Overview

Useful For
Aids in the diagnosis of joint disease, systemic disease, inflammation, malignancy, infection, and trauma, using body fluid specimens

Profile Information

<table>
<thead>
<tr>
<th>Test ID</th>
<th>Reporting Name</th>
<th>Available Separately</th>
<th>Always Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCBF_</td>
<td>Cell Count and Differential, BF</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>CRSF</td>
<td>Morphologic Review, BF</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Reflex Tests

<table>
<thead>
<tr>
<th>Test ID</th>
<th>Reporting Name</th>
<th>Available Separately</th>
<th>Always Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCMS</td>
<td>Leukemia/Lymphoma, Phenotype</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>CYTNG</td>
<td>Cytology Non-GYN</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Testing Algorithm
When abnormal cytologic features are present, the laboratory may reflex to a miscellaneous cytology test. Fee codes for that test vary depending on review process.

Method Name
Automated or Manual Cell Count/Cytocentrifugation followed by Manual Differential and Morphology Review

Stain slide with Wright-Giemsa stain.

NY State Available
No

Specimen

Specimen Type
Body Fluid

Advisory Information
For spinal fluid specimens, order CCCF / Cell Count and Differential, Spinal Fluid.

For bronchoalveolar lavage specimens, order LAV / Cell Count and Differential, Bronchoalveolar Lavage.

Shipping Instructions
Test Definition: CCBF
Cell Count and Differential, BF

Specimen must arrive within 24 hours of collection.

**Necessary Information**
Indicate specimen source.

**Specimen Required**
For Local Accounts Only

**Sources:** Synovial, pleural, peritoneal, pericardial

**Container/Tube:**

**Preferred:** Body fluid container

**Acceptable:** EDTA or heparin

**Specimen Volume:** 1 mL

**Specimen Minimum Volume**
0.7 mL

**Reject Due To**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Gross hemolysis</td>
<td>OK</td>
</tr>
<tr>
<td>Clotted Nasal fluid, sputum, amniotic fluid</td>
<td>Reject</td>
</tr>
</tbody>
</table>

**Specimen Stability Information**

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
<th>Special Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Fluid</td>
<td>Ambient (preferred)</td>
<td>24 hours</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Refrigerated</td>
<td>24 hours</td>
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**Clinical and Interpretive**

**Clinical Information**
Body fluids, other than the commonly analyzed urine and blood, include synovial, pleural, peritoneal, and pericardial fluids. These fluids may be present in increased volumes and may contain increased numbers of normal and abnormal cells in a variety of disease states.

**Reference Values**

**TOTAL NUCLEATED CELLS**

- Synovial fluid: <150/mcL
- Peritoneal/pleural/pericardial fluid: <500/mcL

**NEUTROPHILS**
Test Definition: CCBF
Cell Count and Differential, BF

Synovial Fluid: <25%
Peritoneal/pleural/pericardial fluid: <25%

LYMPHOCYTES
Synovial fluid: <75%

MONOCYTES/MACROPHAGES
Synovial fluid: < or =70%

Interpretation
Trauma and hemorrhage may result in increased red and white blood cells; RBCs predominate. WBCs are increased in inflammatory and infectious processes:

-Neutrophils predominate in bacterial infections
-Lymphocytes predominate in viral infections
-Macrophages may be increased in inflammatory and infectious processes
-Eosinophils may be increased in parasitic or fungal infections

Cautions
No significant cautionary statements

Clinical Reference

Performance

Method Description
The cells are applied to a glass slide by cytocentrifugation. Wright-Giemsa stained slides are examined by light microscopy and a differential is performed. Total nucleated cell count is determined using an automated hematology analyzer or a microscopic counting chamber. (Instruction manual: Automated Hematology Analyzer XN series [XN-1000]. Code No. CJ410539. North American Edition. November 2015)

PDF Report
No
Day(s) and Time(s) Test Performed
Monday through Sunday; Continuously

Analytic Time
Same day/1 day

Maximum Laboratory Time
2 days

Specimen Retention Time
1 week

Performing Laboratory Location
Rochester

Fees and Codes

Fees
- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact Customer Service.

Test Classification
This test has been modified from the manufacturer's instructions. Its performance characteristics were determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

CPT Code Information
89051-Cell count with differential count
88184 if applicable
88185 if applicable
88187 if applicable
88188 if applicable
88189 if applicable
88104 if applicable
88108 if applicable
88112 if applicable
88161 if applicable
88162 if applicable
Test Definition: CCBF
Cell Count and Differential, BF

88305 if applicable

**LOINC® Information**

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<thead>
<tr>
<th>Test ID</th>
<th>Test Order Name</th>
<th>Order LOINC Value</th>
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<tbody>
<tr>
<td>CCBF</td>
<td>Cell Count and Differential, BF</td>
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<table>
<thead>
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<th>Test Result Name</th>
<th>Result LOINC Value</th>
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<td>OTH11</td>
<td>Other Cells Are:</td>
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<tr>
<td>CMT81</td>
<td>Comment</td>
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</tr>
<tr>
<td>APP2</td>
<td>Gross Appearance</td>
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<td>TOT12</td>
<td>Total Nucleated Cells</td>
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<td>REV81</td>
<td>Reviewed by:</td>
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<tr>
<td>RBC1</td>
<td>Erythrocytes</td>
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<td>CMT37</td>
<td>Comment</td>
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<tr>
<td>NE_BF</td>
<td>Neutrophils</td>
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<tr>
<td>LY_BF</td>
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<td>MM_BF</td>
<td>Monocytes/Macrophages</td>
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<td>EO_BF</td>
<td>Eosinophils</td>
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<td>CMT3</td>
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<td>DCCBF</td>
<td>Download CCBF</td>
<td>No LOINC Needed</td>
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