Title of Document: Neonatal and Paediatric Containers for Blood Collection

Q Pulse Reference Nº: BS/FT017

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Refer to the table below for the correct sample type for use in Neonates and Paediatric patients.

1) Inpatient NEONATAL Sampling

Blood samples must be taken in the correct order (Order of Draw).

Order of Draw	Tube Type and Cap Colour	Additive	Tests	Special Instructions
1	Clotting Samples (Blue top)	Sodium Citrate	Clotting studies	Tube MUST be filled to the indicated level. Call Haematology Ext 48351 for additional bottles
2	Lavender top	EDTA	FBC	Mix x10 Times
3		Lithium heparin	For plasma determination of U&E, LFT, CRP, Bilirubin	Mix x10 Times
4	Grey top	Fluoride	Glucose, Lactate, Ethanol.	Mix x10 Times

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Order of	Tube Type and Cap Colour	Additive	Tests	Special Instructions
Draw				
5	Serum (Gold top)	Clot activator	For serum determinations of Chemistry and Immunology tests only	Mix x5 Times
6	Paediatric Microvette	None	Antibiotic levels	n/a
7	Transfusion (Pink top)	EDTA	Transfusion samples (Group & Save, Crossmatch, Direct Coombs Test (DAT)	Sample must be labelled in line with Trust Guidelines Mix x10 Times

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2) Paediatric Outpatients only.

Refer to the Standard Vacutainer BD collection tubes in Appendix I and available on <u>Severn Pathology Website</u> with the exception of:

Order of Tube Type and Cap Colour Draw		Additive	Tests	Special Instructions
2	Serum (Gold top)	Clot activator	Immunology tests only	Mix X5 Times

3) Arterial/Capillary Blood Sampling

Order of	Tube Type and Cap Colour	Additive	Tests	Special Instructions	Аррі	d Use	
Draw					Neonatal (eg NICU)	Paediatric OP	Emergency Department
n/a	Blood gas capillary	Heparin	Blood Gas and/or bilirubin analysis.	Analyse as soon as possible and within 15 minutes Available on Request from POCT Dept Ext 48422 Mix For 30 secs			

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4) GP and Other Paediatric Sampling

The following venepuncture protocols based on age group are recommended:

- In children <10 years of age venepuncture using a butterfly with 23g needle
- In children >10 years of age venepuncture using a straight 23g (black) needle
- Minimum sample volumes are 1ml per standard tube taken (with the exception of coagulation bottles) which are significantly below the maximum allowable volume in one blood draw defined by the World Health Organisation.

For bottle types refer to the Standard Vacutainer BD collection tubes Appendix I and Severn Pathology Website

5) References:

World Health Organisation - Maximum Amounts of Blood to be Drawn From Patients Younger than 14 Years RECOMMENDED MAXIMUM ALLOWABLE TOTAL BLOOD DRAW VOLUMES (CLINICAL + RESEARCH)

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Appendix I

			de & Recommended Order o atory standards Institute (Formerly NCCL5) Guidelines North Bristol NHS Trust	
			General Wards	
la	ood sample	s must b	e taken in the following order:	
	Cap Colour	Additive	Tests	Special Instructions
1		Blood Culture	Aerobic followed by Anaerobic - if insufficient blood for b Aerobic bottle only.	ooth culture bottles, use
2		Sodium Citrate	Clotting studies, INR, Heparin monitoring, Warfarin monitoring, D-Dimer.	Tube MUST be filled to the full draw volume.
3		SST [™] II	U&Es, LFT, Calcium, Lipids, Thyroid function test, CRP, Amylase, Magnesium, Vitamin B12, Folate, Ferritin, Serum electrophoresis, Antibiotic assays, Immunology, Serology, Lithium, etc.	6
4		EDTA	Full blood count, plasma viscosity, immunosuppressants, Haemoglobin A1c, Parathyroid hormone, Sickle cell & thalassaemia, Malaria screens, ammonia.	e
5	=0	EDTA	Transfusion samples (Group & save, cross match, antenatal).	Ę
5		Fluoride Oxalate	Glucose, Lactate, Ethanol.	¢.
7		Trace Element	Zinc, Selenium, Aluminium, Copper, etc.	¢.
-	For fu		es of this guide and questions regarding ase contact the main Pathology Laborator	