

ROUTINE PRE – STEM CELL TRANSPLANT BLOODS

Patients

NB: State “BMT recipient” on all request forms/ICE request. ICE automatically prints labels which indicate the correct sample bottles.

<u>Assessment</u>	<u>TEST</u>	<u>TO BE SENT TO</u>	<u>OTHER INFO</u>
Haematology	FBC, Differential, Clotting studies including Fibrinogen	Path Lab, BRI	Fill BLUE clotting bottle carefully up to fill-line
Biochemistry	U&E, LFT, CRP, Ca, PhosGlucose, K, Immunoglobulin master. Additionally, for paediatric patients: vitamin D levels OESTRADIOL + FSH/LH and serum HCG for females aged 10+. TESTOSTERONE for all males.	Path Lab, BRI	
Virology	CMV IgG and IgM, EBV IgG, varicella zoster IgG, toxoplasma IgG, syphilis screen, hepatitis B surface antigen, hepatitis B core antibody, hepatitis B viral load, HTLV type I and II antibody, hepatitis C antibody screen, hepatitis C PCR, hepatitis E RNA, HIV 1&2 antigen/antibody screen, HIV viral load, measles	UKHSA Lab (send via Path Lab, BRI)	Request BMT work-up profile + BMT pre PBSC collection profile under Infection Science (viral profiles) on ICE Request within 30 days of admission for transplant For Paeds minimum 14mls clotted (yellow bottles) and 8mls EDTA (purple)
Transfusion	BMT CROSS-MATCH WORK-UP (RCI)	RCI Lab, NHSBT (send via Path Lab, BRI)	Send with RCI Lab request form (previously called 1A) and complete details on form in full. Write “ BMT Recipient ” in Diagnosis section.
Transfusion	BMT Group & Save	Path Lab, BRI	Send with hospital transfusion request form selecting group and hold.
Tissue Typing	HLA class I & II HLA specific antibody testing	H&I Lab, NHSBT (send via Path Lab, BRI)	Send with H&I Lab, request form 3C, complete all details on form in full. Send 8mls EDTA bottles for tissue typing and one yellow, clotted bottle (6mls) for antibody screen

ROUTINE PRE –DONATION BLOODS

Stem cell / Bone marrow/ Lymphocyte Donors

NB: State “BMT Donor” on all request forms/ICE request. ICE automatically prints labels which indicate the correct sample bottles.

<u>Assessment</u>	<u>TEST</u>	<u>TO BE SENT TO</u>	<u>OTHER INFO</u>
Haematology	FBC, Differential, CLOTTING STUDIES including Fibrinogen	Path Lab, BRI	Fill BLUE clotting bottle carefully up to fill-line
Biochemistry	U&E, LFT, CRP, Ca, Phos, GLUCOSE, K Serum hCG assay	Path Lab, BRI	Serum HCG assay required for all appropriate female donors above childbearing age (≥ 10 years old)
Virology	CMV IgG and IgM, EBV IgG, varicella zoster IgG, toxoplasma IgG, syphilis screen, hepatitis B surface antigen, hepatitis B core antibody, hepatitis B viral load, HTLV type I and II antibody, hepatitis C antibody screen, hepatitis C PCR, hepatitis E RNA, HIV 1&2 antigen/antibody screen, HIV viral load	UKHSA Lab (send via Path Lab, BRI)	Request BMT work-up profile + BMT pre PBSC collection profile under Infection Science (viral profiles) Request within 30 days of collection For Paeds minimum 14mls clotted (yellow bottles) and 8mls EDTA (purple)
Transfusion	BMT CROSS-MATCH WORK-UP (RCI)	RCI Lab, NHSBT (send via Path Lab, BRI)	Send with RCI Lab request form 1A and complete details on form in full. Write “BMT Donor” in Diagnosis section.
Transfusion	BMT Group & Save	Path Lab, BRI	Send with hospital transfusion request form selecting group and hold.
Tissue Typing	Tissue Typing HLA Class I & II	H&I Lab, NHSBT (send via Path Lab, BRI)	Send two purple EDTA bottles (8mls) with H&I Lab request form 3C , complete all details on form in full.

Form 1A can be accessed here: [RCI Test Request Form - Hospitals and Science - NHSBT \(blood.co.uk\)](https://hospital.blood.co.uk/diagnostic-services/red-cell-immunohaematology/rci-test-request-form/)

Full hyperlink: <https://hospital.blood.co.uk/diagnostic-services/red-cell-immunohaematology/rci-test-request-form/>

Form 3C can be accessed here: [H&I test request forms - Hospitals and Science - NHSBT \(blood.co.uk\)](https://hospital.blood.co.uk/diagnostic-services/histocompatibility-and-immunogenetics/hi-test-request-forms/)

Full hyperlink: <https://hospital.blood.co.uk/diagnostic-services/histocompatibility-and-immunogenetics/hi-test-request-forms/>

References:

Advisory Committee on the safety of blood, tissues and organs (2020) Version 2. *Microbiological Safety Guidelines*

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/876161/SaBTO-microbiological-safety-guidelines.pdf

Carreras, E et al. (2019) *The EBMT Handbook* https://www.ebmt.org/sites/default/files/2019-01/2019_Book_TheEBMTHandbook.pdf