












LIS OPTIMISED SPECIMEN COLLECTION TUBES

LIS container name / Tube content	Tests	Current tubes and volumes	LIS changes	Benefits	Comments
MICROBIOLOGY					
BLDCULT Blood cultures 	Blood Cultures Investigation of a systemic bacterial or fungal infection	8 – 10 ml per container	No change Aerobic 168619R Ref. 442023 Anaerobic 168620T Ref. 442021		
BIOCHEMISTRY / SEROLOGY					
GREEN Lithium heparin + gel (PST) 	Locally performed routine biochemistry and routine drug testing (e.g. UEC, LFT, Lipids (Chol/Trig), HDL, CK, Lipase, CRP, Ca ²⁺ , Phos, Mg ²⁺ , LDH, NT proBNP, Cardiac Enzymes, Gamma GT, Bicarbonate, Uric Acid, Protein, Glucose)	8.0ml 3.0ml – standard adult 0.6ml - capillary collections only	3.0ml – standard adult / blood management 123374W. Ref. 367373 0.6ml - capillary collections only 135939E Ref. 365960	↓ in total number of biochemistry tubes collected. Removal of large volume tubes unless specifically required for clinical trials.	All Biochemistry tests have been reviewed in the context of tube type and minimising the number and type of tubes being collected. e.g routine drug tests have been undergone state wide standardisation and be performed on the PST tube, allowing these tests to be combined with routine biochemistry tests. This will reduce the volume and number of tubes collected. Specialist pharmacology / toxicology tests will continue to be performed on a RED top tube. Rapid Serum Tube (RST) for troponin replaced by PST – Transition completed
RED Serum + clot activator 	Specialist pharmacology therapeutic Drug Levels, antibiotic assays and drugs of abuse. Note – routine drug tests may be collected into a red top serum tube when the test is referred / transported to the lab. EDTA used for Anti-Rejection Drugs.	10.ml 6.0ml – standard adult 2.0ml - paediatric 0.5ml – capillary collections only	6.0ml – standard adult 98180F. Ref 367837 2.0ml - paediatric / blood management 104770G. Ref. 368492 0.5ml – capillary collections only 96176D. Ref. 365964		
GOLD Serum + gel (SST) 	All Viral Serology Immunology All Hormones Biochemistry tests that are referred to a hub laboratory for testing and require transport (ie tests that take >1day for a result)	5.0ml - adult 3.5ml - paediatric	No change to volume 5.0ml – adult 113908F. Ref. 367954 3.5ml – paediatric 113907E. Ref. 367956		






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GREY Fluoride Oxalate 	Glucose Tolerance Test: Glucose, BSL, Sugar, Blood Sugar where testing is delayed.	2.0ml - adult 0.5ml - capillary collections only	No change		







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HAEMATOLOGY					
LAVENDER K2EDTA 	Blood Count: FBC, FBP, CBC, WCC, Hb, Plt Glycated Hb: HbA _{1c} Malaria Anti-Rejection Drugs (e.g. Tacrolimus, Sirolimus)	9.0ml – special use and TM only 4.0ml - adult 3.0ml - adult 2.0ml - paediatric 0.5ml - capillary collections only	9.0ml – special use only (organ donor). Not used for any routine testing due to instrument incompatibility. Contact Lab to supply. 3.0ml – standard adult 98188C Ref. 367838 2.0ml - paediatric / blood management. 199300M. Ref. 368841 0.5 ml – capillary collections only 155760G Ref. 363706	↓1.0ml per adult FBP collection	TM now performed on 6ml PINK tube instead of 9ml EDTA State wide transition complete.
PINK EDTA - Transfusion only 	Cross Matching and all related blood bank tests only (eg Group & Hold, antibody screening, blood group)	9.0ml (see special use only) 6.0ml	6.0ml – standard TM tube only 152349P. Ref. 367941	↓3.0ml for all TM collections (previously using 9.0ml EDTA above)	State wide transition complete.
BLUE Sodium Citrate 	Coagulation Testing e.g. INR, APTT, Coagulation profile, D Dimer, Protein C/S, ATIII, Prothrombin Time.	3.5ml - standard adult 2.7ml - adult 1.8ml – paediatric/blood management 1.0ml - capillary collections only	2.7ml – standard adult 123364G. Ref. 363095 1.8ml – paediatric / blood management 98206J. Ref. 363093 1.0ml - capillary collections only 176478A. Ref. 450539	↓ 0.8ml per adult tube	State wide transition complete.
BLACK Sodium Citrate – ESR only 	Erythrocyte Sedimentation Rate (ESR)	4.0ml 1.36 ml	1.36ml – 136346C. Ref. 366676	↓3.64ml per tube	State wide transition complete.




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IMMUNOLOGY					
ACD Acid Citrate Dextrose 	HLA Studies	9.0ml – standard adult 6.0ml - paediatric	No change to volume. Standardised to plastic tubes 9.0ml – standard adult. 98213F Ref. 455094		Transition to plastic tubes for safety. Glass tubes removed from HSS catalogue.
QANT Quantiferon TB kit 	Interferon Gamma Testing for TB. First-line Interferon-gamma release assay against tuberculosis-specific antigens, and used for the diagnosis of latent tuberculosis		No change 154405N. Ref. 622526		
QUCMV Quantiferon CMV kit 	Interferon Gamma Testing for CMV. First-line Interferon-gamma release assay against CMV antigens, and used for the monitoring of CMV		No change 190177W. Ref. 0192-0301		



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SPECIALTY TUBES					
DKGNLITH Lithium heparin (no gel) 	Specialist tests e.g Metanephrines, plasma free Hb, specialty drug tests	10.0ml 4.0ml - adult 2.0ml - paediatric 0.6ml - capillary collections only	4.0ml – standard adult 98198B. Ref. 367883 2.0ml – paediatric / blood management 152352W. Ref. 368495 0.6ml - capillary collections only 135939E. Ref. 365966	↓ in the total number of tubes Removal of large volume tubes unless specifically required for clinical trials.	See biochemistry comments.
GREENNA Sodium Heparin 	Chromosomal studies (e.g. Karyotype, FISH)	6.0ml	No change 104122H. Ref. 367876		
PEARL EDTA = gel 	Parathyroid Hormone (PTH) Quantitative PCR	5.0ml	No change 123365H. Ref. 362791		
NAVY EDTA- Trace Element 	Blood Lead & Other Heavy Metals	6.0ml	No change 162374H. Ref. 368381		



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SYRINGE Blood gas syringe 	Venous or Arterial Blood Gases For venous /arterial blood gas testing.		No change		