## **HODS LAB HANDBOOK**

### Haemato-Oncology Diagnostic Services testing guide V2.0

HODS Web link (from N3 connection only)

### https://hods.rlbuht.nhs.uk/HODS

Requesting a HODS account:-

Please contact the laboratory at <a href="MODSEnquiries@rlbuht.nhs.uk">HODSEnquiries@rlbuht.nhs.uk</a> to request access to the HODS integrated IT system (Note this is only available from organisations that have a pre-agreed licence with the HODS service, and requires N3 connection). Required information – Full name and job role of new user, email address for password reset/result notification, organisation currently contracted to, any cross-site access if performing a multi-site role.

Password reset:-

The HODS password reset function is now automated, please enter your username and click the "reset my password" link as shown below.

This login is for authorised users only. Any unauthorised attempt to login will constitute a breach of the Computer Misuse Act 1990.
Haemato-Oncology Diagnostic Service
User Name:
Password:
☐ Remember me next time.
Log In
If you have forgotten your password or been locked out, please enter your User Name above and click the "Reset my password" link below. Your new password will be emailed to you. Reset my password

Generic accounts – No generic accounts are allowed however it is possible to utilise a group email address for result notification, contact the laboratory to discuss further.

Access from new devices/locations – For issues with access from new devices/external hospital

The LCL Haemato-Oncology Diagnostic Service (HODS) is a NICE IOG 2016 (NG 47) Peer Review compliant service in the North West of England. The service carries out primary reporting of Haematological malignancies, including all modalities of testing on liquid, solid and genetics/-omics in conjunction with Manchester Foundation Trust as part of the North West Genomics Laboratory buth

The service is located within Liverpool Clinical Laboratories (LCL) at the Royal Liverpool University Hospital Clinical Support Services Building (CSSB) and houses the Flow Cytometry, BM Aspirate morphology, Histology and Immunohistochemistry, and Molecular Genetics elements in a single integrated laboratory space with a multidisciplinary workforce.

The service is UKAS 15189 accredited with the full list of tests available online at UKAS, lab reference 9785. Any tests not currently accredited are listed on the lab handbook via the link (Medical Laboratory Accreditation link). All sections of the service are participating in UK NEQAS, ERIC, BLPG and GENQA schemes as appropriate.

#### **Key Contacts:-**

### LCL site

Clinical Director - Dr Geetha Menon (Geetha.Menon@liverpoolft.nhs.uk)

Solid Tissue Lead – Dr Igor Racu-Amoasii (<u>Igor.Racu-Amoasii@liverpoolft.nhs.uk</u>, 0151 706 5157)

Liquid leads – Dr Rachel Wells (<u>Rachel.wells@liverpoolft.nhs.uk</u>, 07764944569) /Tracey Smith-Straney (<u>Tracey.Smith-Straney2@liverpoolft.nhs.uk</u>) 0151 706 4334

Service Lead – Anthony Carter (<u>Anthony.Carter@liverpoolft.nhs.uk</u> 0151 706 4335)

Senior Clinical Scientist – Lihui Wang (<u>lihui.Wang@liverpoolft.nhs.uk</u>) 0151 704 4326

Laboratory Manager – Sarah Crawford (Sarah.Crawford@liverpoolft.nhs.uk, 0151 706 4334)

### Section Leads:

Immunophenotyping – David Lawton (<u>David.Lawton@liverpoolft.nhs.uk</u>) Histology - Lynda Bowes (<u>Lynda.Bowes@liverpoolft.nhs.uk</u>, 0151 706 4334)

Molecular - Gillian Johnson (Gillian.Johnson@liverpoolft.nhs.uk, 0151 706 4326)

Generic email address for queries – <u>HODSEnquiries@rlbuht.nhs.uk.</u> <u>HODSEnquiries@liverpoolft.nhs.uk</u>

locations please contact the lab for further support – HODSEnquiries@liverpoolft.nhs.uk	Generic address for MDT lists/MDT queries – HODSMDT@rlbuht.nhs.uk
Requests from results- Please note the stated TAT figures for the tests listed below. It is important to note that Episodes may have additional Molecular/Cytogenetic tests added based on morphological review/immunophenotyping. The TAT for the add-on tests starts the day the team receive the request. For an interim report contact the laboratory directly, however interim reports may be subject to change and any action taken based on interim findings is the responsibility of the requesting clinician.  Clinically urgent samples will be prioritised where possible but contact the laboratory for estimated report date where necessary.	Liverpool site (based at Liverpool Women's Hospital)  Cancer programme lead (Liverpool site) – Julia Kenyon – Julia.kenyon@mft.nhs.uk  Principal Clinical Scientist – Sarah Flynn – Sarah.flynn3@mft.nhs.uk  All Cytogenetic based enquiries – duty scientist account - mft.genetics-oncology@nhs.net
Times of operation and service	Main LCL site: - Mon – Friday 08:30 – 17:00 (Flow cytometry On Call service 09:00 – 17:00 for selected Bank Holidays – Call before sending any samples, details will be available on the HODS system noticeboard)  MFT site (Liverpool site based at Liverpool Women's Hospital)
	Mon-Fri 9:00 – 17:00 (core hours)
Details on how to fill in the request form or make a test request.	ALL_HODS requests should be made_via the HODS integrated IT system (contact the laboratory for details). Once access is granted to the integrated IT system the Help section contains the details of how to complete a request. A downtime form is available for requests to be send where access to the integrated system is not possible, please contact the lab on 0151 706 4334 before sending samples using the downtime form, or for further details.
Guidance on how to prepare the patient (if relevant)	No specific preparation unless detailed in the individual test requirements  — Contact the laboratory BEFORE taking samples if there are any specific queries.
Detail the collection and handling of primary samples	As detailed below.
Any additions, exclusions, or deviations from the documented collection procedure, how to record these changes and how to communicate this to relevant staff	Contact the laboratory directly for specific advice for samples not listed below, or unusual/urgent requests.
Guidance for samples collected by the patient	Not applicable
Guidance on how the samples should be handled and transported	As detailed below
Guidance on obtaining patient consent, if required. Provide information of the clinical procedure that the patient will be undergoing to ensure the patient is informed prior to consent.	Local consent should be sought where applicable. For Whole Genome sequencing (WGS), consent forms are available in the documents section of the HODS integrated software system. Completed consent forms can be uploaded to the patients HODS episode as required. If a request is sent for testing to the HODS department that would have required prior consent the laboratory will treat these as having received local consent unless told otherwise. If a patient withdraws consent please notify the laboratory at the earlies possible opportunity.

Criteria for accepting or rejecting samples according to the laboratory	Samples will be dealt with in. accordance with the organisations Minimum Data standards policy (Available on the LCL lab handbook), For precious
	samples please contact the laboratory if there is a deviation from these standards.
	To summarise, samples may be rejected for the following reasons:  • Samples and request form do not show at least three identical patient identifiers.
	<ul> <li>No patient name or mismatched name.</li> <li>The sample is in the incorrect collection media.</li> </ul>
	<ul> <li>The sample is not of sufficient volume.</li> <li>The sample is too old (greater than 3 days old for certain tests)</li> </ul>
	<ul> <li>No NHS number – this is mandatory.</li> <li>No indication (YES/NO) of whether the sample is High Risk (ensure the Pathogen is recorded on the form).</li> </ul>
	It is the responsibility of the person collecting the sample to ensure it is correctly labelled.
Whom to contact should clinical advice be required prior to ordering the examination procedure(s)	HODS requests should be made by consultant Haematologists, or those designated to make requests on their behalf. Clinical advice queries should be directed to the Liquid/Solid tissue section leads if they cannot be answered by the requesting consultant.
Information on the laboratory policy regarding protection of personal information	See link on general information on lab handbook home page.
Guidance on how to file a complaint according to laboratory procedure	Please contact the service lead or laboratory manager in the event of wishing to raise a complaint.  Anthony.Carter@liverpoolft.nhs.uk Sarah.Craford@liverpoolft.nhs.uk
	<u>Jaran. Oranoro enverpoont. mis. ak</u>
Guidance on how to deal with verbal examination requests, and ensure that this is confirmed with a request form	Additional verbal requests will be dealt with by the staff within the HODS service, and the details recorded within the actions tab of the specific patient Episode. A repeat request form will not usually be required but may be requested in certain circumstances.
Guidance for requesting clinical information	All relevant clinical information should be entered onto the integrated
that is relevant to, or could affect the sample collection, examinations process(es), or interpretation of results	HODS software system at request entry. Any additional information can be added by the user to the clinical details section of the appropriate Episode, and an email to <a href="https://example.com/HODSEnquiries@rlbuht.nhs.uk">HODSEnquiries@rlbuht.nhs.uk</a> informing HODS personnel of the change would be expected.

Instructions for the standardised way to label primary sample containers such that they can be linked back to the patient correctly to ensure the identification of the patient from whom the primary sample is collected from, record the person collecting the primary sample, with collection date, collection time.		The sample label should (local Hospital number is samples, initials of personal person	s optional), d.o.b, D	ate and time of	
Additional Sample Requirements.		Please ensure a separate possible, e.g.one tube for morphology, one for Cyt. The lab will try and maxi cannot guarantee that all numbers/volumes of san	or Immunophenotypogenetics/FISH and mise the use of smill tests can be done	ing, one for Ās d one for Moled all volume/sing	pirate cular genetics. gle samples but
Delay to results.		User will be notified of a urgency, otherwise any s at each site and be deta	system delays will b	e communicat	ed to key users
		Molecular TEST SPECIFIC ITEMS			
Types of clinical services provided by the laboratory including those that are sent to a referral laboratory	Provide instructions for the collection of patient samples to include: -How to ensure that the patient has fulfilled the pre-examination requirements? -Descriptions of the primary sample containers including additives and collection specific instructions -Information regarding the handling, transport, processing -Instructions on how to store the samples correctly prior to being delivered to the laboratory -Instructions on how to safely dispose of those materials used for the collection	Guidance for pre- collection activities to include: -How to request the type of sample and the amount to collect -Any specific timing of collection, if relevant.	Provide instructions on how to package collected samples for transportation. State any specified transportation of samples time frame relevant to the examination	Details of the examinatio n processes including sample requiremen ts, turnaround times, biological reference intervals, and clinical decision values	Information listing those factors that could affect the examination processes and therefore the results and its interpretation

BCR::ABL KDM	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
BCR::ABL Screening	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
BCR::ABL Quantitation	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
BRAF V600 hotspot	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
BTK codon 481	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A

C-KIT D816V	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
MLL-PTD	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
MPN NGS Panel	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
FIP1L1::PDGFRA	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
FLT3-ITD	Molecular lab RLUH		No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A

FLT TKD	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
IGHV Mutation	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
inv(16)(p13.1q22) CBFB-MYH11 RT- PCR	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
Lymphoid NGS panel	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
MYD88 hotspot mutation	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A

Myeloid familial NGS panel	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
Myeloid NGS panel (RLUH) mutation and fusion.	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
NPM1 MRD	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
AML MRD	Molecular lab RLUH/MFT/Other specialist centre.	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
ALL MRD	Molecular lab RLUH/MFT/Other specialist centre.	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A

t(15;17)(q24;q21) PML-RARA RT-PCR	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
t(8;21)(q22;q22) RUNX1-RUNX1T1 RT- PCR	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
TP53 Gene Mutation Screen	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
NPM1 screening	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
PML::RARA screening	Molecular lab RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A

## **Histology**

#### TEST SPECIFIC ITEMS

Types of clinical
services provided by
the laboratory
including those that
are sent to a referral
laboratory
<b>,</b>

Provide instructions for the collection of patient samples to include: -How to ensure that the patient has fulfilled the pre-examination requirements? -Descriptions of the primary sample containers including additives and collection specific instructions -Information regarding the handling, transport, processing -Instructions on how to store the samples correctly prior to being delivered to the laboratory -Instructions on how to safely dispose of those materials used for the collection

Guidance for precollection activities to include:

-How to request the type of sample and the amount to collect -Any specific timing of collection, if relevant. Provide instructions on how to package collected samples for transportation State any specified transportation of samples time frame relevant to the examination

Details of the examinatio n processes including sample requiremen ts, turnaround times, biological reference intervals,

and clinical

decision

values

Information listing those factors that could affect the examination processes and therefore the results and its interpretation

Histology – fixed specimen

Sample should be collected and put into 10% buffered formalin solution. Sample MUST be labelled with patient details and the date and time the sample was placed into the formalin. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Storage overnight should be at room temperature. No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).

No specific preexamination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible. No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible). 14 Days for clinically urgent cases, 21 days for non-urgent cases.

Samples must be sent in 10% neutral buffered formalin at a ratio of 1 in 10. Failure to do so may result in a poor-quality final product that would affect diagnostic review.

	Dispose of materials used for collection as per local policy.				
Histology – Fresh specimen	Solid tissue fresh samples are not accepted for histology testing in HODS please contact HODS 0151 706 4334 HODSEnquiries@rlbuht.nhs.uk for further information and advice.	N/A	N/A	N/A	N/A
Histology – Referral Block/Slides	Referral centres must send labelled blocks (with origin hospital labelling i.e. unique patient identifier) and labelled slides (with a minimum patient surname and origin hospital specimen number/patient identifier). Referral centre MUST send the original patient FFPE block to HODS for testing. Original slides from the referral hospitals will be reviewed alongside diagnostic slides produced from the HODS solid tissue section. If the block has not been sent, then it will be requested before review can commence.	Referral FFPE blocks and slides should be sent to HODS with detailed patient notes to aide with the diagnostic process. They should be sent to the laboratory by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	14 Days for clinically urgent cases, 21 days for non-urgent cases.	N/A
T Cell Gene rearrangement	Histology RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity and clinical urgency)	N/A
B Cell Clonality Studies	Histology RLUH	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	TAT as per NHGSE genomic guidelines (3, day, 14 day 21 day depending on complexity	

	<del>.</del>	<del>-</del>	<del>-</del>	<del></del>	-
	'			and clinical	
	<u> </u>			urgency)	
	Immunop	henotyping/BM	<u> Aspırate</u>		
		TEST SPECIFIC ITEMS			
Types of clinical services provided by the laboratory including those that are sent to a referral laboratory	Provide instructions for the collection of patient samples to include: -How to ensure that the patient has fulfilled the pre-examination requirements? -Descriptions of the primary sample containers including additives and collection specific instructions -Information regarding the handling, transport, processing -Instructions on how to store the samples correctly prior to being delivered to the laboratory -Instructions on how to safely dispose of those materials used for the collection	Guidance for precollection activities to include: -How to request the type of sample and the amount to collect -Any specific timing of collection, if relevant.	Provide instructions on how to package collected samples for transportation State any specified transportation of samples time frame relevant to the examination	Details of the examinatio n processes including sample requiremen ts, turnaround times, biological reference intervals, and clinical decision values	Information listing those factors that could affect the examination processes and therefore the results and its interpretation
Bone Marrow Aspirate	No specific pre- examination requirements Sample should be collected into EDTA tube (minimum fill volume 0.5ml for Bone Marrow). Please send bedside spread slides where possible (4-6 slides is sufficient)  Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Storage overnight should be at 4°C, but this will affect morphology, so	No specific pre- examination requirements.  Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Storage should be at 4°C overnight, but this will affect morphology, so bedside slides are requested in addition to the EDTA samples.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	14 Days	

Review of Stained	bedside slides are requested in addition to the EDTA samples.  No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).  Dispose of materials used for collection as per local policy.	N/A	No specific	7 Days	N/A
slides	requirements as material has been fixed and stained.		transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).		
Trial Bone Marrow	For use by research team	As per the requirements of the clinical trial	As per the requirements of the clinical trial	N/A	
Immunophenotyping (all samples excluding: Ascitic Fluid (AF), Cerebrospinal Fluid (CSF), Pleural Fluid (PF) and Pericardial Fluid (PCF)	No specific pre- examination requirements Sample should be collected into EDTA tube (4ml tube is sufficient – minimum fill volume 0.5ml for Bone Marrow, 1ml for Peripheral Blood).  Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Storage overnight should be at 4°C, but this will affect morphology, so bedside slides are requested in addition to the EDTA samples.  No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible). Dispose of materials used for collection as per local policy.	No specific pre- examination requirements.  Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Storage should be at 4°C overnight, but this will affect morphology, so bedside slides are requested in addition to the EDTA samples.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	7 days	Strict processing cut off time of 72 hours post collection

CLL MRD	Sample should be collected into EDTA tube (4ml tube is sufficient – minimum fill volume 1.0 ml for Bone Marrow, 4ml for Peripheral Blood). Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Storage should be at 4°C overnight. No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible). Dispose of materials used for collection as per local policy.	No specific pre- examination requirements. Samples must be sent to the laboratory on the day they are taken, to arrive by 2pm.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	7 days	Strict processing cut off time of 72 hours post collection
Myeloma MRD	Sample should be collected into EDTA tube (4ml tube is sufficient – minimum fill volume 1.0 ml for Bone Marrow, 4ml for Peripheral Blood). Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Storage should be at 4°C overnight. No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible). Dispose of materials used for collection as per local policy.	No specific pre- examination requirements. Samples must be sent to the laboratory on the day they are taken, to arrive by 2pm.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	7 days	Strict processing cut off time of 72 hours post collection
Ascitic Fluid Morphology/Immunoph enotyping	No specific pre- examination requirements Sample should be collected into plain universal container (or equivalent) without anticoagulant — minimum fill volume 2ml Samples should be sent to the laboratory on the day they are taken, to arrive by	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	7 days	Strict processing cut off time of 72 hours post collection

	4pm. If unavoidable storage should be at 4°C overnight but this will affect morphology, so not recommended for these samples. No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible). Dispose of materials used for collection as per local policy.				
Pericardial fluid Immunophenotyping	Sample should be collected into EDTA tube (4ml tube is sufficient – minimum fill volume 2ml). Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Storage should be at 4°C overnight, but this will affect morphology.  No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).  Dispose of materials used for collection as per local policy.	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	7 Days	Strict processing cut off time of 72 hours post collection
CSF – Morphology/Immunoph enotyping	No specific pre- examination requirements Sample should be collected into plain universal container (or equivalent) without anticoagulant, minimum volume 0.5ml Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. If unavoidable delay and Immunophenotyping is required, then transfer of material to Transfix tube will stabilise the	No specific pre- examination requirements. Samples must be sent to the laboratory on the day they are taken, to arrive by 4pm. In exceptional circumstances samples may be taken into transfix for overnight storage at 4C.	Samples CANNOT be sent via the pod system. If samples are to arrive in the HODS laboratory after 4pm, or on a weekend they MUST be sent on Transfix preservative tubes, otherwise they will be reported as unsuitable.	7 days	Strict processing cut off time of 72 hours for immunophen otyping on samples placed on Transfix preservative tube

	sample for 72 hours - contact your local laboratory to obtain a Transfix tube. Note, morphological assessment cannot be performed on CSF placed in Transfix preservative Storage of CSF in Transfix should be at 4°C.  No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).				
	placed in Transfix preservative Storage of CSF in Transfix should be at 4°C.  No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where				
	used for collection as				
Dloural Fluid	per local policy.	Dro examination	No aposifia	7 days	Strict
Pleural Fluid Morphology/Immunoph enotyping	Pre-examination requirements – Negative COVID test no more than 72 hours prior to sample date. Sample should be collected into plain universal container (or equivalent) without anticoagulant. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. If unavoidable storage should be at 4°C overnight but this will affect morphology.	Pre-examination requirements – Negative COVID test no more than 72 hours prior to sample date.  Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	7 days	Strict processing cut off time of 72 hours post collection
	requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).				

PNH Screen	Peripheral blood sample collected into EDTA tube (4ml tube is sufficient – minimum fill volume 2ml). Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Storage should be at 4°C overnight, but No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible). Dispose of materials used for collection as per local policy.	Please indicate if the patient has been transfused up to 3 months prior to the sample being collected: only WBC testing will be reported on samples where a patient has received a red cell transfusion within the last 3 months.  No specific preexamination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	5 Days	Strict processing cut off time of 72 hours post collection

# **MFT Genetics**

### TEST SPECIFIC ITEMS

		TEST SPECIFIC TIEMS			
Types of clinical services provided by the laboratory including those that are sent to a referral laboratory	Provide instructions for the collection of patient samples to include: -How to ensure that the patient has fulfilled the pre-examination requirements? -Descriptions of the primary sample containers including additives and collection specific instructions -Information regarding the handling, transport, processing -Instructions on how to store the samples correctly prior to being delivered to the laboratory -Instructions on how to safely dispose of those materials used for the collection	Guidance for pre- collection activities to include: -How to request the type of sample and the amount to collect -Any specific timing of collection, if relevant.	Provide instructions on how to package collected samples for transportation State any specified transportation of samples time frame relevant to the examination	Details of the examination processes including sample requirements, turnaround times, biological reference intervals, and clinical decision values	Information listing those factors that could affect the examination processes and therefore the results and its interpretation

			<u> </u>		
Conventional	1-2ml bone marrow	No specific pre-		TAT as per	
Cytogenetics	aspirate in transport	examination		NHGSE	
(Karyotyping)	media (provided by	requirements.		genomic	
	cytogenetics	Samples should be		guidelines	
	laboratory).	sent to the laboratory		(7 day, 14	
		on the day they are		day 21 day	
	If bone marrow	taken, to arrive by		depending	
	aspirate is not	4pm.		on clinical	
	available, peripheral	Contact MFT -		urgency)	
	blood sample collected	mft.genetics-			
	into Lithium Heparin	oncology@nhs.net			
	tube (4ml tube is				
	sufficient – minimum				
	fill volume 2ml) can be				
	attempted, provided				
	there is an excess of				
	blasts present for				
	culturing.				
	_				
	Samples should be				
	sent to the HODS				
	laboratory on the day				
	they are taken, to				
	arrive by 4pm. Storage				
	should be at 4°C				
	overnight, but				
	No specific transport				
	requirements				
	(Recommended to use				
	dedicated HODS				
	transport				
	boxes/pouches where				
	possible).				
CCE Cutogonotics	No oposific pro	No opocific pro	Comples	TATOONOR	
CSF Cytogenetics (FISH only)	No specific pre- examination	No specific pre- examination	Samples CANNOT be	TAT as per NHGSE	
(FISH OHIY)					
	requirements	requirements.	sent via the	genomic	
	Sample should be	Samples should be	pod system.	guidelines	
	collected into plain	sent to the laboratory		(3, day, 14	
	universal container (or	on the day they are		day 21 day	
	equivalent) without	taken, to arrive by		depending on clinical	
	anticoagulant,	4pm.			
	Samples should be	Contact MFT -		urgency)	
	Samples should be sent to the HODS	mft.genetics- oncology@nhs.net			
		oncology willis.net			
	laboratory on the day				
	they are taken, to				
	arrive by 4pm. Storage should be at 4°C				
	overnight, but				
	No specific transport				
	requirements				
	(Recommended to use dedicated HODS				
	transport				
	boxes/pouches where				
	possible).				
i	1		I	1	

Cytogenetics (Fresh lymph node)	No specific pre- examination requirements Sample should be in transport media (provided by cytogenetics laboratory).  Samples should be sent to the HODS laboratory on the day they are taken, to arrive by 4pm. Storage should be at 4°C overnight, but No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Contact MFT - mft.genetics- oncology@nhs.net	Must arrive the same day the sample was taken.	TAT as per NHGSE genomic guidelines (3 day, 14 day 21 day depending on clinical urgency)	
FISH	1-2ml bone marrow aspirate in transport media (provided by cytogenetics laboratory).  If FISH only testing (eg CLL, BCR/ABL1)  Peripheral blood sample collected into EDTA tube *Note: this collection tube is NOT appropriate for karyotype analysis  Samples should be sent to the HODS laboratory on the day they are taken, to arrive by 4pm. Storage should be at 4°C overnight, but No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Contact MFT - mft.genetics- oncology@nhs.net		TAT as per NHGSE genomic guidelines (3, day, 7 day, 14 day 21 day depending on clinical urgency)	

SNP Array	1-2ml bone marrow aspirate in EDTA tube  If bone marrow aspirate is not available, peripheral blood sample collected into ETDA tube (4ml tube is sufficient – minimum fill volume 2ml) can be attempted, provided there is an excess of blasts present  Samples should be sent to the HODS laboratory on the day they are taken, to arrive by 4pm. Storage should be at 4°C overnight, but No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	No specific pre- examination requirements. Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm. Contact MFT - mft.genetics- oncology@nhs.net		TAT as per NHGSE genomic guidelines (14 day 21 day depending on clinical urgency)	
Whole Genome Germline sample	Contact the HODS lab	Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	Contact the HODS laboratory	N/A
Whole Genome Tumour sample	Contact the HODS lab	Samples should be sent to the laboratory on the day they are taken, to arrive by 4pm where possible.	No specific transport requirements (Recommended to use dedicated HODS transport boxes/pouches where possible).	Contact the HODS laboratory	N/A

### **HODS** downtime request form:





Title: HODS request form

Rev. No: 1

	HODS REQUEST FORM										
Episo	de De	tails									
Episode ID			Name							Barcode	9
Reg. No.			Date of Birth	h		NHS No				Sex	
Hospital						Consultant					
Suspected	Diagnosis					Sample Res	earch Co	nsent		High Ris	sk
500 D-4-											
FBC Data HB	WBC	PLT	MCV	мсн	Neuts	Lymph	Monos	Eos	Baso	FE	BC Date
Relevant Cl	Social details										
Date First F	Oresented		Episode Cre	eated By		Created Dat	e & Time				
Date I list I	resented		Lpisode Cit	cated by		Created Dat	C & Time				
Samp	oles Ta	ken									
San	mple No		Sample Typ	ре	S	Sample Ref Date Taken			en	0	rgan
Inves	tigatio	ns Req	uired								
Sample			Sample Type	,	-	Test Request	ted	Tes	sting Depa	artment	

Doc. No:	HD-GEN-FOR-7	Approved by:	Sarah Crawford
Author:	Tony Carter	Page 2 of 2	Last printed 14/01/2015 10:16