**Lab Dept:** Anatomic Pathology  
**Test Name:** CHROMOSOMES, BLOOD (ANW)

### General Information

**Lab Order Codes:** CANW  
**Synonyms:** Chromosome Analysis, Blood; Karyotype  
**CPT Codes:** 88230 – Tissue culture for non-neoplastic disorders; lymphocyte 88262 - Chromosome analysis; analyze 15 - 20 cells  88285 – Additional cells counted, each study (if appropriate)  88283 – Additional specialized banding technique (if appropriate)  88280 – Additional karyotype (if appropriate)

**Test Includes:** 72 hour PHA stimulated culture with chromosome analysis with additional studies as indicated by findings.

### Logistics

**Test Indications:** A standard chromosome study is performed on specimens suspected of having gross chromosome changes such as trisomy of chromosome 21 or mosaicism.

**Lab Testing Sections:** Anatomic Pathology – Sendouts  
**Referred to:** Abbott Northwestern Laboratory – Cytogenetics (Test code: C40)

**Phone Numbers:** MIN Lab: 612-813-6280  
STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 7 - 14 days, testing performed daily (Stat: 3 – 7 days)

**Special Instructions:** Request form must include date and time of specimen collection, attending physician, diagnosis (or reason for referral), clinical status, information regarding medication or transfusions, and specimen type.

### Specimen

**Specimen Type:** Whole blood  
**Container:** Green top (Na heparin) tube
| **Draw Volume:** | Children: 3 – 5 mL blood  
Infants: 1 – 2 mL blood  
Adults: 5 – 10 mL blood |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processed Volume:</strong></td>
<td>Same as Draw Volume</td>
</tr>
<tr>
<td><strong>Collection:</strong></td>
<td>Routine venipuncture</td>
</tr>
</tbody>
</table>
| **Special Processing:** | Lab Staff: Use ANW request form B. Call (612-863-454, Cytogenetics MOB-402) prior to sending specimen or to request a pick-up.  
Include physician’s name and phone number.  
Inform if specimen is to run stat. If the specimen is stat and on a newborn, the specimen needs to be delivered ASAP and will be set up immediately. (Note: No one staffs ANW cytogenetics from 7pm – 11pm but specimens should be delivered any way and the specimen will be set up when the night staff arrives.) |
| **Patient Preparation:** | None |
| **Sample Rejection:** | Frozen or refrigerated specimen; mislabeled or unlabeled specimens |

**Interpretive**

| **Reference Range:** | Interpretive report |
| **Methodology:** | Determined by Laboratory Director based on clinical information. |
| **References:** | Abbott Northwestern Cytogenetics Lab (April 2010) |
| **Updates:** | 3/21/2007: ANW order code previously listed at 435.  
4/14/2010: ANW order code previously listed as CSBLD |