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## CHROMOSOME ANALYSIS OF BONE MARROW/BONE CORE/HEMATOLOGIC DISORDERS BLOOD/EFFUSION FLUID

**Synonym(s):** KARYOTYPE BONE MARROW/BONE CORE/HEMATOLOGIC DISORDERS BLOOD/EFFUSION FLUID

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<b>Lab Section Category</b>	<b>Cytogenetics - Cancer/Cancer FISH</b> Click here to find out more about the <b>write-up</b> ( <a href="/clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/cytogenetics.aspx">/clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/cytogenetics.aspx</a> ).
<b>Indications</b>	<ul style="list-style-type: none"> <li>- Acute Leukaemia</li> <li>- Lymphoma</li> <li>- Myelodysplastic Syndromes</li> <li>- Chronic Myeloid Leukaemia</li> <li>- Other Lymphoproliferative Disorders</li> </ul>
<b>Specimen Required</b>	Bone marrow (1.5ml - 2ml) in sterile sodium/lithium heparin. A blood specimen (5 - 10ml) in sodium/lithium heparin will yield results if blast cells are present in large numbers (preferably $\geq 25\%$ ). Blood can also be used for investigation of Lymphoproliferative Disorders (LPD), in particular, Chronic Lymphocytic Leukaemia (CLL). Do not use EDTA. The specimen should be taken from the first or second aspirate and it should not be haemodiluted. If the first aspirate of marrow is inadequate, it may be helpful to rotate the needle $180^{\circ}$ to minimise blood contamination before re-taking the marrow sample. Effusion Fluid can be taken in a sodium/lithium vacutainer.
<b>Method</b>	24-hour and 48-hour or 72-hour cultures. A stimulated culture is set up for LPD and multiple myeloma (MM).
<b>Test Result</b>	Normal or Abnormal. If Abnormal, the karyotypic abnormality is described in accordance to the International System for Human Cytogenomic Nomenclature (ISCN, 2016).
<b>Turnaround Time</b>	14 ~ 21 days
<b>Day(s) Test Set up</b>	Monday – Saturday (office hours)
<b>Remarks</b>	Indicate clearly the clinical diagnosis and white cell count (if any) on the cytogenetics request form or CPOE. This information is essential when initiating the cultures for cytogenetic analysis. Do not despatch a specimen near a weekend or a public holiday to avoid unnecessary delays.

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### Change History Notes

- **14 Nov 2012 04:07 PM**  
- Updated Specimen Required field to include Effusion Fluid.
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- **04 Dec 2015 11:45 AM**  
- Updated Turnaround Time: 14 ~ 21 days
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- **04 Jul 2017 09:26 AM**  
- Updated the test result for ISCN, 2013 to ISCN, 2016
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