Your Partner for Genetic Testing

With more than 25 years of genetic testing experience, Integrated Genetics provides high quality results and reporting, so that you can provide the best care to your patients.
Prenatal Diagnosis of Chromosome Abnormalities

Cytogenetics and FISH

Integrated Genetics provides chromosome analysis for:

- Amniocentesis samples
- Chorionic villi samples (CVS)
- Products of conception (POC)
- Peripheral blood
- Percutaneous umbilical blood sampling (PUBS)
- Tissue biopsy

A history of success in cytogenetics and FISH

- We set the standard for 7-day results when other labs had 4-week turnaround times.
- We developed and use our own proprietary culture media to achieve high culture success rates for amniotic fluid, CVS and POC.
- We were the first commercial laboratory to offer metaphase FISH in the United States.
- We were the first laboratory to offer interphase FISH (InSight®) for rapid screening of prenatal samples.

Why use Integrated Genetics for chromosome analysis?

1. Clinical expertise
   We have a large team of board-certified geneticists and genetic counselors who closely monitor your testing and call your office directly with abnormal test results. Our team has in-depth knowledge of cytogenetic and fluorescence in situ hybridization (FISH) analyses and has extensive experience with difficult and unusual cases.

2. Extensive managed care coverage
   Our cytogenetic services are covered by the vast majority of health insurers.

3. Outstanding culture success rates
   Our laboratory staff are highly skilled in cytogenetics and achieve outstanding culture success rates. We attain greater than 99% culture success rates for amniocentesis, CVS, and blood samples, and nearly 85% culture success rate for POC, using our proprietary culture media.

![Culture Success Rates](chart.png)
4. **Fast turnaround times**

Our 7-10 day turnaround time for amniocentesis and chorionic villi samples helps to reduce anxiety patients feel while awaiting test results. For faster preliminary results, InSight analysis, using FISH, is available in 1 to 2 days.

**InSight Analysis – Rapid Interphase FISH**

**InSight provides:**
- Rapid, reliable screening for numeric chromosomal abnormalities using FISH
- Results in 1 to 2 days
- Results for amniocentesis, CVS, PUBS and newborn blood samples
- Identification of chromosome 13, 18, 21, X and Y aneuploidies

**Indications:**
- Unusually urgent cases
- Late gestational age (20-22 weeks)
- Abnormal ultrasound or maternal serum screening results
- High-risk pregnancies
- Parental Robertsonian translocation involving chromosome 13 or 21
- Pregnancies at risk for X-linked disorders

5. **Excellent quality assurance**

We offer a client-specific reporting program in which we actively monitor success rates and work closely with you and your staff to implement protocols to improve outcomes.
Case Study: DiGeorge Syndrome

A physician performed amniocentesis on a 24 year-old patient after observing abnormalities on her ultrasound. Since he indicated a cardiac defect on the Integrated Genetics test requisition, one of our genetic counselors called his office to alert him that DiGeorge syndrome has been found to occur in 3% of fetuses with a cardiac defect and normal chromosome results. The physician decided to order FISH testing for the microdeletion associated with DiGeorge syndrome, 22q11, if the routine chromosome analysis was normal. Chromosome analysis showed a normal male karyotype, but the FISH analysis was abnormal, indicating that the fetus was affected with DiGeorge syndrome. This information helped the patient make an informed decision regarding her pregnancy.

Continuity of prenatal genetic services

Our prenatal diagnostic program is complemented by a broad offering of maternal serum screening and molecular diagnostics, as well as AF-AFP, AChE and fetal hemoglobin. Special studies can be coordinated for specimens requiring additional testing. If you have any questions or need shipping kits, model patient consent forms, additional test requisitions or patient education materials, please contact your Client Services representative at (800) 848-4436.

Integrated Genetics provides:

- Genetic experts who are available to answer questions
- Clear, easy-to-interpret reports and immediate communication of abnormal results
- An extensive online patient education resource to answer your patients’ reproductive testing questions at www.mytestingoptions.com

To learn more about prenatal diagnosis of chromosome abnormalities, please visit www.mytestingoptions.com and www.integratedgenetics.com or call (800) 848-4436.