sterile Swab with Transport Media	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆
Urine	◆	◆	◆								◆

Herpes I & II IgG Antibody

Profile code: **HS1/2G**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: 2-4 days

1. Herpes Type I IgG Antibody	2. Herpes Type II IgG Antibody
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Note: There is cross reaction between Type I and Type II herpes virus antigen. A positive serology (for Type I or Type II) is not an absolute or confirmatory indication of a sexually transmitted disease.

5.18 STD Profile (cont'd)

STD Screen 1

Profile code: **STD1**

Samples: 5mL Yellow-top SST Blood
Urethral/Endocervical Swab with Transport Media for GC Culture.
(Keep at room temperature)
20mL Mid-stream Urine
Only genital swab will be accepted for GC Culture

Turnaround Time: 2-4 days

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	4. Gram Stain
2. TPPA (if Syphilis TP Antibody is reactive)	5. Monilia and Trichomonas (Wet Mount)
3. GC Culture	6. Urine FEME

STD Screen 2

Profile code: **STD2**

Samples: 5mL Yellow-top SST Blood
Urethral/Endocervical Swab with Transport Media
20mL Mid-stream Urine

Turnaround Time: 2-3 days

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	3. Gram Stain
2. TPPA (if Syphilis TP Antibody is reactive)	4. Monilia and Trichomonas (Wet Mount)
	5. Urine FEME

STD Screen 3

Profile code: **STD3**

Samples: Urethral/Endocervical Swab with Transport Media for GC Culture.
(Keep at room temperature)
20mL Mid-stream Urine
Only genital swab will be accepted for GC Culture

Turnaround Time: 2-4 days

1. Urine FEME	3. GC Culture
2. Urine Culture	

5.18 STD Profile (cont'd)

STD Screen 4

Profile code: **STD4**

Samples: 5mL Yellow-top SST Blood
 Urethral/Endocervical Swab with Transport Media for GC Culture.
 [Keep at room temperature]
 Urine or Urethral Swab (without transport medium) for Male,
 Endocervical Swab (without transport medium) for Female for
 Chlamydia

Only genital swab will be accepted for GC Culture

Turnaround Time: 2-4 days

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	4. Chlamydia trachomatis PCR
2. TPPA (if Syphilis TP Antibody is reactive)	5. Herpes Type I IgG Antibody
3. GC Culture	6. Herpes Type II IgG Antibody

Note: There is cross reaction between Type I and Type II herpes virus antigen. A positive serology (for Type I or Type II) is not an absolute or confirmatory indication of a sexually transmitted disease.

STD Screen 6

Profile code: **STD6**

Samples: 5mL Yellow-top SST Blood
 Urethral/Endocervical Swab with Transport Media for GC Culture.
 [Keep at room temperature]
 Urine or Urethral Swab (without transport medium) for Male,
 Endocervical Swab (without transport medium) for Female for
 Chlamydia

Only genital swab will be accepted for GC Culture

Turnaround Time: 2-4 days

1. GC Culture	3. Herpes Type I IgG Antibody
2. Chlamydia trachomatis PCR	4. Herpes Type II IgG Antibody

Note: There is cross reaction between Type I and Type II herpes virus antigen. A positive serology (for Type I or Type II) is not an absolute or confirmatory indication of a sexually transmitted disease.

5.18 STD Profile (cont'd)

STD Screen A

Profile code: **STDA**

Samples: 5mL Yellow-top SST Blood
2 Urethral/Endocervical Swab with Transport Media for GC Culture.
(Keep at room temperature)

Only genital swab will be accepted for GC Culture

Turnaround Time: 2-3 days

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	3. Gram Stain
2. TPPA (if Syphilis TP Antibody is reactive)	4. Monilia and Trichomonas (Wet Mount)
	5. GC Culture

STD Screen B

Profile code: **STDB**

Samples: 5mL Yellow-top SST Blood
2 Urethral/Endocervical Swab with Transport Media for GC Culture.
(Keep at room temperature)

Only genital swab will be accepted for GC Culture

Turnaround Time: 2-4 days

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	4. Herpes Type II IgG Antibody
2. TPPA (if Syphilis TP Antibody is reactive)	5. Gram Stain
3. Herpes Type I IgG Antibody	6. Monilia and Trichomonas (Wet Mount)
	7. GC Culture

Note: There is cross reaction between Type I and Type II herpes virus antigen. A positive serology (for Type I or Type II) is not an absolute or confirmatory indication of a sexually transmitted disease.

5.18 STD Profile (cont'd)

STD Screen C

Profile code: **STDC**

Samples: 2x 5mL Yellow-top SST Blood
Turnaround Time: 2-4 days

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	3. Herpes Type I IgG Antibody
2. TPPA (if Syphilis TP Antibody is reactive)	4. Herpes Type II IgG Antibody

Note: There is cross reaction between Type I and Type II herpes virus antigen. A positive serology (for Type I or Type II) is not an absolute or confirmatory indication of a sexually transmitted disease.

STD Screen D

Profile code: **STDD**

Samples: 2 Urethral/Endocervical Swab with Transport Media for GC Culture.
[Keep at room temperature]
Only genital swab will be accepted for GC Culture

Turnaround Time: 2-4 days

1. Gram Stain	3. GC Culture
2. Monilia and Trichomonas (Wet Mount)	

STD Screen E

Profile code: **STDE**

Samples: 2 Urethral/Endocervical Swab with Transport Media for GC Culture.
[Keep at room temperature]
Only genital swab will be accepted for GC Culture

Turnaround Time: 10 days

1. Gram Stain	4. Bacterial Culture
2. Monilia and Trichomonas (Wet Mount)	5. Mycoplasma Culture
3. GC Culture	

5.18 STD Profile (cont'd)

STD Screen F

Profile code: **STDF**

Samples: 2 Urethral/Endocervical Swab with Transport Media for GC Culture.
(Keep at room temperature)
20mL Mid-Stream Urine

Only genital swab will be accepted for GC Culture

Turnaround Time: 10 days

1. Urine FEME	5. GC Culture
2. Urine Culture	6. Bacterial Culture
3. Gram Stain	7. Mycoplasma Culture
4. Monilia and Trichomonas (Wet Mount)	

5.19 Thyroid Profile

• Profile Summary Table: Thyroid Screen

Profile Code	TS1	TS8	TS9	TS10	TS11	TSA	TSB	TSC	TSD	TGATG
Immunology Tests										
• Thyroxine, Total (T4)									◆	
• Thyroxine, Free (FRT4)	◆	◆	◆	◆	◆	◆	◆	◆		
• Thyroid Stimulating Hormone	◆	◆	◆	◆	◆		◆	◆	◆	
• Triiodothyronine, Total (T3)			◆			◆	◆	◆		
• T3, Free (FT3)				◆	◆					
• Thyroglobulin										◆
• Anti-Thyroglobulin Antibody		◆	◆	◆			◆			◆
• Anti-Thyroid Peroxidase Antibody (Anti-TPO)		◆	◆	◆						
Samples required										
SST Blood	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

Thyroid Screen 1

Profile code: **TS1**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Thyroxine, Free (FRT4)	2. Thyroid Stimulating Hormone (TSH3)
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Thyroid Screen 8

Profile code: **TS8**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Thyroxine, Free (FRT4)	3. Anti-Thyroglobulin Antibody (ATG)
2. Thyroid Stimulating Hormone (TSH3)	4. Anti-Thyroid Peroxidase Antibody (ATPO)

5.19 Thyroid Profile (cont'd)

Thyroid Screen 9

Profile code: **TSS**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Thyroxine, Free (FRT4)	4. Anti-Thyroglobulin Antibody (ATG)
2. Triiodothyronine, Total (T3)	5. Anti-Thyroid Peroxidase Antibody (ATPO)
3. Thyroid Stimulating Hormone (TSH3)	

Thyroid Screen 10

Profile code: **TS10**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Thyroxine, Free (FRT4)	4. Anti-Thyroglobulin Antibody (ATG)
2. T3, Free (FT3)	5. Anti-Thyroid Peroxidase Antibody (ATPO)
3. Thyroid Stimulating Hormone (TSH3)	

Thyroid Screen 11

Profile code: **TS11**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Thyroxine, Free (FRT4)	3. Thyroid Stimulating Hormone (TSH3)
2. T3, Free (FT3)	

Thyroid Screen A

Profile code: **TSA**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Thyroxine, Free (FRT4)	2. Triiodothyronine, Total (T3)
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5.19 Thyroid Profile (cont'd)

Thyroid Screen B

Profile code: **TSB**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Thyroxine, Free (FRT4)	3. Thyroid Stimulating Hormone (TSH3)
2. Triiodothyronine, Total (T3)	4. Anti-Thyroglobulin Antibody (ATG)

Thyroid Screen C

Profile code: **TSC**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Thyroxine, Free (FRT4)	3. Thyroid Stimulating Hormone (TSH3)
2. Triiodothyronine, Total (T3)	

Thyroid Screen D

Profile code: **TSD**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Thyroxine, Total (T4)	2. Thyroid Stimulating Hormone (TSH3)
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Thyroglobulin Panel

Profile code: **TGATG**

Sample: 5mL Plain or SST Blood

Turnaround Time: Daily

1. Thyroglobulin	2. Anti-Thyroglobulin Antibody (ATG)
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5.20 Tumour Profile

• Profile Summary Table: Tumour Marker

Profile Code	TM1	TM2	TM3	TM4	TM5	TM5	TM6	TM6	TM7	TM7
	F	F	F	F	F	M	F	M	F	M
	TM1	TM2	TM3	TM4						
	M	M	M	M						
Immunology Tests										
• Alpha Fetoprotein	◆	◆	◆	◆					◆	◆
• Carcinoembryonic Antigen	◆	◆	◆	◆	◆	◆			◆	◆
• CA 125 (for female) • Prostate Specific Antigen, Total (for male)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
• CA 19.9			◆	◆	◆	◆	◆	◆	◆	◆
• CA 15.3					◆		◆		◆	
• Human Chorionic Gonadotropin, Total (THCG)		◆	◆	◆		◆		◆		◆
• Squamous Cell Carcinoma Antigen		◆		◆						
• EBV EA+EBNA-1 IgA Antibody							◆	◆	◆	◆
Samples required										
SST Blood	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

Tumour Marker 1 (Female)

Profile code: **TM1 F**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Alpha Fetoprotein 2. Carcinoembryonic Antigen	3. CA 125
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Tumour Marker 1 (Male)

Profile code: **TM1 M**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Alpha Fetoprotein 2. Carcinoembryonic Antigen	3. Prostate Specific Antigen, Total
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5.20 Tumour Profile (cont'd)

Tumour Marker 2 (Female)

Profile code: **TM2 F**

Sample: 5mL Yellow-top SST Blood
Turnaround Time: 2-7 days

1. Alpha Fetoprotein	4. Human Chorionic Gonadotropin, Total (THCG)
2. Carcinoembryonic Antigen	5. Squamous Cell Carcinoma Antigen
3. CA 125	

Tumour Marker 2 (Male)

Profile code: **TM2 M**

Sample: 5mL Yellow-top SST Blood
Turnaround Time: 2-7 days

1. Alpha Fetoprotein	4. Human Chorionic Gonadotropin, Total (THCG)
2. Carcinoembryonic Antigen	5. Squamous Cell Carcinoma Antigen
3. Prostate Specific Antigen, Total	

Tumour Marker 3 (Female)

Profile code: **TM3 F**

Sample: 5mL Yellow-top SST Blood
Turnaround Time: One working day

1. Alpha Fetoprotein	4. Human Chorionic Gonadotropin, Total (THCG)
2. Carcinoembryonic Antigen	5. CA 19.9
3. CA 125	

Tumour Marker 3 (Male)

Profile code: **TM3 M**

Sample: 5mL Yellow-top SST Blood
Turnaround Time: One working day

1. Alpha Fetoprotein	4. Human Chorionic Gonadotropin, Total (THCG)
2. Carcinoembryonic Antigen	5. CA 19.9
3. Prostate Specific Antigen, Total	

5.20 Tumour Profile (cont'd)

Tumour Marker 4 (Female)

Profile code: **TM4 F**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: 2-7 days

1. Alpha Fetoprotein	4. Human Chorionic Gonadotropin, Total (THCG)
2. Carcinoembryonic Antigen	5. CA 19.9
3. CA 125	6. Squamous Cell Carcinoma Antigen

Tumour Marker 4 (Male)

Profile code: **TM4 M**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: 2-7 days

1. Alpha Fetoprotein	4. Human Chorionic Gonadotropin, Total (THCG)
2. Carcinoembryonic Antigen	5. CA 19.9
3. Prostate Specific Antigen, Total	6. Squamous Cell Carcinoma Antigen

Tumour Marker 5 (Female)

Profile code: **TM5 F**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Carcinoembryonic Antigen	3. CA 15.3
2. CA 19.9	4. CA 125

Tumour Marker 5 (Male)

Profile code: **TM5 M**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Carcinoembryonic Antigen	3. Prostate Specific Antigen, Total
2. CA 19.9	4. Human Chorionic Gonadotropin, Total (THCG)

5.20 Tumour Profile (cont'd)

Tumour Marker 6 (Female)

Profile code: **TM6 F**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: 2-4 days

1. CA 125	3. CA 19.9
2. CA 15.3	4. EBV EA+EBNA-1 IgA Antibody

Tumour Marker 6 (Male)

Profile code: **TM6 M**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: 2-3 days

1. Prostate Specific Antigen, Total	3. CA 19.9
2. Human Chorionic Gonadotropin, Total (THCG)	4. EBV EA+EBNA-1 IgA Antibody

Tumour Marker 7 (Female)

Profile code: **TM7 F**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: 2-3 days

1. CA 125	4. Alpha Fetoprotein
2. CA 15.3	5. Carcinoembryonic Antigen
3. CA 19.9	6. EBV EA+EBNA-1 IgA Antibody

Tumour Marker 7 (Male)

Profile code: **TM7 M**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: 2-3 days

1. Prostate Specific Antigen, Total	4. Alpha Fetoprotein
2. Human Chorionic Gonadotropin, Total (THCG)	5. Carcinoembryonic Antigen
3. CA 19.9	6. EBV EA+EBNA-1 IgA Antibody

5.21 Work Permit Profile

• Profile Summary Table: Work Permit

Profile Code	WPA	WPB	WPC	WPD	WPE	WPF	WPAM	WPBM	WPCM	WPDM	WPEM	WPFM
Immunology Tests												
• Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
• TPPA (if Syphilis TP Antibody is reactive)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
• Anti-HIV		◆	◆	◆	◆	◆		◆	◆	◆	◆	◆
• HBsAg				◆	◆	◆				◆	◆	◆
• Hepatitis C Antibody						◆						◆
Haematology Test												
• Malaria Parasites, Blood							◆	◆	◆	◆	◆	◆
Urine Test												
• Pregnancy Test, Urine	◆		◆	◆			◆		◆	◆		
Samples required												
SST Blood	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
EDTA Blood							◆	◆	◆	◆	◆	◆
Urine	◆		◆	◆			◆		◆	◆		

5.21 Work Permit Profile (cont'd)

* For MP test, please indicate patient's **Nationality** on the request form.

* For HIV test, please indicate patient's **Nationality, NRIC No.** (for resident) or **Passport No.** (for non-resident) on the request form. **Specimens accompanied with incomplete forms may be rejected.**

If the patient is a **foreign national**, must indicate whether the patient

(a) is a Singapore permanent resident; OR

(b) holds a work permit, long term social visit pass or a student pass; OR

(c) is applying for a work permit, long term social visit pass, student pass or permanent residency

Equivocal/Reactive results must be confirmed by the National HIV Reference Laboratory (may be subject to additional charges) as stipulated by MOH regulations.

NB: A minimum of 5mL plain/SST blood is required for HIV testing.

Work Permit A

Profile code: **WPA**

Samples: 5mL Yellow-top SST Blood
 20mL Mid-stream Urine

Turnaround Time: One working day

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	3. Pregnancy Test, Urine
2. TPPA (if Syphilis TP Antibody is reactive)	

Work Permit A/MP

Profile code: **WPAM**

Samples: 5mL Yellow-top SST Blood
 3mL Purple-top EDTA Blood
 20mL Mid-stream Urine

Turnaround Time: One working day

1. Work Permit A	2. Malaria Parasites, Blood (MP)
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5.21 Work Permit Profile (cont'd)

Work Permit B

Profile code: **WPB**

Sample: 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	3. Anti-HIV
2. TPPA (if Syphilis TP Antibody is reactive)	

Work Permit B/MP

Profile code: **WPBM**

Samples: 5mL Yellow-top SST Blood

3mL Purple-top EDTA Blood

Turnaround Time: One working day

1. Work Permit B	2. Malaria Parasites, Blood (MP)
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Work Permit C

Profile code: **WPC**

Samples: 5mL Yellow-top SST Blood

20mL Mid-stream Urine

Turnaround Time: One working day

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	3. Anti-HIV
2. TPPA (if Syphilis TP Antibody is reactive)	4. Pregnancy Test, Urine

5.21 Work Permit Profile (cont'd)

Work Permit C/MP

Profile code: **WPCM**

Samples: 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
20mL Mid-stream Urine

Turnaround Time: One working day

1. Work Permit C	2. Malaria Parasites, Blood (MP)
------------------	----------------------------------

Work Permit D

Profile code: **WPD**

Samples: 2x 5mL Yellow-top SST Blood
20mL Mid-stream Urine

Turnaround Time: One working day

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	3. Anti-HIV
2. TPPA (if Syphilis TP Antibody is reactive)	4. Hepatitis B Surface Antigen
	5. Pregnancy Test, Urine

Work Permit D/MP

Profile code: **WPDM**

Samples: 2x 5mL Yellow-top SST Blood
3mL Purple-top EDTA Blood
20mL Mid-stream Urine

Turnaround Time: One working day

1. Work Permit D	2. Malaria Parasites, Blood (MP)
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5.21 Work Permit Profile (cont'd)

Work Permit E

Profile code: **WPE**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	3. Anti-HIV
2. TPPA (if Syphilis TP Antibody is reactive)	4. Hepatitis B Surface Antigen

Work Permit E/MP

Profile code: **WPEM**

Samples: 2x 5mL Yellow-top SST Blood

3mL Purple-top EDTA Blood

Turnaround Time: One working day

1. Work Permit E	2. Malaria Parasites, Blood (MP)
------------------	----------------------------------

Work Permit F

Profile code: **WPF**

Samples: 2x 5mL Yellow-top SST Blood

Turnaround Time: One working day

1. Syphilis TP Antibody (Syphilis RPR & Titre if reactive)	3. Anti-HIV
2. TPPA (if Syphilis TP Antibody is reactive)	4. Hepatitis B Surface Antigen
	5. Hepatitis C Antibody (HCV)

Work Permit F/MP

Profile code: **WPFM**

Samples: 2x 5mL Yellow-top SST Blood

3mL Purple-top EDTA Blood

Turnaround Time: One working day

1. Work Permit F	2. Malaria Parasites, Blood (MP)
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6. CLINICAL TEST LISTING



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6. Clinical Test Listing

FORMAT

Example of how to read the test listing format

Test name		Test Price	Test Price (w GST)
Test code	- Test abbreviated code for reference and order request.		
Sample type	- For general sample types, short name* will be given.		
Test schedule	- Not listed if performed daily (according to outpatient operating hours)		
Turnaround time	- Not listed in completed within 1 day (according to outpatient operating hours)		

E.g.

Homocysteine Test code: HCY Sample type: EDTA blood (Keep specimen cool with ice & send to lab within 1 hour of collection) Test schedule: Tuesday, Friday Turnaround time: 2-4 days	66.00	70.62
--	--------------	--------------

Sample type: General

Short Name*	Vacutainer Users
PLAIN	6mL Red-top PLAIN Tube
SST	5mL Yellow-top SST II Tube
EDTA	3mL Purple-top EDTA Tube
CITRATED	2.7mL Blue-top CITRATED Tube
FLUORIDE	6mL Grey-top FLUORIDE Tube
LITHIUM HEPARIN	4mL Green-top LITHIUM HEPARIN Tube

Sample type: Others

Other sample types required will be specified under the specific test performed.

6.1 Haematology (HAE)

Test Name
ABO & Rh (Blood Group) Test code: ABO Sample type: EDTA blood
APT's Test Test code: APT Sample type: Sample of vomitus, gastric washout or bloodstained discharges from newborn collected in a clean container
Bleeding Time Test code: BT Sample type: Send patient to lab for procedure
Cold Agglutinins Test code: COA Sample type: PLAIN blood Turnaround time: 1-2 days
Cryoglobulin Test code: CRYO Sample type: PLAIN or SST blood Turnaround time: 3 days
D-Dimer Test code: DD Sample type: CITRATED blood
Differential Count Test code: DIFF Sample type: EDTA blood
Direct Coombs Test Test code: DCT Sample type: EDTA blood
Eosinophil Count, Absolute, Blood Test code: EOC Sample type: EDTA blood
Erythrocyte Sedimentation Rate Test code: ESR Sample type: EDTA blood
Fibrinogen Test code: FIB Sample type: CITRATED blood

6.1 Haematology (HAE) [cont'd]

Test Name
<p>Full Blood Count - includes WBC, DIFF, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, MPV & PLT</p> <p>Test code: FBC</p> <p>Sample type: EDTA blood</p>
<p>Full Blood Count with PBF - WBC, DIFF, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, MPV, PLT & PBF</p> <p>Test code: HO13</p> <p>Sample type: EDTA blood</p>
<p>Haematocrit (Packed Cell Volume)</p> <p>Test code: HCT</p> <p>Sample type: EDTA blood</p>
<p>Haemoglobin</p> <p>Test code: HGB</p> <p>Sample type: EDTA blood</p>
<p>Haemoglobin Electrophoresis</p> <p>Test code: HBEL</p> <p>Sample type: EDTA blood</p> <p>Turnaround time: 1-2 days</p>
<p>Haemoglobin H Inclusion Bodies</p> <p>Test code: HBH</p> <p>Sample type: EDTA blood</p>
<p>Haemogram - includes WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, MPV & PLT</p> <p>Test code: HGM</p> <p>Sample type: EDTA blood</p>
<p>Lupus Anticoagulant</p> <p>Test code: LUPAC</p> <p>Sample type: CITRATED blood</p> <p>Turnaround time: Daily [delayed if confirmatory test needed]</p>
<p>Lupus Erythematosus (L.E.) Cells</p> <p>Test code: LE</p> <p>Sample type: 8-10mL blood in green-cap sodium heparin tube</p> <p>Turnaround time: 1-2 days</p>
<p>Malaria Parasites, Blood</p> <p>Test code: MP</p> <p>Sample type: EDTA blood (Please indicate Nationality of patient on the request form)</p>

6.1 Haematology (HAE) [cont'd]

Test Name
Microfilaria Test code: MF Sample type: EDTA blood
Partial Thromboplastin Time, Activated Test code: PTT Sample type: CITRATED blood
Peripheral Blood Film Test code: PBF Sample type: EDTA blood
Platelet Count Test code: PLT Sample type: EDTA blood
Prothrombin Time, Venous Blood Test code: PT Sample type: CITRATED blood
Prothrombin Time (with INR), Venous Blood Test code: PT/INR Sample type: CITRATED blood
Red Blood Cell Count Test code: RBC Sample type: EDTA blood
Red Cell Indices (MCV, MCH, MCHC) Test code: INDICES Sample type: EDTA blood
Reticulocyte Count Test code: RET Sample type: EDTA blood
Thrombin Clotting Time Test code: TCT Sample type: CITRATED blood
White Blood Cell Count Test code: WBC Sample type: EDTA Blood

6.2 Biochemistry (BIO)

Test Name
<p>Adjusted Calcium Test code: ACA Sample Type: PLAIN or SST blood</p>
<p>Alanine Aminotransferase (ALT/SGPT) Test code: ALT Sample type: PLAIN or SST blood</p>
<p>Albumin Test code: ALB Sample type: PLAIN or SST blood</p>
<p>Albumin/Globulin Ratio Test code: A/G Sample type: PLAIN or SST blood</p>
<p>Alkaline Phosphatase, Heat Stable Test code: ALPHS Sample type: PLAIN or SST blood</p>
<p>Alkaline Phosphatase, Total Test code: ALPAMP Sample type: PLAIN or SST blood</p>
<p>Ammonia Test code: NH3 Sample type: 4mL lithium heparin blood (Please keep specimen cool with ice & deliver to lab immediately)</p>
<p>Amylase Test code: AMYLAS Sample type: PLAIN or SST blood</p>
<p>Amylase, Urine Test code: U AMYL Sample type: Random urine specimen</p>
<p>Apolipoprotein A Test code: APOA Sample type: PLAIN or SST blood (Patient should fast 12 hours prior to specimen taking)</p>
<p>Apolipoprotein B Test code: APOB Sample type: PLAIN or SST blood (Patient should fast 12 hours prior to specimen taking)</p>

6.2 Biochemistry (BIO) (cont'd)

Test Name
<p>Aspartate Aminotransferase (AST/SGOT) Test code: AST Sample type: PLAIN or SST blood</p>
<p>Bicarbonate Test code: CO2 Sample type: PLAIN or SST blood</p>
<p>Bilirubin, Direct (conjugated) Test code: DBIL Sample type: PLAIN or SST blood (Minimise specimen exposure to light)</p>
<p>Bilirubin, Indirect (unconjugated) Test code: BIL I Sample type: PLAIN or SST blood (Minimise specimen exposure to light)</p>
<p>Bilirubin, Direct and Indirect Test code: BIL D/I Sample type: PLAIN or SST blood (Minimise specimen exposure to light)</p>
<p>Bilirubin, Neonatal Test code: BIL N Sample type: Collect 2 or 3 capillary tubes (heparinised) of heelpricked blood (Minimise specimen exposure to light)</p>
<p>Bilirubin, Total Test code: TBIL Sample type: PLAIN or SST blood (Minimise specimen exposure to light)</p>
<p>Calcium Test code: CA Sample type: PLAIN or SST blood (Please obtain specimen with minimum venous occlusion)</p>
<p>Calcium Ionised Test code: CAI Sample type: PLAIN or lithium heparinised blood (Please keep specimen cool with ice & send to lab immediately)</p>

6.2 Biochemistry (BIO) [cont'd]

Test Name
<p>Calcium, Urine Test code: U CA Sample type: 20mL random urine</p>
<p>Calcium, Urine 24hr Test code: U 24CA Sample type: 24 hr urine collection</p>
<p>Ceruloplasmin Test code: CER Sample type: PLAIN or SST blood</p>
<p>Chloride Test code: CL Sample type: PLAIN or SST blood</p>
<p>Chloride, Urine Test code: U CLR Sample type: 20mL random urine</p>
<p>Chloride, Urine 24hr Test code: U 24CL Sample type: 24 hr urine collection</p>
<p>Cholesterol, HDL Test code: HDL D2 Sample type: PLAIN or SST blood (Patient should fast 12 hours prior to specimen taking)</p>
<p>Cholesterol, LDL Test code: LDL Sample type: PLAIN or SST blood (Patient should fast 12 hours prior to specimen taking)</p>
<p>Cholesterol, Total Test code: CHOL Sample type: PLAIN or SST blood (Patient should fast 12 hours prior to specimen taking)</p>
<p>Complement C3 Test code: C3 Sample type: PLAIN or SST blood (Please send specimen to lab immediately)</p>
<p>Complement C4 Test code: C4 Sample type: PLAIN or SST blood (Please send specimen to lab immediately)</p>

6.2 Biochemistry (BIO) (cont'd)

Test Name
<p>Creatine Kinase Test code: CKNAC Sample type: PLAIN or SST blood</p>
<p>Creatine Kinase-MB Test code: CKMB Sample type: PLAIN or SST blood</p>
<p>Creatinine Test code: CREAT Sample type: PLAIN or SST blood</p>
<p>Creatinine, Urine Test code: U CREG Sample type: 20mL random urine</p>
<p>Creatinine Clearance Test Test code: CCT Sample type: PLAIN or SST blood & 24 hour urine (Please indicate height and weight of patient)</p>
<p>Fructosamine Test code: FRUCTO Sample type: PLAIN or SST blood</p>
<p>Gamma-Glutamyltransferase Test code: GGT Sample type: PLAIN or SST blood</p>
<p>Globulin Test code: GLO Sample type: PLAIN or SST blood</p>
<p>Glucose, 2hr Post Prandial Test code: GLU P Sample type: Fluoride blood to be taken 2 hr AFTER food (Please send specimen to lab immediately)</p>
<p>Glucose, Fasting Test code: GLUCO Sample type: Fluoride blood (Patient should fast 12 hours prior to specimen taking - Please send specimen to lab immediately)</p>

6.2 Biochemistry (BIO) [cont'd]

Test Name
<p>Glucose, Random, non-fasting Test code: GLU R Sample type: Fluoride blood (Please send specimen to lab immediately)</p>
<p>Glucose Tolerance Test Test code: GTT OHR fasting sample: 6mL Grey-top fluoride blood and 20mL random urine 1HR sample: 6mL Grey-top fluoride blood and 20mL random urine 2HR sample: 6mL Grey-top fluoride blood and 20mL random urine</p>
<p>Glucose Tolerance Test (2 specimens-blood only) Test code: GTT2 Sample type: Fluoride blood (Fasting & 2nd hour specimen)</p>
<p>Glucose-6-Phosphate-Dehydrogenase, Screening (G6PD Screening) Test code: G6 Sample type: EDTA blood</p>
<p>Glycated Hb Test code: HBA1C Sample type: EDTA blood</p>
<p>Homocysteine Test code: HCY Sample type: EDTA blood (Keep specimen cool with ice & send to lab within 1 hour of collection) Test schedule: Tuesday, Friday Turnaround time: 2-4 days</p>
<p>Iron Test code: IRON Sample type: PLAIN or SST blood</p>
<p>Iron Binding Capacity, Total Test code: TIBC Sample type: PLAIN or SST blood</p>
<p>Lactate Dehydrogenase Test code: LDLP Sample type: PLAIN or SST blood</p>

6.2 Biochemistry (BIO) (cont'd)

Test Name
<p>Lactic Acid, Plasma Test code: LA Sample type: 2mL sodium fluoride/potassium oxalate blood (Keep specimen cool with ice & send to lab immediately)</p>
<p>Magnesium Test code: MG Sample type: PLAIN or SST blood</p>
<p>Microalbumin, Urine 24hr Test code: U 24MA Sample type: 24 hr urine collection</p>
<p>Microalbumin, Urine Random Test code: U ALB Sample type: 20mL random urine</p>
<p>Microalbumin/Creatinine Ratio, Urine Test code: U ALB/CRE Sample type: 20mL random urine</p>
<p>Osmolality Test code: OSMO Sample type: PLAIN or SST blood</p>
<p>Osmolality, Urine Test code: U OSMO Sample type: Random urine collection</p>
<p>Phosphate Test code: IPHOS Sample type: PLAIN or SST blood</p>
<p>Phosphate, Urine 24hr Test code: U 24PO4 Sample type: 24 hr urine collection</p>
<p>Potassium Test code: K Sample type: PLAIN or SST blood</p>
<p>Potassium, Urine Test code: U K Sample type: 20mL random urine</p>

6.2 Biochemistry (BIO) [cont'd]

Test Name
<p>Potassium, Urine 24hr Test code: U 24K Sample type: 24 hr urine collection</p>
<p>Procalcitonin Test code: PCT Sample type: PLAIN or SST blood</p>
<p>Protein Electrophoresis Test code: EPS Sample type: PLAIN or SST blood Test schedule: Thursday Turnaround time: 2-7 days</p>
<p>Protein, Total Test code: TPRO2 Sample type: PLAIN or SST blood</p>
<p>Protein, Urine Test code: U TPQ Sample type: 20mL random urine</p>
<p>Protein, Urine 24hr Test code: U 24TP Sample type: 24 hr urine collection</p>
<p>Protein/Creatinine Ratio, Total, Urine Test code: U TP/CRE Sample type: 20mL random urine</p>
<p>Sodium Test code: NA Sample type: PLAIN or SST blood</p>
<p>Sodium, Urine Test code: U NA Sample type: 20mL random urine</p>
<p>Sodium, Urine 24hr Test code: U 24NA Sample type: 24 hr urine collection</p>
<p>Transferrin Test code: TRANSF Sample type: PLAIN or SST blood</p>

6.2 Biochemistry (BIO) (cont'd)

Test Name
<p>Triglycerides Test code: TRIG Sample type: PLAIN or SST blood (Patient should fast 12 hours prior to specimen taking)</p>
<p>Troponin T, High Sensitive Test code: HSTNT Sample type: PLAIN or SST blood</p>
<p>Urea Test code: UREA Sample type: PLAIN or SST blood</p>
<p>Urea, Urine Test code: U UREA Sample type: 20mL random urine</p>
<p>Urea, Urine 24hr Test code: U 24UREA Sample type: 24 hr urine collection</p>
<p>Urea/Creatinine Ratio Test code: UREA/CREAT Sample Type: PLAIN or SST blood</p>
<p>Uric Acid Test code: UA Sample type: PLAIN or SST blood</p>
<p>Uric Acid, Urine Test code: U UA Sample type: 20mL random urine *No established reference range</p>
<p>Uric Acid, Urine 24hr Test code: U 24UA Sample type: 24 hr urine collection</p>

6.3 Immunology and Serology (IMM)

Test Name
<p>Alpha Fetoprotein Test code: AFP Sample type: PLAIN or SST blood</p>
<p>Alpha Fetoprotein, Amniotic Fluid Test code: AFPA Sample type: 3mL amniotic fluid specimen (Please indicate gestational weeks)</p>
<p>Alpha Fetoprotein, Maternal Serum (Pregnancy) Test code: AFPP Sample type: PLAIN or SST blood (Please indicate gestational weeks)</p>
<p>Amoebic Antibody Test Test code: AA Sample Type: 5mL PLAIN or SST blood</p>
<p>Anti-Deoxyribonucleic Acid (ds-DNA) Test code: DNA Sample type: PLAIN or SST blood Test schedule: Monday, Wednesday, Friday Turnaround time: 2-3 days</p>
<p>Anti-HIV1/HIV2 (Human Immunodeficiency Virus) Test code: HIV Sample type: PLAIN or SST blood (minimum 5mL of blood) Notes:</p> <ol style="list-style-type: none"> 1. Patient's Nationality, NRIC No. (for resident) or Passport No. (for non-resident) must be indicated on the request form to avoid rejection. 2. If the patient is a foreign national, must indicate whether the patient <ol style="list-style-type: none"> (a) is a Singapore permanent resident; OR (b) holds a work permit, long term social visit pass or a student pass; OR (c) is applying for a work permit, long term social visit pass, student pass or permanent residency 3. Equivocal/Reactive results must be confirmed by the National HIV Reference Laboratory (subject to additional charges) as stipulated by MOH regulations.

6.3 Immunology and Serology (IMM) [cont'd]

Test Name
<p>Anti-Nuclear Antibody Test code: ANA Sample type: PLAIN or SST blood Test schedule: Monday, Wednesday, Friday Turnaround time: 2-3 days</p>
<p>Anti-Streptolysin-O Titre Test code: ASOT Sample type: PLAIN or SST blood</p>
<p>Anti-Thyroglobulin Antibody Test code: ATG Sample type: PLAIN or SST blood</p>
<p>Anti-TPO (Thyroid Peroxidase Autoantibody) Test code: ATPO Sample type: PLAIN or SST blood</p>
<p>Beta-2 Microglobulin Test code: B2M Sample type: PLAIN or SST blood Test schedule: Tuesday, Friday Turnaround time: 2-4 days</p>
<p>Brucellosis Agglutinins Test code: BRA Sample type: PLAIN or SST blood</p>
<p>Cancer Antigen 125 (CA 125) Test code: CA125II Sample type: PLAIN or SST blood</p>
<p>Cancer Antigen 15.3 (CA 15.3) Test code: CA153 Sample type: PLAIN or SST blood</p>
<p>Cancer Antigen 19.9 (CA 19.9) Test code: CA199 Sample type: PLAIN or SST blood</p>
<p>Carcinoembryonic Antigen (CEA) Test code: CEA Sample type: PLAIN or SST blood</p>

6.3 Immunology and Serology (IMM) (cont'd)

Test Name
<p>CMV IgG (Cytomegalovirus IgG Antibody) Test code: CMVG Sample type: PLAIN or SST blood</p>
<p>CMV IgM (Cytomegalovirus IgM Antibody) Test code: CMVM Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>C-Reactive Protein Test code: CRP Sample type: PLAIN or SST blood</p>
<p>C-Reactive Protein, High Sensitive Test code: HSCR P Sample type: PLAIN or SST blood (Fasting sample preferred)</p>
<p>Dengue Blot Test (IgG & IgM Antibody) Test code: DEN GM Sample type: PLAIN or SST blood (Please indicate patient's Address on the request form)</p>
<p>Dengue NS1 Antigen Test Test code: DEN NS1AG Sample type: PLAIN or SST blood (Please indicate patient's Address on the request form)</p>
<p>Epstein-Barr Virus (EBV) Antibody - EBV EA+EBNA-1 IgA Test code: EBV IGA Sample type: PLAIN or SST blood Test schedule: Monday, Wednesday, Friday Turnaround time: 2-3 days</p>
<p>Ferritin Test code: FER Sample type: PLAIN or SST blood</p>
<p>Folic Acid, Serum Test code: FOLATEBA Sample type: PLAIN or SST blood (minimise exposure to light)</p>
<p>Hepatitis A Total Antibody (Anti-HAV Total) Test code: AHAVT Sample type: PLAIN or SST blood</p>

6.3 Immunology and Serology (IMM) [cont'd]

Test Name
<p>Hepatitis A IgM Antibody (Anti-HAV IgM) Test code: HAVM Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Hepatitis B Core Total Antibody (Anti-HBc Total) Test code: AHBCT Sample type: PLAIN or SST blood</p>
<p>Hepatitis B Core IgM Antibody (Anti-HBc IgM) Test code: AHBCM Sample type: PLAIN or SST blood</p>
<p>Hepatitis B e Antibody (HBeAb) Test code: HBEAB Sample type: PLAIN or SST blood</p>
<p>Hepatitis B e Antigen (HBeAg) Test code: HBEAG Sample type: PLAIN or SST blood</p>
<p>Hepatitis B Surface Antibody (HBsAb) Test code: AHBS Sample type: PLAIN or SST blood</p>
<p>Hepatitis B Surface Antigen (HBsAg) Test code: HBS Sample type: PLAIN or SST blood</p>
<p>Hepatitis B Surface Antigen & Antibody Test code: AGAB Sample type: PLAIN or SST blood</p>
<p>Hepatitis C Antibody (Anti-HCV) Test code: HCV Sample type: PLAIN or SST blood</p>
<p>Herpes Simplex Type I IgG Antibody Test code: HS1G Sample type: PLAIN or SST blood Test schedule: Tuesday, Friday Turnaround time: 2-4 days Note: There is cross reaction between Type I and Type II herpes virus antigen. A positive serology (for Type I or Type II) is not an absolute or confirmatory indication of a sexually transmitted disease.</p>

6.3 Immunology and Serology (IMM) (cont'd)

Test Name
<p>Herpes Simplex Type II IgG Antibody Test code: HS2G Sample type: PLAIN or SST blood Test schedule: Tuesday, Friday Turnaround time: 2-4 days Note: There is cross reaction between Type I and Type II herpes virus antigen. A positive serology (for Type I or Type II) is not an absolute or confirmatory indication of a sexually transmitted disease.</p>
<p>Herpes Type I & II IgG Antibody Test code: HS1/2G Sample type: PLAIN or SST blood Test schedule: Tuesday, Friday Turnaround time: 2-4 days Note: There is cross reaction between Type I and Type II herpes virus antigen. A positive serology (for Type I or Type II) is not an absolute or confirmatory indication of a sexually transmitted disease.</p>
<p>Immunoglobulin IgA Test code: IGA Sample type: PLAIN or SST blood</p>
<p>Immunoglobulin IgE Test code: IGE Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Immunoglobulin IgG Test code: IGG Sample type: PLAIN or SST blood</p>
<p>Immunoglobulin IgM Test code: IGM Sample type: PLAIN or SST blood</p>
<p>Mitochondrial Antibody Test code: MCA Sample type: PLAIN or SST blood Test schedule: Wednesday Turnaround time: 2-7 days</p>

6.3 Immunology and Serology (IMM) [cont'd]

Test Name
<p>Monotest Test code: MONOTEST Sample type: PLAIN or SST blood</p>
<p>Mycoplasma Antibody Test code: MYCO AB Sample type: PLAIN or SST blood</p>
<p>Parietal Cell Antibody Test code: PCAB Sample type: PLAIN or SST blood Test schedule: Wednesday Turnaround time: 2-7 days</p>
<p>Prostate Specific Antigen, Free - includes Free PSA, Total PSA & PSA Ratio Test code: FREE PSA Sample type: PLAIN or SST blood</p>
<p>Prostate Specific Antigen, Total Test code: PSA Sample type: PLAIN or SST blood</p>
<p>Rheumatoid Arthritis Factor, Screening Test code: RF Sample type: PLAIN or SST blood</p>
<p>Rubella IgG Antibody Test code: RUBG Sample type: PLAIN or SST blood</p>
<p>Rubella IgM Antibody Test code: RUBM Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Smooth Muscle Antibody Test code: SMA Sample type: PLAIN or SST blood Test schedule: Wednesday Turnaround time: 2-7 days</p>

6.3 Immunology and Serology (IMM) (cont'd)

Test Name
<p>Squamous Cell Carcinoma Antigen Test code: SCC Sample type: PLAIN or SST blood Test schedule: Wednesday Turnaround time: 2-7 days</p>
<p>Syphilis TP Antibody Test Test code: VD Sample type: PLAIN or SST blood</p>
<p>T3, Free Test code: FT3 Sample type: PLAIN od SST blood</p>
<p>T3, Total (Triiodothyronine) Test code: T3 Sample type: PLAIN or SST blood</p>
<p>Thyroxine, Free (Free T4) Test code: FRT4 Sample type: PLAIN or SST blood</p>
<p>Thyroxine, Total (Total T4) Test code: T4 Sample type: PLAIN or SST blood</p>
<p>Toxoplasma IgG Antibody (TOXO IgG) Test code: TOXG Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Toxoplasma IgM Antibody (TOXO IgM) Test code: TOXM Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Treponema Pallidum Particle Agglutination Test (TPPA) Test code: TPPA Sample type: PLAIN or SST blood</p>
<p>Vitamin B12 Test code: VB12 Sample type: PLAIN or SST blood</p>

6.3 Immunology and Serology (IMM) [cont'd]

Test Name
<p>Weil Felix Test Test code: WFT Sample type: PLAIN or SST blood Turnaround time: 1-2 days</p>
<p>Widal Test Test code: WIT Sample type: PLAIN or SST blood Turnaround time: 1-2 days</p>
<p>Widal & Weil Felix Test Test code: WWF Sample type: PLAIN or SST blood Turnaround time: 1-2 days</p>

6.4 Hormone (HOR)

Test Name
<p>Cortisol Test code: COR Sample type: PLAIN or SST blood</p>
<p>Estradiol Test code: E26 Sample type: PLAIN or SST blood</p>
<p>Follicle Stimulating Hormone Test code: FSH Sample type: PLAIN or SST blood</p>
<p>Human Chorionic Gonadotropin, Total (Total HCG) Test code: THCG Sample type: PLAIN or SST blood</p>
<p>Interstitial Cell Stimulating Hormone (ICSH) Test code: LH M Sample type: PLAIN or SST blood</p>
<p>Luteinising Hormone Test code: LH F Sample type: PLAIN or SST blood (In Male, LH is known as Interstitial Cell Stimulating Hormone, ICSH)</p>

6.4 Hormone (HOR) (cont'd)

Test Name
<p>Progesterone Test code: PRGE Sample type: PLAIN or SST blood</p>
<p>Prolactin Test code: PRL Sample type: PLAIN or SST blood (Patient is required to rest 1/2 hour before blood taking)</p>
<p>Sex Hormone Binding Globulin Test code: SHBG Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Testosterone, Total Test code: TSTO Sample type: PLAIN or SST blood</p>
<p>Thyroid Stimulating Hormone Test code: TSH3 Sample type: PLAIN or SST blood</p>

6.5 Therapeutic Drug Monitoring (TDM)

Test Name
<p>Acetaminophen (Paracetamol) Test code: ACE Sample type: PLAIN or SST blood</p>
<p>Acetylsalicylic Acid (Aspirin) Test code: SAL Sample type: PLAIN or SST blood</p>
<p>Amikacin Peak (Post) Test code: AMI P Sample type: PLAIN or SST blood (To be taken 1 hr AFTER IM dose)</p>
<p>Amikacin Trough (Pre) Test code: AMI T Sample type: PLAIN or SST blood (To be taken immediately BEFORE the next scheduled dose)</p>

6.5 Therapeutic Drug Monitoring (TDM) (cont'd)

Test Name
Carbamazepine (Tegretol) Test code: CARB Sample type: PLAIN or SST blood
Cyclosporine Monoclonal, Parent Test code: CYAP Sample type: EDTA blood (Trough sample is preferred)
Digoxin Test code: DIG Sample type: PLAIN or SST blood
Gentamicin Peak (Post) Test code: GEN P Sample type: PLAIN or SST blood (To be taken 1 hr AFTER IM dose)
Gentamicin Trough (Pre) Test code: GEN T Sample type: PLAIN or SST blood (To be taken immediately BEFORE the next scheduled dose)
Phenobarbital Test code: PHENO Sample type: PLAIN or SST blood
Phenytoin (Dilantin) Test code: PHENY Sample type: PLAIN or SST blood
Primidone (Mysoline) Test code: PRIM Sample type: PLAIN or SST blood
Tacrolimus Test code: TAC Sample type: EDTA blood
Theophylline Test code: THEO Sample type: PLAIN or SST blood
Valproic Acid (Epilim) Test code: VALP Sample type: PLAIN or SST blood

6.5 Therapeutic Drug Monitoring (TDM) (cont'd)

Test Name
<p>Vancomycin Peak (Post) Test code: VAN P Sample type: PLAIN or SST blood (To be taken 1/2 hr AFTER an hour's intravenous infusion)</p>
<p>Vancomycin Trough (Pre) Test code: VAN T Sample type: PLAIN or SST blood (To be taken immediately BEFORE the next scheduled dose)</p>

6.6 Screening for Drug Abuse (DOA)

Random Urine: Collect 20mL mid-stream urine in sterile urine container

Test Name
<p>Cannabinoids, Urine Test code: U THC Sample type: 20mL random urine</p>
<p>Cocaine, Urine Test code: U COCAINE Sample type: 20mL random urine</p>
<p>Cotinine, Urine Test code: U COT Sample type: 20mL random urine</p>
<p>Opiates, Urine Test code: U MOP Sample type: 20mL random urine</p>
<p>Drug Panel 10 Urine Test code: UDT10 Sample type: 20mL random urine</p>

6.7 Body Fluids (BF)

Collect fluids in sterile universal container
Please indicate source/type of body fluids

Test Name
<p>Bacterial Antigen Test code: BAG Sample type: Collect CSF & other body fluids (at least 0.5mL), serum (0.5mL) or urine specimen (10mL) in sterile, screw capped container</p>
<p>Body Fluid Analysis, CSF (Cerebrospinal Fluid) Test code: CSF FEME Sample type: Collect CSF in a sterile, screw capped container</p>
<p>Body Fluid Analysis, CSF for Cell Count Only Test code: CSF WC Sample type: Collect CSF in a clean, screw capped container</p>
<p>Body Fluid Analysis, Other Fluids (except Joint Fluid) Test code: BF FEME Sample type: Collect other body fluids in a clean, screw capped container (Please indicate source/type of the fluid)</p>
<p>Body Fluid Analysis, Other Fluids for Differential Cell Count Only Test code: BF DIFF Sample type: Collect other body fluids in a clean, screw capped container (Please indicate source/type of the fluid)</p>
<p>Body Fluid Analysis, Other Fluids for White Blood Count Only Test code: BF TW Sample type: Collect other body fluids in a clean, screw capped container (Please indicate source/type of the fluid)</p>
<p>Body Fluid Analysis, Specific Gravity Test code: BF SG Sample type: Collect other body fluids in a clean, screw capped container (Please indicate source/type of the fluid)</p>
<p>Body Fluid Analysis, Synovial or Joint Fluid Test code: BF JOINT Sample type: Collect other body fluids in a clean, screw capped container (Please indicate source/type of the fluid)</p>

6.7 Body Fluids (BF) (cont'd)

Collect fluids in sterile universal container
Please indicate source/type of body fluids

Test Name
<p>Body Fluid for Crystals Identification Only Test code: BF CRY5 Sample type: Collect body fluids in a clean, screw capped container (Please indicate source/type of the fluid)</p>
<p>Body Fluid for Fat Globules Test code: BF FAT Sample type: Collect body fluids in a clean, screw capped container (Please indicate source/type of the fluid)</p>
<p>Body Fluid PH Test code: BF PH Sample type: Collect other body fluids in a clean, screw capped container (Please indicate source/type of the fluid)</p>

6.8 Seminal Fluid (SF)

Collect semen in sterile universal container

Test Name
<p>Seminal Fluid, Fructose Test code: SA FRUTOSE Sample type: 2mL seminal fluid</p>
<p>Sperm Count, after vasectomy Test code: SPERM CT Sample type: Patient to collect specimen directly into a clean container provided by lab (Patient should abstain from sexual activity for at least 2 days prior to specimen collection)</p>

6.9 Urine

Random Urine: Collect 20mL mid-stream urine in sterile urine container

Test Name
<p>Dysmorphic RBC/Urine Phase Contrast Microscopy Test code: DYS RBC Sample type: 20mL random urine (Please send specimen to lab immediately)</p>
<p>Pregnancy Test, Urine Test code: U PREG Sample type: 20mL random urine (Preferably early morning sample)</p>
<p>Urine Bence Jones Protein Test code: U BJP Sample type: 20mL random urine</p>
<p>Urine Bile and Bile Pigment Test code: U BBP Sample type: 20mL random urine</p>
<p>Urine Fat Globules Test code: U FAT Sample type: 20mL random urine</p>
<p>Urine, Full Examination & Microscopic Examination (Urinalysis) Test code: U FEME Sample type: 20mL mid-stream urine</p>
<p>Urine Haemosiderin Test Test code: U HES Sample type: 20mL random urine</p>
<p>Urine, Labstix Examination Test code: U STIX Sample type: 20mL mid-stream urine</p>
<p>Urine, Microscopic Examination Test code: U MIC Sample type: 20mL mid-stream urine</p>
<p>Urine Sugar Test code: U SUGAR Sample type: 20mL mid-stream urine</p>

6.10 Stool

Fresh Stool: Collect a small scoop of stool sample in clean stool container with attached spatula

Test Name
<p>Clostridium Difficile Toxins A & B Test code: CDAB Sample Type: Collect a small scoop of stool in a screw cap container with the attached spatula</p>
<p>Occult Blood Test code: OB Sample type: Collect a small scoop of stool in a screw capped container with the attached spatula (Patient should refrain from red meat and aspirin for 3 days prior to specimen collection)</p>
<p>Occult Blood (Immunological) Test code: OBI Sample type: Collect a small scoop of stool in a screw capped container with the attached spatula</p>
<p>Rotavirus Antigen Test code: ROTA Sample type: Collect a small scoop of stool in a screw capped container with the attached spatula</p>
<p>Stool for Fat Globules Test code: S FAT Sample type: Collect a small scoop of stool in a screw cap container with the attached spatula</p>
<p>Stool for ova, cysts and parasites (Concentration Method) Test code: SOCP Sample type: Collect a small scoop of stool (or about 2mL for watery stool) in a screw cap container with the attached spatula</p>

6.11 Microbiology (MIC)

Collect sample in sterile container or sterile swab with transport media

* **Please indicate source/type of specimen**

Test Name
<p>Culture, Blood Fungal Test code: C BCFUNGUS Sample type: 5-10mL blood in White-cap BACTEC Mycolytic bottle For paediatric patients: 1-3mL blood in White-cap BACTEC Mycolytic bottle Turnaround time: Positive results will be communicated by phone For negative cases, final report is given after 28 days</p>
<p>Culture, Fungus Test code: C FUNGUS Sample type: Collect specimen in a sterile, screw capped container or use a sterile swab with transport media * Please indicate source of the specimen Turnaround time: Positive results will be reported as and when Negative cases - stool & HVS: 7 days, CSF: 14 days, others: 28 days</p>
<p>Culture, Mycoplasma Homonis Test code: C MYCOH Sample type: Collect specimen in a sterile, screw capped container or use a sterile swab with transport media Turnaround time: Positive results will be reported as and when Negative cases are reported in 10 days</p>
<p>Culture and Sensitivity, Abscess Test code: C ABSCESS Sample type Collect specimen in a sterile swab with transport media or a sterile, screw capped container * Please indicate source of the specimen Turnaround time: 2-4 days</p>

6.11 Microbiology (MIC) (cont'd)

Collect sample in sterile container or sterile swab with transport media

* **Please indicate source/type of specimen**

Test Name
<p>Culture and Sensitivity, Blood Test code: C BCA Sample type: 5-10mL blood in Grey-cap BACTEC PLUS (aerobic) bottle AND 5-10mL blood in Orangecap BACTEC PLUS (anaerobic) bottle For paediatric patients: 1-3mL blood in Pink-cap BACTEC PLUS bottle Note: BACTEC PLUS blood culture bottles should be kept at room temperature when not in use Turnaround time: Positive results will be communicated by phone For negative cases, a preliminary report is given after 48 hours Final report is given after 5 days incubation</p>
<p>Culture and Sensitivity, Body Fluids Test code: C BF Sample type: Collect specimen in a sterile, screw capped container * Please indicate source of the specimen Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Bone Marrow Test code: C BM Sample type: Collect 1-3mL of bone marrow in Grey-cap BACTEC PLUS bottle or in a sterile, screw capped container Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Campylobacter Test code: C CAMP Sample type: Collect a small scoop of stool in a clean, screw capped container with the attached spatula Turnaround time: 2-3 days</p>
<p>Culture and Sensitivity, Catheter Test code: C CATH Sample type: Collect specimen in a sterile, screw capped container * Please indicate source of the specimen Turnaround time: 2-4 days</p>

6.11 Microbiology (MIC) (cont'd)

Collect sample in sterile container or sterile swab with transport media

* Please indicate source/type of specimen

Test Name
<p>Culture and Sensitivity, Cerebrospinal Fluid Test code: C CSF Sample type: Collect 1-2mL of CSF in a sterile, screw capped container Turnaround time: Positive results will be communicated by phone Negative results 2-4 days</p>
<p>Culture and Sensitivity, Cord Blood Test code: C CORD Sample type: Collect specimen in a sterile swab with transport media Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Ear Test code: C EAR Sample type: Collect specimen in a sterile swab with transport media Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Eye Test code: C EYE Sample type: Collect specimen in a sterile swab with transport media Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Genital Tract specimen Test code: C GENITAL Sample type: Collect specimen in a sterile swab with transport media or a sterile, screw capped container * Please indicate source of the specimen Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, MRSA (Methicillin Resistant Staphylococcus Aureus) Test code: C MRSA Sample type: Collect specimen in a sterile, screw capped container or use a sterile swab with transport media * Please indicate source of the specimen Turnaround time: 2-3 days Positive results will be communicated by phone</p>

6.11 Microbiology (MIC) (cont'd)

Collect sample in sterile container or sterile swab with transport media

* **Please indicate source/type of specimen**

Test Name
<p>Culture and Sensitivity, Neisseria Gonorrhoea Test code: C GC Sample type: Collect endocervical/urethral sample using a sterile swab with transport media Keep at room temperature Dry swab not acceptable Specimens from other sites of the genital tract are not suitable Turnaround time: 2-4 days Only genital swab will be accepted for GC Culture</p>
<p>Culture and Sensitivity, Pus Test code: C PUS Sample type: Collect minimum 1mL of purulent fluid in a sterile, screw capped container * Please indicate source of the specimen Swabs should only be used when it is not possible to obtain the required volume of purulent fluid Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Sputum / Lower Respiratory Test code: C LOW RESP Sample type: Collect approximately 2mL of sputum in a sterile, screw capped container (Early morning specimens are the best) Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Stool - includes culture for salmonella, shigella & vibrio cholera Test code: C ST Sample type: Collect a small scoop of stool (or about 2mL of watery stool) in a clean, screw capped container with the attached spatula Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Stool, Paediatric - includes culture for salmonella, shigella, vibrio and campylobacter Test code: C STP Sample type: Collect a small scoop of stool (or about 2mL of watery stool) in a clean, screw capped container with the attached spatula Turnaround time: 2-4 days</p>

6.11 Microbiology (MIC) [cont'd]

Collect sample in sterile container or sterile swab with transport media

* **Please indicate source/type of specimen**

Test Name
<p>Culture and Sensitivity, Swabs / Wound Test code: C WOUND Sample type: Collect specimen in a sterile swab with transport media * Please indicate source of the specimen Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Throat Swabs / Upper Respiratory Test code: C UPP RESP Sample type: Collect specimen in a sterile swab with transport media Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Tissue Test code: C TISSUE Sample type: Collect specimen in a sterile swab with transport media Turnaround time: 2-4 days</p>
<p>Culture and Sensitivity, Urine Test code: C U Sample type: Collect 20mL urine in a sterile, screw capped container (Please indicate method of urine collection, e.g. mid-stream, catheterised or suprapubic) Turnaround time: 2-3 days</p>
<p>Culture and Sensitivity, VRE (Vancomycin Resistant Enterococcus) Test code: C VRE Sample type: Collect a small scoop of stool in a clean, screw capped container with the attached spatula or a rectal swab in a transport media Turnaround time: Positive results will be communicated by phone Negative results: 3-5 days</p>
<p>Gram Stain Test code: GRAM Sample type: Collect specimen in a sterile, screw capped container or use a sterile swab with transport media * Please indicate source of the specimen</p>

6.11 Microbiology (MIC) (cont'd)

Collect sample in sterile container or sterile swab with transport media

* **Please indicate source/type of specimen**

Test Name
<p>Smear, AFB - microscopic examination of specimens for acidfast bacilli Test code: SM AFB Sample type: Collect specimen in a sterile, screw capped container or use a sterile swab with transport media * Please indicate source of the specimen and provide individual container or swab if AFB culture is required together.</p>
<p>Smear, Amoeba - stool or liver abscess Test code: SM AMOEBA Sample type: Collect specimen in a clean, screw capped container (Please send specimen to lab immediately)</p>
<p>Smear, Fungus - microscopic examination of specimens for fungal element Test code: SM FUNGUS Sample type: Collect specimen in a sterile, screw capped container or use a sterile swab with transport media * Please indicate source of the specimen</p>
<p>Smear for Pneumocystic Carinii Test code: SM PNEUMO Sample type: Collect specimen in a sterile, screw capped container Ideal sample from bronchial alveolar lavage, transbronchial biopsy Turnaround time: 1-2 days</p>
<p>Swab for FEME - includes gram stain and wet mount preparation for monilia & trichomonas for genital tract specimens Test code: HVS FEME - for HVS swab specimen (female) Test code: US FEME - for urethral swab specimen (male) Sample type: Collect specimen using a sterile swab with transport media * Please indicate source of the specimen</p>

6.11 Microbiology (MIC) (cont'd)

Collect sample in sterile container or sterile swab with transport media

* **Please indicate source/type of specimen**

Test Name
<p>Swab for Wet Mount Preparation - microscopic examination of genital tract specimens for monilia & trichomonas</p> <p>Test code: WM</p> <p>Sample type: Collect specimen using a sterile swab with/without transport media *</p> <p>Please indicate source of the specimen</p>

6.12 Clinical Molecular and Specialised Tests (CMS)

Test Name
<p>Chlamydia Trachomatis PCR</p> <p>Test code: CT PCR</p> <p>Sample type: Male – Urine or Urethral Swab, Female – Endocervical Swab only</p> <p>(1) Urine sample – Patient must not have urinated during the previous 2 hours. Collect 10-50mL of urine including the first part of the stream into a sterile urine container</p> <p>(2) Swab – Urethral or endocervical specimens collected in dry swab (without transport medium)</p> <p>Test schedule: Monday, Thursday</p> <p>Turnaround time: 2-4 days</p>
<p>Chlamydia Trachomatis DNA and Neisseria Gonorrhoeae DNA</p> <p>Test Code: CTGC</p> <p>Sample Type: Male – Urine or Urethral Swab, Female – Endocervical Swab only</p> <p>(1) Urine sample – Patient must not have urinated during the previous 2 hours. Collect 10-50mL of urine including the first part of the stream into a sterile urine container</p> <p>(2) Swab – Urethral or endocervical specimens collected in dry swab (without transport medium)</p> <p>Test Schedule: Monday, Thursday</p> <p>Turnaround Time: 2 - 4 days</p>

6.12 Clinical Molecular and Specialised Tests (CMS) [cont'd]

Test Name
<p>Cystatin C Test Code: CYSC Sample type: 5mL Yellow-top SST Blood (4mL Green-top lithium heparin blood for STAT request)</p>
<p>Cytomegalovirus DNA Quantitation Test Code: CMV DNA Sample type: 2 x 3mL EDTA Test schedule: Tuesday, Friday Turnaround time: 2-4 days</p>
<p>HBV DNA (Quantitative) Test code: HBV DNA Sample type: PLAIN or SST blood (Specimen to be separated and frozen within 24 hours after collection) Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>HCV RNA (Quantitative) Test code: HCV RNAQ Sample type: PLAIN or SST blood (Specimen to be separated and frozen within 6 hours after collection) Test schedule: Wednesday Turnaround time: 2-7 days</p>
<p>HPV DNA (Human Papillomavirus DNA) Test code: HPV DNA Sample type: ThipPrep specimen (also refer to Section 7.1 Cytology Test Listing) Test schedule: Tuesday, Thursday, Saturday Turnaround time: 2-3 days</p>
<p>HPV DNA & Pap Smear ThinPrep (Cervical Screen) Test code: CVSCN Sample type: ThinPrep vial & cytobrush (also refer to Section 7.1 Cytology Test Listing) Test schedule: Tuesday, Thursday, Saturday (HPV DNA) Turnaround time: HPV DNA 2-3 days; ThinPrep Pap Smear 1-3 days</p>

6.12 Clinical Molecular and Specialised Tests (CMS) (cont'd)

Test Name
<p>Mycobacterium Tuberculosis Test code: MTB PCR Sample type: Sputum, Bronchial Washings or Bronchial Alveolar Lavages (All samples shall be collected in sterile bottle and transported to laboratory at room temperature preferably within 24hr. Please store in fridge if sample is not to be sent within the day) Test schedule: Friday Turnaround time: 2-7 days</p>
<p>Neisseria Gonorrhoeae DNA Test code: GC PCR Sample type: Sample type: Male – Urine or Urethral Swab, Female – Endocervical Swab only (1) Urine sample – Patient must not have urinated during the previous 2 hours. Collect 10-50mL of urine including the first part of the stream into a sterile urine container (2) Swab – Urethral or endocervical specimens collected in dry swab without transport medium Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>

Specialised Tests

Test Name
<p>Adrenocorticotrophic Hormone Test code: ACTH Sample type: EDTA blood (Use pre-chilled EDTA tube, keep specimen cool with ice and send to lab immediately) Test schedule: Tuesday, Friday Turnaround time: 2-4 days</p>

6.12 Clinical Molecular and Specialised Tests (CMS) [cont'd]

Specialised Tests

Test Name
<p>Anti-Cardiolipin IgG Test code: ACARG Sample type: PLAIN or SST blood Test schedule: Monday Turnaround time: 2-7 days</p>
<p>Anti-Cardiolipin IgM Test code: ACARM Sample type: PLAIN or SST blood Test schedule: Monday Turnaround time: 2-7 days</p>
<p>Anti-Cardiolipin IgG & IgM Test code: ACARGM Sample type: PLAIN or SST blood Test schedule: Monday Turnaround time: 2-7 days</p>
<p>Anti-Cyclic Citrullinated Peptide (Anti-CCP) Test code: ACCP Sample type: PLAIN or SST blood Test schedule: Tuesday, Friday Turnaround time: 2-4 days</p>
<p>Anti-LA (SSB) Antibody Test code: ANTILA Specimen type: PLAIN or SST blood Test Schedule: Monday, Thursday Turnaround Time: 2-4 days</p>
<p>Anti-Mullerian Hormone Test code: AMH Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Anti-Myeloperoxidase Antibody (Anti MPO) Test code: ANTIMPO Specimen type: PLAIN or SST blood Test Schedule: Monday, Thursday Turnaround Time: 2-4 days</p>

6.12 Clinical Molecular and Specialised Tests (CMS) (cont'd)

Specialised Tests

Test Name
<p>Anti-Neutrophil Cytoplasmic Antibody (ANCA Elisa) Test code: ANCA Specimen type: PLAIN or SST blood Test Schedule: Monday, Thursday Turnaround Time: 2-4 days</p>
<p>Anti-Proteinase 3 Antibody (Anti PR3) Test Code: ANTIPR3 Specimen type: PLAIN or SST blood Test Schedule: Monday, Thursday Turnaround Time: 2-4 days</p>
<p>Anti-Ribonucleoprotein Antibody (Anti RNP) Test Code: ANTIRNP Specimen type: PLAIN or SST blood Test Schedule: Monday, Thursday Turnaround Time: 2-4 days</p>
<p>Anti-RO (SSA) Antibody Test code: ANTIRO Specimen type: PLAIN or SST blood Test Schedule: Monday, Thursday Turnaround Time: 2-4 days</p>
<p>Anti-Sm Antibody (Anti-Sm) Test code: ANTISM Specimen type: PLAIN or SST blood Test Schedule: Monday, Thursday Turnaround Time: 2-4 days</p>
<p>Beta CrossLaps Test code: BCTX Sample type: EDTA blood (Fasting morning sample) Test schedule: Wednesday Turnaround time: 2-7 days</p>

6.12 Clinical Molecular and Specialised Tests (CMS) [cont'd]

Specialised Tests

Test Name
<p>BRAF V600 Mutation Test Test code: BRAF Sample type: Sample type: Paraffin embedded tissue block OR five (5) unstained sections of 5um thickness from the FFPE block on uncoated normal glass slides can be sent to Histopathology Section. Tumor content must be indicated and must be at least 50% tumor cells. Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Calcitonin Test code: CALCI Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>CD34 HSC Enumeration Test code: CD34 Sample type: EDTA blood</p>
<p>C-Peptide Test code: CPEPT Sample type: PLAIN or SST blood Test schedule: Tuesday, Wednesday, Friday Turnaround time: 2-3 days</p>
<p>Culture and Sensitivity, Carbapenem Resistant Enterobacteriaceae Test code: C CRE Sample type: Collect a small scoop of Stool in a clean, screw capped container with the attached spatula or a rectal swab in a transport media. *Please label CCRE on the container or transport swab Turnaround time: 2-4 days</p>
<p>Dehydroepiandrosterone Sulphate (DHEASO4) Test code: DHEAS Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>

6.12 Clinical Molecular and Specialised Tests (CMS) (cont'd)

Specialised Tests

Test Name
<p>EGFR Mutation Test Test code: EGFR Sample type: Paraffin embedded tissue block OR eight (8) unstained sections of 5um thickness from the FFPE block on uncoated normal glass slides can be sent to Histopathology Section. Tumor content must be indicated and must be at least 10% tumor cells. Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>First Trimester Screening (Free BHCG & PAPP-A) Test code: FTMS Sample type: PLAIN or SST blood</p>
<p>Growth Hormone Test code: GH Sample type: PLAIN or SST blood (Patient must be fasting and rest for 30 minutes before blood collection) Test schedule: Tuesday, Friday Turnaround time: 2-4 days</p>
<p>Helicobacter Pylori, IgG Antibody, Serum Test code: HELICO Sample type: PLAIN or SST blood Test schedule: Tuesday, Friday Turnaround time: 2-4 days</p>
<p>Hepatitis B Surface Antigen Quantitative Test code: HBSQ Sample type: PLAIN or SST blood Test schedule: Tuesday, Wednesday, Friday Turnaround time: 2-4 days</p>
<p>Hepatitis C Virus Antigen (HCV Ag) Test code: HCVAG Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Human Papillomavirus DNA Test code: HPV DNA Refer to HPV DNA test listing</p>

6.12 Clinical Molecular and Specialised Tests (CMS) [cont'd]

Specialised Tests

Test Name
<p>Human T-Cell Lymphotropic Virus Types I and II (Anti-HTLV I/II) Test code: HTLV Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Insulin Test code: INS Sample type: PLAIN or SST blood (Patient should fast 12 hours prior to specimen taking) Test schedule: Tuesday, Wednesday, Friday Turnaround time: 2-4 days</p>
<p>Insulin Growth Factor-1 Test code: IGF-1 Sample type: PLAIN or SST blood Test schedule: Tuesday, Friday Turnaround time: 2-4 days</p>
<p>KRAS Mutation Test Test code: KRAS Sample type: Paraffin embedded tissue block OR five (5) unstained sections of 5µm thickness from the FFPE block on uncoated normal glass slides can be sent to Histopathology Section. Tumor content must be indicated and must be at least 10% tumor cells. Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Lipase Test code: LIPASE Sample type: 5mL PLAIN or SST blood</p>
<p>Lipoprotein [a] Test code: LPA Sample type: PLAIN or SST blood (Patient should fast 12 hours prior to specimen taking)</p>

6.12 Clinical Molecular and Specialised Tests (CMS) (cont'd)

Specialised Tests

Test Name
<p>Measles IgG Test Test code: MEASLESG Sample type: 5mL PLAIN or SST blood Test schedule: Friday Turnaround time: 2-7 days</p>
<p>Methotrexate II Test code: MTX Sample type: Plain or SST blood</p>
<p>Mumps IgG Test Test code: MUMPSG Sample type: 5mL PLAIN or SST blood Test Schedule: Friday Turnaround time: 2-7 days</p>
<p>Mycoplasma Pneumoniae IgM Test code: MYCO IGM Sample type: PLAIN or SST blood</p>
<p>Osteocalcin, N-MID fragment Test code: OSTEOC Sample type: EDTA Blood Test schedule: Wednesday Turnaround time: 2-7 days</p>
<p>Parathyroid Hormone, Intact Test code: PTH Sample type: PLAIN or SST blood (Samples should be collected in the morning, preferably after a 12 hour fast. Keep specimen cool with ice & send to the lab immediately.) Test schedule: Monday, Tuesday, Wednesday, Thursday, Friday Turnaround time: 2-3 days</p>
<p>ProBNP (N-terminal pro B-type natriuretic peptide) Test code: PROBNP Sample type: PLAIN or SST blood or 4mL green-top lithium heparin blood</p>

6.12 Clinical Molecular and Specialised Tests (CMS) [cont'd]

Specialised Tests

Test Name
<p>Quantiferon-TB Gold Test code: QFTB Sample type: Send patient to lab for blood collection (Special collection tubes) Note: Monday-Friday 8.30am - 3.30pm No collection on Saturday, Sunday, Public Holiday or eve of Public Holiday Test schedule: Tuesday, Friday Turnaround time: 2-4days</p>
<p>Seminal Analysis and Evaluation Test code: SE Sample type: Please call for appointment. Send patient to lab for semen collection. Patient to collect specimen directly into a clean container provided by lab (Masturbation is the method to use – Patient should abstain from sexual activity for 2-7 days prior to specimen collection) Patient to take note of time of specimen collection, days of abstinence and any spillage. Cut-off time for specimen to be received by lab: Monday – Friday up to 12.30pm; Saturday up to 11 am Strictly by appointment.</p>
<p>Testosterone, Free and Bioavailable (Calculated) include:</p> <ul style="list-style-type: none"> • Testosterone, • Testosterone, Free (Calculated), • Testosterone, Bioavailable (Calculated) and • Sex Hormone Binding Globulin <p>Test code: FBIOT Sample type: PLAIN or SST blood Test schedule: Monday, Thursday Turnaround time: 2-4 days</p>
<p>Thyroglobulin Panel (include Thyroglobulin and Anti-Thyroglobulin Antibody) Test code: TGATG Sample type: PLAIN or SST blood</p>

6.12 Clinical Molecular and Specialised Tests (CMS) (cont'd)

Specialised Tests

Test Name
<p>TSH Receptor Antibody Test code: TRAB Sample type: PLAIN or SST blood Test schedule: Wednesday Turnaround time: 2-7 days</p>
<p>Urea Breath Test , 13C (Helicobacter Pylori) Test code: UBT Note: Call 62789188 for appointment on collection of patient's breath samples for analysis. Test must be done at the outpatient lab. Sample type: 1. Pre- and Post-urea breath samples in special collection bags. 2. Overnight fasting required if test to be carried out in the morning. 3. Four hours fast for test to be carried in the later of the day but with very light breakfast and no lunch. Medication to Avoid: 1. UBT must not be performed within 28 days of completing treatment. 2. PPI, antibiotics and bismuth or any drugs used in monotherapy known to suppress urease activity of HP could give false negative results - at least 14 days must be lapsed before UBT. 3. H2 antagonists should be avoided on the day of test. 4. Antacids, other medications with acid neutralizing effect should be avoided on the day of test.</p>
<p>Varicella-Zoster Virus IgG Test code: VZVG Sample type: PLAIN or SST blood Test schedule: Friday Turnaround time: 2-7 days</p>
<p>Vitamin D (25-OH Vitamin D) Test code: VITD Sample type: PLAIN or SST blood</p>

7. CYTOLOGY AND HISTOLOGY TEST LISTING



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7. Cytology and Histology Test Listing

7.1 Cytology Test Listing

Note: Please label all slides with patient's name on the frosted end of the slides in pencil, and indicate on laboratory request form the source / nature of specimen

Turnaround Time: 1-3 days normally; >3 days for cases that require special consultation or stains

Test Name	Sample Type
Fine Needle Aspiration Cytology (FNA) - e.g. Breast, Thyroid, Pancreas etc.	Fluid collected in sterile container <ul style="list-style-type: none"> • 1 to 6 slides • 7 or more
Miscellaneous Smears / Scrapings - e.g. Nipple	Air-dried, 95% alcohol-fixed or sprayed-fixed slides
Effusion Cytology - e.g. Pleural, Peritoneal, Sputum, Joint etc.	Effusion fluid collected in sterile container
Urine Cytology	10mL of voided or catheterised urine collected in clean container
Pap Smear	95% alcohol-fixed or sprayed-fixed slides <ul style="list-style-type: none"> • 1 slide • 2 slides
Pap Smear (ThinPrep)	Special vial with cytobrush
Pap Smear ThinPrep & HPV DNA (Cervical Screen)	Special vial with cytobrush

HPV add on tests may be ordered up to 30 days from the receipt of the ThinPrep pap test. Processing is subject to specimen adequacy.

7.2 Histology Test Listing

Sample Collection: Tissue preserved in 10% neutral buffered formalin

Turnaround Time: 1-3 days normally; >3 days for cases that require special consultation or stains

Test Name	Sample Type
Small or Small Uncomplicated Specimen	e.g. uterine curettings, cervical biopsies, fallopian tubes, small soft tissue lumps or skin biopsies, appendix
Medium or Small Complicated Specimen	e.g. gall bladder, breast lumps, lymph nodes, prostatic chips, liver biopsies, brain biopsies, bone marrow biopsies
Large I Specimen	e.g. uterus & cervix, large ovarian cyst, bone specimen, multiple fibroids, spleen, small thyroid nodules, hemithyroidectomy, cervical LEEP
Large II or Complex Specimen	e.g. colon, rectum, stomach, uterus & appendages, large bone specimen, cone biopsy, mastectomy, lung resection, total thyroidectomy, prostatic chips of more than 20g
Frozen Section	- By appointment only, specimen to be sent to PLS
Immunoperoxidase	Single stain Basic 2 - 3 stains Standard 4 - 8 stains Extended > 8 stains
Breast Prognostic Markers	
Histochemical Stain	- Depending on the number of stains
Consultation - Slide(s) and/or Block(s)	
Request for Slides (per piece)	

8. GENETICS TEST LISTING



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8. Genetics Test Listing

8.1 Specimen Handling Instructions

All specimens submitted to the laboratory must be clearly identified by two unique patient identifiers. Please provide patient's name and another patient identifier on all sample containers.

Samples should arrive in the laboratory within the same day of sample collection whenever possible. They must not be frozen nor fixed. When drawing amniotic fluid, the first 2mL may be discarded to reduce the risk of maternal cell contamination. Blood for most molecular DNA testing (except NIPS) should be taken into one or two 3ml EDTA containers. Collection containers must be closed tightly to prevent leakage of sample during transportation to the laboratory. Transport media or sterile bottles may be requested in advance from the laboratory (Genetics Laboratory Tel No: 62485873/4). Do not use expired collection containers or transport media for specimen collection.

Please ensure that the following details are provided on the request form:

- The patient's signed consent for the genetic test requested.*
- The name and signature of the doctor performing the procedure to obtain tissue samples. The name of the doctor requesting the procedure should also be provided where applicable.
- The clinic address to indicate where reports need to be sent
- The name of the nurse or phlebotomist taking the blood sample for testing, as well as the date of the blood-taking. The relevant OT/Ward and Hospital name where applicable should also be provided.
- The REFERRAL REASON(S) for the test (compulsory requirement). A history and/or intended purpose of the investigation allows us to select the exact culture regime or mode of analysis most appropriate for the clinical scenario.

*Note: Samples sent for karyotyping or molecular genetics testing require the patient's signed consent on the appropriate form(s). If the patient is <21 year old, his/her parent or legal guardian may give consent for the child.

For tests such as chromosome microarray, non-invasive prenatal screening (NIPS) and personalised genomics, there should be adequate pre- and post- counseling done by the clinician/ other healthcare professionals trained in genetics/ a genetic counselor so that the report is properly interpreted. For example, a "normal" result or absence of a mutation just implies that there was no specific alteration detected in the designed sites of the gene(s) interrogated. The patient may still have a mutation in a gene other than the gene(s) that was tested. Thus, the patient needs to be helped through to understand the implications of his/her report.

Genetic counselors are available at NUH or KKWCH. (Please call NUH appointment line 6-7722002 or KKWCH Senior Geneticist at 63942239 to fix an appointment for your patient).

8.2 Prenatal

Test Name
<p>Amniotic Fluid (Karyotype) Test code: K001 Sample type: Plain sterile universal bottle. Amniotic fluid, 20mL Turnaround time: 14 days</p>
<p>Chorionic Villus Sample (Karyotype) Test code: K002 Sample type: Bottle of transport medium. Chorionic villi, 30mg (minimum) Test schedule: Monday-Friday Turnaround time: 14 days</p>
<p>Foetal Cord Blood (Karyotype) Test code: K003 Sample type: Lithium heparin. Blood, 1mL Turnaround time: 7 days</p>
<p>Amniotic Fluid QF-PCR Test code: MG001 Sample type: Plain sterile universal bottle. Amniotic fluid, 5mL Turnaround time: 2-3 days</p>
<p>CVS/POC QF-PCR Test code: MG006 Sample type: Bottle of transport medium. Chorionic villi, 20mg Note: 2-3 complete fronds is required Turnaround time: 2-3 days</p>

8.3 Perinatal / Paediatric / Adult

Test Name
<p>Peripheral Blood (Karyotype) Test code: K011 Sample type: Lithium heparin. Blood, 5mL Turnaround time: 14 days</p>
<p>Neonate/Follow-up Blood Karyotype (Urgent) Test code: K045 Sample type: Lithium heparin. Blood, 2mL Turnaround time: 7 days</p>

8.3 Perinatal / Paediatric / Adult (cont'd)

Test Name
<p>Products of Conception (Karyotype) Test code: K014 Sample type: Bottle of transport medium. Chorionic villi from placenta is preferred. Note: Avoid sending endometrial tissue/decidua basalis, which is mainly maternal in origin. Success in culture is largely attributed to "viability" and "sterility" of the tissues sent. (Avoid skin tissue as viability is lower.) Test schedule: Monday - Friday Turnaround time: 14-21 days</p>
<p>Peripheral Blood QF-PCR Test code: MG004 Sample type: EDTA Blood, 3mL Turnaround time: 2-3 days</p>

8.4 Oncology

Test Name
<p>Bone Marrow (Karyotype) Test code: K022 Sample type: Bottle of transport medium. Bone marrow 1-5mL Test schedule: Monday - Friday Turnaround time: 10-14 days</p>
<p>Peripheral Blood for Leukaemia (Karyotype) Test code: K023 Sample type: Lithium heparin. Blood, 5mL Test schedule: Monday - Friday Turnaround time: 10-14 days</p>

8.5 Send Out Genetics Tests

All send-out test prices are subject to change periodically by our partnering labs.

This list is not exhaustive due to print constraint.

Please call us at **6248 5873/4** for send out test pricing, or for any other Genetics test enquiries.

Test Name	Container Sample Type	Turnaround Time
MaterniT21 PLUS	Cell-Free DNA BCT. Blood, 20mL	7-14 days
VisibiliT	Cell-Free DNA BCT. Blood, 20mL	7-14 days

Note: Although MaterniT21 has a high sensitivity and specificity, it is not considered a diagnostic test. Invasive prenatal diagnosis is recommended for patients with a positive test result.

Test Name	Container Sample Type	Turnaround Time
PathwayFIT (Diet Guidelines)	Saliva Kit. Saliva, 2mL	4-5 weeks

Note: Patients are provided with comprehensive nutrigenomic recommendations on diet, exercise, eating behaviours and health conditions as well as a personalized diet guideline booklet.

Test Name	Container Sample Type	Turnaround Time
Prenatal Microarray	Please enquire	2-3 weeks
Postnatal Microarray	Please enquire	3-5 weeks

Note: Special processes and a separate consent form are required. Please call to coordinate with our laboratory staff.

Test Name	Container Sample Type	Turnaround Time
HER-2 FISH assay	1 H&E stained FFPE slide with tumour area marked and 2-3 unstained FFPE slides	2 weeks

9. SEND OUT TEST LISTING



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9. Send Out Test Listing

Please fill tube up to required mark.

All send-out test prices are subject to change periodically by our partnering labs.

This list is not exhaustive due to print constraint.

Please call us at **6278 9188** for send out test pricing, TAT and schedule or for any other test inquiries.

SEND OUT TEST DESCRIPTION	SAMPLE TYPE
17 OH PROGESTERONE	6ml Plain Blood
24HR URINE CITRIC ACID	24hr Urine in 15ml of HCL
24HR URINE METANEPHRINES	24hr Urine in 15ml of HCL
24HR URINE OXALATE	24hr Urine in 15ml of HCL
24HR URINE VMA	24hr Urine in 15ml of HCL
8AML	6ml EDTA or Bone Marrow
8BCLP	3ML EDTA
ACETYLCHOLINE RECEPTOR ANTIBODY	6ml Plain Blood
ADENOSINE DEAMINASE	Pleural Fluid
AFB CULTURE	Sputum; Urine; Pleural Fluid; Stool; Swab etc...
ALDOLASE	6ml Plain Blood
ALDOSTERONE	6ml Plain Blood
ALLERGEN	6ml Plain Blood
ALLERGY FOOD PANEL	6ml Plain Blood
ANCA	6ml Plain Blood
ANGIOTENSIN CONVERTING ENZYMES	6ml Plain Blood
ANTI BETA2 GLYCOPROTEIN 1 AB	6ml Plain Blood
ANTI ENA PROFILE	6ml Plain Blood
ANTI ENDOMYSIUM IGA IFA	6ml Plain Blood

9. Send Out Test Listing (cont'd)

SEND OUT TEST DESCRIPTION	SAMPLE TYPE
ANTI GLIADIN PEPTIDES IGA AB	6ml Plain Blood; 3ml EDTA; 4ml Lit Hep; 2.7ml Citrated Blood
ANTI GLIADIN PEPTIDES IGG AB	6ml Plain Blood; 3ml EDTA; 4ml Lit Hep; 2.7ml Citrated Blood
ANTI JO1	6ml Plain Blood
ANTI LIVER ANTIBODIES PROFILE	6ml Plain Blood
ANTI RNP	6ml Plain Blood
ANTI SCL70	6ml Plain Blood
ANTI THROMBIN 3	2x 2.7ml Citrated Blood, kept in ice
ANTIBODY SCREEN	2x 6ml Plain Blood + 3ml EDTA
ANTI GLIADIN/ENDOMYSIUM	6ml Plain Blood
BCR/ABL (REAL TIME) QUANTITATIVE	1ml Bone Marrow or 6ml EDTA
BK POLOMAVIRUS DNA QUANTITATIVE	6ml EDTA or 1st catch Urine, kept in ice
CATECHOLAMINES 24 HR URINE	24hr Urine in 15ml of HCL
CD4 (T HELPER/INDUCER)	3ml EDTA
CD8 (T CYTOTOXIC/SUPPRESSOR)	3ml EDTA
CHROMOGRANIN A	6ml Plain Blood
CRYPTOCOCCUS AG (QUALITATIVE)	6ml Plain Blood; CSF
EBV EA IGA	5ml Plain Blood
EBV VCA IGA	5ml Plain Blood
EBV VCA IGM	5ml Plain Blood
ENA PANEL	6ml Plain Blood
EVEROLIMUS	3ml EDTA - state: Random or Trough

9. Send Out Test Listing (cont'd)

SEND OUT TEST DESCRIPTION	SAMPLE TYPE
FACTOR 5 LIEDEN	2x 3ml EDTA
FISH MYELOMA PANEL	Bone Marrow in Sodium Hep tube
GAD AUTOANTIBODY	6ml Plain Blood
HAEMOCHROMATOSIS GENE MUTATION	6ml EDTA + consent form
HEPATITIS DELTA TOTAL AB	6ml Plain Blood
HEPATITIS E IGG AB	6ml Plain Blood
HEPATITIS E IGM AB	6ml Plain Blood
HERPES CULTURE	Fluid or swab in Hanks Media
HERPES SIMPLEX IGM AB	6ml Plain Blood
HERPES SIMPLEX ISOLATION	Fluid or swab in Hanks Media
HIV VIRAL LOAD TEST	9ml EDTA
IMMUNOFIXATION ELECTROPHORESIS	6ml Plain Blood & 20ml Urine
INTRINSIC FACTOR ANTIBODY	6ml Plain Blood
JAK2 MUTATION	3ml EDTA
KAPPA FREE LIGHT CHAIN	5ml Plain Blood or Random Urine
LAMBDA FREE LIGHT CHAIN	5ml Plain Blood or Random Urine
LEGIONELLA ANTIBODY	6ml Plain Blood
LITHIUM	6ml Plain Blood
M BAND QUANTITATIVE	6ml Plain Blood
MELIODOSIS ANTIBODY	6ml Plain Blood
MTHFR	6ml EDTA
MYELOMA IMMUNODETECTION	6ml Plain Blood & 20ml Random Urine

9. Send Out Test Listing (cont'd)

SEND OUT TEST DESCRIPTION	SAMPLE TYPE
PROTEIN C	2x 2.7ml Citrated Blood (kept in ice)
PROTEIN S (FREE)	2x 2.7ml Citrated Blood (kept in ice)
PROTEIN S (FUNCTIONAL)	2x 2.7ml Citrated Blood (kept in ice)
RA FACTOR (IGM)	6ml Plain Blood
RBC CHOLINESTERASE	3ml EDTA
RENIN (PLASMA RENIN ACTIVITY)	6ml EDTA (state: Supine or Erect)
RESPIRATORY VIRUS ANTIGEN PANEL 1	nasal asp.in 2ml saline; broncho lavage; throat swab; sputum; endo tube asp; lung Bx
RESPIRATORY VIRUS IF (NASAL)	Nasal aspirate in bottle (sent in ice)
SIROLIMUS	3ml EDTA
STONE ANALYSIS	Renal stone
STOOL CALPROTECTIN TEST	Stool
TB PROBACTEC	Any spec. similar to TBPCR, must order with AFB c/s
TB SPOT TEST	9ml Lithium Hep or 5ml Lithium Hep (Child) Refer to p.19 for special instructions
THROMBOPHILLIA SCREENING PANEL	5ml Plain + 3ml EDTA + 5x4.5ml PT tubes (kept in ice)
THYROID STIMULATING IMMUNOGLOBULIN	6ml Plain Blood
TISSUE TRANSGLUTAMINASE IGA AB	5ml Plain Blood; 3ml EDTA; 3ml Li Hep or 2.7ml Citrated Blood
TISSUE TRANSGLUTAMINASE IGG AB	5ml Plain Blood; 3ml EDTA; 3ml Li Hep or 2.7ml Citrated Blood
URINE 5HIAA	24hr Urine in 15ml HCL; 15ml Random Urine (child only)
URINE CATECHOLAMINES	24hr Urine in 15ml of HCL
URINE FREE CORTISOL	24hr Urine

9. Send Out Test Listing (cont'd)

SEND OUT TEST DESCRIPTION	SAMPLE TYPE
VENOUS THROMBOSIS PANEL	6ml EDTA (Test: Fac 5 Leiden, MTHFR & PT20210 Mut)
VITAMIN A & E	5ml Plain Blood Wrap in aluminium foil (sent in ice)

This list is not exhaustive due to print constraint.

Please call us at **6278 9188** for send out test pricing, TAT and schedule or for any other test inquiries.

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