

## APPENDIX A - Alphabetical List of Tests

TEST PANEL	VOLUME	SPECIMEN	REQUIREMENTS
ACR – Albumin / Creat. Ratio Random ALBUMIN (urine/random/24 hr/2 hr) Microalbumin	Minimum of 5 mL	Urine Random. 24 h Urine, Boric acid:	Random and 2 hr Urine, no preservative Send cold.
Alcohol	4 mL	Fluoride Oxalate	Send cold
Albumin Creatinine Ratio Random		Urine Random	Send cold. See requirements for ACR.
ANC Serology		4 mL + 6 mL EDTA and 8 mL Clotted	Collect specimens for Hepatitis B, Ag, Rubella, RPR, Group & Ab screen, FBC and HIV (request HIV only if local ANC policy dictates). Spin clotted. Send cold.
Antibody Screen	6 mL	EDTA	Send cold.
APTT (Activated Partial Thromboplastin Time (plasma)	4 mL	Sodium Citrate	Sample must be filled to the mark. See preparation if delay in delivery. Paediatric collection - Special 2mL vials available.
Arboviruses - Ross River, Barmah Forest Virus, Dengue Virus, Flavivirus Group (non-Dengue),	8 mL	Clotted	Spin and send cold.
ASOT (Anti Streptolysin O Titre) Streptococcal Serology and Anti DNaseB	8 mL	Clotted	Spin and send cold.
ANA	8 mL	Clotted	Spin and send cold.
Blood Culture	2 x 10 mL	Bact/Alert Bottles	Deliver ASAP, incubate if from outer areas. (Send BC at room temperature only).
Blood Group	6 mL	EDTA	Send cold.
Blood Sugar Level BSL			(see Glucose)
Calcium Panel (Ca/Phos/Alb)	6 mL	Lithium Heparin	If possible collect specimen without cuff and note conditions on request form. Spin and send cold.
Calcium Timed Urine	1 mL	Urine 24 hr + Boric acid	Send specimen to laboratory cold. Note volume, start and finish time on request form.
Carbamazepine	8 mL	Clotted	Collect prior to next dose. Spin and send.
Cardiac Enzymes	6 mL	Lithium Heparin	Includes CK only. AST and LDH must be specifically requested if required.
Catecholamine Studies (VMA)	20 mL	Random or 24 hr Urine	Catecholamines include adrenalin, noradrenalin and dopamine. 10mL 6M HCl. Send 2 X 10 mL. Send cold.
Chlamydia PCR		First catch urine or dry swab	Send cold. Do not add boric acid.
Cholesterol	6 mL	Lithium Heparin	Spin and send cold. Patients must be fasting for 12 hours prior to collection.
CMV IgM (EIA)	8 mL	Clotted	Spin and send cold.
Coag Panel (PT/INR/APTT/Fib)	4 mL	Sodium Citrate	Sample must be filled to the mark. Paediatric collection 1 mL vials available.
Complement C3, C4	8 mL	Clotted	Spin and send cold.
Cord Blood	6 mL	EDTA	Please specify which tests are required.
C-Reactive Protein (CRP)	8 mL	Clotted or Lithium Heparin	Spin and send cold.
Creatinine	6 mL	Lithium Heparin (Gel)	Spin and take off plasma in separate tube and send cold. See preparation details.

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Creatinine Clearance	6 mL	Lithium Heparin (Gel) & 24 hr Urine	Add Boric Acid to urine Record total volume, start and finish times. Send 50 mL in sterile yellow top urine container. Send cold.
Creatinine Timed Urine		Urine 24 hr + Boric Acid	Total volume recorded, start and finish times. Take off into yellow top urine container. Send cold.
Crossmatch (Neonatal)	1 mL	EDTA	Process as soon as possible. Send cold.
Crossmatch (Routine)	6 mL	EDTA	Process as soon as possible. Send cold.
Cryptococcal Antigen	8 mL	Clotted	Spin and send cold
D-DIMER	4 mL	Citrated	Use spun Citrate
Dengue Screen	8 mL	Clotted blood, 1 mL serum	Included in Flavivirus Screen. Spin and send cold.
Digoxin Panel	8 mL	Clotted or Lithium Heparin	Collect 6-24 hrs after dose. Time to Steady State 7-10 days. Spin and send cold.
Direct Coombs Test	4 mL	EDTA	Send cold.
Drug Screen - Urine Toxicology	20 mL	Urine	Send cold.
eGFR	6 mL	Lithium Heparin (Gel)	Spin and take off plasma in separate tube and send cold. See preparation details.
Epstein Barr Virus (EBV)	8 mL	Clotted	Spin and send cold.
ESR	4 mL	EDTA or VesTube	Can be performed as part of FBC. Must be tested within 24 hrs. Send cold.
Factor Assays	3 x 3.5 mL	Sodium Citrate	Spin, Separate and send frozen as per procedure.
Folate (Red cell) Whole blood	4 mL	EDTA	Do not centrifuge. Send cold.
Flavivirus (Non Dengue) Group Antibody (1gM) (serum) Group includes Murray valley Encephalitis, Japanese Encephalitis, Kokobera, Stratford, Kunjin	8 mL	Clotted	Spin and send cold.
Full Blood Count – FBC includes Hb	4 mL	EDTA	Paediatric use 1mL EDTA. Make thin film. Send cold.
Gentamicin (once daily dose)	8 mL	Clotted	Collect 6 - 14 hrs post dose. Spin and send cold.
Gentamicin (trough)	8 mL	Clotted	Collect within 30 mins prior to next dose. Spin and send cold.
Gentamicin (peak)	8 mL	Clotted	Collect 30 mins after completion of infusion or for intramuscular, collect 60 mins after injection. Spin and send cold.
Glucose Tolerance Test	3 x 4 mL	Fluoride Oxalate	See GTT protocol. Send cold.
Glucose	6 mL	Fluoride Oxalate OR Lithium Heparin	If >30min between collection & separation of plasma, use Fluoride Oxalate. Spin and send cold.
<i>Neisseria gonorrhoeae</i> PCR	5mL	See Collection. First catch urine or dry swab.	Avoid using Boric additive urine specimen tubes (inappropriate specimen for PCR) Send cold.
Group	6 mL	EDTA	Send cold.
Group & Ab Screen	6 mL	EDTA	Send cold.
Group & Hold	6 mL	EDTA	Send cold.

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HbA1 <sub>c</sub> Adult	4 mL	EDTA	Do not centrifuge. Send cold.
HCG	8 mL	Clotted	Spin and send cold.
HDLC + TRIG & CHOL	6 mL	Lithium Heparin or clotted	Spin and send cold.
Hepatitis Serology	8 mL	Clotted	Hep A, B & C can be performed on one 8 mL tube. Spin and send cold
High Vaginal Swab - M/C/S		Charcoal swab	See microbiology collection details.
HIV Screen	8 mL	Clotted	Spin and send cold.
INR	4 mL	Sodium Citrate	Tube must be filled to the mark. Paediatric 2mL Sodium Citrate. If delay in testing see preparation details. Send plasma frozen.
Iron Studies	8 mL	Clotted (Paed 1mL)	Include Fe, Ferritin & Transferrin.
Lactate Dehydrogenase (LD)	6 mL	Lithium Heparin	Spin and send cold.
Lead	4 mL	EDTA Whole blood	Send cold. Do not spin.
Leptospira Culture		2-5 drops of blood to special bottles	Add to 2 EMJA media bottles. Send at room temp.
Leptospirosis Serology IgM	8 mL	Clotted	Spin and send cold.
Lipid Profile (CHOL/TRIG)	6 mL	Lithium Heparin or clotted	Patient must be fasting 12 hrs before collection. Spin and send cold.
Lithium Panel	6 mL	Clotted	Collect sample before first morning dose. Do not use Lithium Heparin tube. Spin and send cold.
Liver Function Tests (LFT)	6 mL	Lithium Heparin	Can be performed from U&E tube. Spin and send cold.
Magnesium	6 mL	Clotted/Lith Hep	Can be performed from U&E tube. Spin and send cold.
Malarial Parasites	4 mL	EDTA	Make 2 thick & 2 thin films. See preparation manual. Send EDTA cold.
Paracetamol	6 mL	Clotted or Lithium Heparin	Also called Acetaminophen. Spin and send cold. Note time of ingestion.
Paraquat (Plasma)	8 mL	Lithium Heparin - no gel	Inform lab as soon as test is being considered. Spin and send cold.
Paraquat (Urine)	10mL	Urine	Inform lab as soon as test is being considered. Send cold.
Phenobarbitone	8 mL	Clotted	Collect prior to next dose. Spin and send cold.
Phenytoin	8 mL	Clotted	Collect prior to next dose. Spin and send cold.
Phosphate	6 mL	Lithium Heparin	Spin and send cold.
Primidone	8 mL	Lithium Heparin	Collect prior to next dose. Spin and send cold.
Protein Electrophoresis	8 mL	Clotted	Spin and send cold.
Prothrombin Time/INR	4 mL	Sod. Citrate (Paed 2mL)	Sample must be filled to the mark. See preparation if delay in delivery. Send plasma frozen.
Rheumatoid Factor	8 mL	Clotted	Spin and send cold.
Ross River Virus	8 mL	Clotted	Spin and send cold.
RPR	8 mL	Clotted	Spin and send cold.
Rubella IgG	8 mL	Clotted	Part of ANC screen. Spin and send cold.
Salicylate (Aspirin)	6 mL	Clotted	Spin and send cold.
Snake Venom (Blood or Urine)		Urine or 8 mL Clotted	Keep refrigerated. Preferred sample for identification - swab from bite site. Notify lab for

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			swab collection.
Snake Venom (Swab of Bite Site)		Special kit	Phone laboratory for request. Special collection swab.
Streptococcal Serology (ASOT)	8 mL	Clotted	Spin and send cold.
Strongyloides	8 mL	Clotted.	Spin and send cold.
Theophylline	8 mL	Clotted	Collect prior to next dose. Spin and send cold.
Thrombophilia Screen	3 x 3.5 mL 1 x 4 mL 1 x 8 mL	Sodium Citrate EDTA Clotted	Spin and freeze citrated plasma as per coagulation separation procedure. EDTA is sent cold as whole blood. Clotted tube is spun and sent cold.
Thyroid Function Test (TFT)	8 mL	Clotted	Includes T4 & TSH. Spin and send cold.
Tobramycin (once daily dose)	8 mL	Clotted	Collect 6 - 14 hrs post dose. Spin and send cold.
Tobramycin (trough)	8 mL	Clotted	Collect within 30 mins prior to next dose. Spin and send cold.
Tobramycin (peak)	8 mL	Clotted	Collect 30 mins after completion of infusion or for intramuscular, collect 60 mins after injection. Spin and send cold.
Toxicology Screen Urine	10mL	Urine	Send cold.
Treponema Pallidum Particle Assay	6 mL	Clotted	Allow to clot and spin.
Triglyceride	6 mL	Clotted or Lithium Heparin	Patient must fast for 12 hrs prior to collection. Spin and send cold.
Troponin I	8 mL	Lithium Heparin or Serum	Spin and send cold. Collect 6-12 hrs post infarction.
Urate Timed Urine	10mL	24 hr Urine. No preservative.	Note volume, start and finish times on request form. Send 50 mL specimen cold.
Urea & Electrolytes	6 mL	Lithium Heparin	Spin and take off plasma in separate tube and send cold. See preparation details.
Urea, Elects, Glucose	6 mL	Lithium Heparin	Spin and separate plasma into take off tube within 30 minutes of collection. Send cold.
Uric acid	6 mL	Lithium Heparin	Spin and send cold.
Urine - 24 hr collection	70 mL	24 hr urine bottle	Refer page 33 for correct preservative. Ensure total volume, start and finish time is written on both request form and specimen. Send cold.
Vancomycin (trough level)	8 mL	Clotted	Collect prior to next dose. Spin and send cold.
Viral Screen	8 mL	Clotted	Medical Officer must request specific viral test to be screened.
Vit B12/Red Cell Folate	8 mL	Clotted + 4 mL EDTA. Whole blood	Do not centrifuge EDTA. Spin clotted tube and send cold.
Valproate (trough)	8 mL	Clotted or Lithium Heparin	Collect prior to next dose. Spin and send cold.