

BM, FLOW CYTOMETRY, MOL. HAEMONC & CYTOGENETICS

PATIENT DETAILS (In BLOCK letters)

Full Name _____ Date / /

Age / Gender M F Other _____ Contact No. _____

Sample Type PB (No. of Tubes) _____ BM (No. of Tubes) _____ Other : _____
 EDTA (No. of Tubes) _____ EDTA (No. of Tubes) _____
 Heparin (No. of Tubes) _____ Heparin (No. of Tubes) _____

REFERRED BY _____ CONTACT NO.

LOCATION _____

SUSPECTED DIAGNOSIS _____

TEST TO BE PERFORMED Sample type: EDTA (~4ml)

Bone Marrow

- BM procedure aspiration and reporting BM aspirate reporting BM biopsy reporting/review

Flow Cytometry

- Acute leukaemia panel Chronic leukaemia panel Lymphocyte subset analysis (T,B,NK)
 CD 34 enumeration MRD Panel T-MRD Panel B-MRD Panel CD19/CD20 (B)
 Acute/chronic leukaemia panel PNH testing CD16+56 (NK)

Molecular Haematooncology

- BCR-ABL1 (IS) Quantitative Analysis (p210) PML-RARA detection (Quantitative Analysis)
 BCR-ABL1 multiplex for detection of transcripts Qualitative PML-RARA detection (Qualitative Analysis)
 Minor BCR-ABL1 p190 Qualitative Chimerism Study
 Minor BCR-ABL1 p190 Quantitative Split cell chimerism study
 Imatinib resistance mutation analysis (IRMA) IgVH mutation analysis for CLL
 JAK2 Panel : Exons 12 to 15 (includes V617F) Onco Haem panel by NGS DNA + RNA
(AML, MPN, MDS/MPN, MDS, CMML, JMML, aCML, ET, PMF, PV, CEL, MDS/MPN-RS-T)
 JAK2 mutation study (V617F only) Onco Haem - RNA ONLY by NGS
 Sample preservation for DNA RNA Onco Haem - DNA ONLY by NGS

DNA		RNA
HOTSPOT GENES	FULL GENES	FUSION DRIVER GENES
ABL1, BRAF, CBL, CEBPA, CSF3R, DNMT3A, FLT3, GATA2, HRAS, IDH1, IDH2, JAK2, KIT, KRAS, MPL, MYD88, NPM1, NRAS, PTPN11, SETBP1, SF3B1, SRSF2, U2AF1, WT1	ASXL1, BCOR, CALR, ETV6, EZH2, IKZF1, NF1, PHF6, PRPF8, RB1, RUNX1, SH2B3, STAG2, TET2, TP53, ZRSR2	ABL1, ALK, BCL2, BRAF, CCND1, CREBBP, EGFR, ETV6(TEL), FGFR1, FGFR2, FUS, HMGA2, JAK2, KMT2A(MLL), MECOM, MET, MLLT10, MLLT3, MYBL1, MYH11, NTRK3, NUP214, PDGFRA, PDGFRB, RARA, RBM15, RUNX 1(AML1), TCF3(E2A), TFE3

TEST TO BE PERFORMED Sample type: Sodium Heparin (~3ml)

Cytogenetics

- | | | |
|--|--|---|
| <input type="checkbox"/> Bone Marrow Karyotyping | <input type="checkbox"/> FISH for CLL panel (del(17p)(TP53), del(13q), del(11q), Trisomy 12) | <input type="checkbox"/> FISH for E2A/TCF3 detection |
| <input type="checkbox"/> FISH for IGH/BCL2 [t(14;18)] | <input type="checkbox"/> FISH for del(5q) [5q31/5q33/5p15] | <input type="checkbox"/> FISH for 17p (p53) |
| <input type="checkbox"/> FISH for MYEOV/IGH [t(11;14)] | <input type="checkbox"/> FISH for del(7q) [7q22/7q36] | <input type="checkbox"/> FISH for IgH |
| <input type="checkbox"/> FISH for BCL6 | <input type="checkbox"/> FISH for BCR-ABL1 [t(9;22)] | <input type="checkbox"/> FISH for inv(16) [CBFB-MYH11] |
| <input type="checkbox"/> FISH for AML panel [inv(16), MLL/KMT2A, PML-RARA, AML/ETO(RUNX1-RUNX1T1)] | <input type="checkbox"/> FISH for AML1/ ETO (RUNX1-RUNX1T1) [t(8;21)] | <input type="checkbox"/> FISH for MM [1q gain/amp, IGH, del(17p)(TP53), del(13q), del(11q), Trisomy 12] |
| <input type="checkbox"/> FISH for ALL panel[E2A/TCF3, MLL/KMT2A, BCR-ABL1, TEL-AML1(ETV6-RUNX1)] | <input type="checkbox"/> FISH for MDS [del(5q), del(7q), del(20q)] | <input type="checkbox"/> FISH for PDGFR A |
| <input type="checkbox"/> FISH for Trisomy 8 | <input type="checkbox"/> FISH for MLL/KMT2A (breakapart) | <input type="checkbox"/> FISH for PDGFR B |
| <input type="checkbox"/> FISH for PML-RARA detection [t(15;17)] | <input type="checkbox"/> FISH for TEL- AML1 [t(12;21) / ETV6-RUNX1] | |
| <input type="checkbox"/> Preserve sample till pellet stage | <input type="checkbox"/> FISH for 11q (ATM) | |
| <input type="checkbox"/> Other: please specify | | |

Time Point

At Diagnosis: Yes / No

If under treatment, mention the time point with date of diagnosis

Presenting Complaints

Organomegaly

Liver:

Spleen:

LN:

If LN present, specify:

Treatment History

Transfusion history (Yes/No/If yes, date of last BT): _____

Family History: _____

Other investigations done elsewhere

(CBC/BM/IPT/Cytogenetics/FISH/Molecular/Biochemistry& Serology):

Signature of Clinician

*Please note: The samples must reach the lab within 12-24 hours of collection

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