

**CONGENITAL CHROMOSOME STUDIES:**

<b>BILLING CODE / NAME</b>	<b>SPECIMEN TYPE</b>	<b>COLLECTION</b>	<b>TAT</b>	<b>CPT CODING</b>	<b>CODING DESCRIPTION</b>
CSAF / Amnio Chromosome Study	Amniotic Fluid	20 cc Draw in sterile syringe and transfer to a sterile tissue culture tube. Discard first 2 mls. Send at room temperature.	7-14 days	88235 88269 88280	Culture - amniotic fluid In Situ Analysis - 6-12 colonies 1 karyogram Additional karyogram
CSCV / Chorionic Villi Chromosome Study	Chorionic Villi	10-30 mg placed in Hanks Balanced Salt Solution (HBSS) or sterile saline. Send at room temperature.	6-14 days	88235 88267 88280 88285	Culture - CVS Analysis – 15 cells, 1 karyogram Additional karyogram Additional cells counted
CSPSK / POC/ SKIN / AUTOPSY Chromosome Study	Products of Conception/ Skin Biopsy/ Autopsy	3 mm <sup>3</sup> chorionic villi (preferred), 50 mg placenta, 1 cm <sup>3</sup> internal tissue, and 3 mm <sup>3</sup> skin biopsy (internal tissue). Place specimen in sterile saline, RPMI or HBSS. Send at room temperature. Refrigerate sample if not sent the same day. <b>NOTE: Do not place specimen in formalin.</b> <b>NOTE: Do not send entire fetus or placenta.</b>	6-21 days	88233 88262	Culture - solid tissue, skin Analysis - 20 cells, 2 karyograms
CSBLD / Standard Blood Chromosome Study	Peripheral Blood or Cord Blood	5 cc for Adult 2 cc for Children/Infants Draw in sterile sodium heparin whole blood tube. Send at room temperature.	Neonatal STAT: Performed on request 48 hr oral prelim or 72 hr oral prelim; 7 day final report Routine: 7-21 days	88230 88262	Culture - blood Analysis - 20 cells, 2 karyograms

BILLING CODE / NAME	SPECIMEN TYPE	COLLECTION	TAT	CPT CODING	CODING DESCRIPTION
CSHR / High Resolution Blood Chromosome Study	Peripheral Blood	5 cc Draw in sterile sodium heparin whole blood tube. Send at room temperature.	7-21 days	88230 88262 88280 88289	Culture - blood Analysis - 20 cells, 2 karyograms Additional karyogram High resolution study
CSPUB / PUBS Chromosome Study	Percutaneous Umbilical Blood Sampling	1-5 cc drawn in sterile sodium heparin whole blood tube. 1 cc fetal blood drawn in EDTA (purple top) tube for Kleihauer- Bettke test for maternal hemorrhage. Send at room temperature.	STAT: 2 day oral prelim, 7 day final	88230 88262	Culture - blood Analysis - 20 cells, 2 karyograms

**Amniotic Fluid Chromosome Study:** Specimens will be set up on multiple coverslips. An In situ culture method is performed whenever possible. Analysis of fifteen G-banded metaphases derived from 15 colonies (growth dependent) are attempted. Two karyograms are prepared per cell line. For all amniotic fluid samples, an aliquot of supernatant is saved for 6 weeks from receipt of specimen in case send out testing is needed.

**Chorionic Villi Sampling Chromosome Study:** Specimens will be set up on multiple coverslips. A minimum of twenty G-banded metaphases are studied with two karyograms prepared per cell line.

**Products of Conception/Autopsy Chromosome Study:** Several tissues should be sent to ensure the best culture success. Chorionic villi and internal tissue is preferred over skin samples. Specimens will be set up on multiple coverslips. A minimum of twenty G-banded metaphases are studied with two karyograms prepared per cell line.

**Skin Biopsy Chromosome Study:** It is important to get a deep enough sample to attain viable cells for culture. A 3mm<sup>3</sup> biopsy is preferred. Specimens will be set up on multiple coverslips. A minimum of twenty G-banded metaphases are studied with two karyograms prepared per cell line.

**Peripheral Blood Standard Chromosome Study:** Two cultures are set up with each sample whenever possible. A minimum of twenty G-banded metaphases are studied with two karyograms prepared per cell line.

**STAT Neonatal Blood Chromosome Reporting:**

Three cultures are set up with each sample whenever possible. A STAT oral preliminary report on newborn samples is provided at either 48 or 72



hours upon request. A STAT preliminary report is based on a six-cell screen and one minimum banded karyogram. For all STAT samples, a final written report will follow within 7 days. A minimum of twenty G-banded metaphases are studied with two karyograms prepared per cell line.

**Peripheral Blood High Resolution Chromosome Study:** Two cultures are set up with each sample whenever possible. A minimum of twenty G-banded metaphases are analyzed with three karyograms prepared per cell line. A high-resolution study consists of clearing banding of all chromosome pairs  $\geq 700$  band length. If analysis fails to clear all bands at  $\geq 700$  bands, the test will be downgraded to a Peripheral Blood Standard Chromosome Study. Infant bloods have shown to be more difficult to attain  $\geq 700$  band length and are not recommended for high resolution analysis.

**PUBS Chromosome Study:** Three cultures are set up with each sample whenever possible. This test is performed STAT (see above STAT information). Twenty G-banded metaphases are studied with a minimum of two karyograms prepared per cell line. It is recommended a Kleihauer-Bettke test be performed to rule out maternal hemorrhage. Refer to the AML on-line collection manual for test requirements