The first trimester screening (FTS) is a non-invasive way to estimate the chance for three common chromosome abnormalities in pregnancy.

Trisomy 21, also known as Down syndrome, is associated with mild to moderate mental retardation, heart problems, muscle weakness, and other birth defects.

Trisomy 18 and Trisomy 13 are associated with severe mental retardation and birth defects. These pregnancies usually result in miscarriage, stillbirth, or infant loss.

Any pregnancy could have one of these three conditions, even when the family history is normal.

WHO SHOULD CONSIDER THE FTS?
The FTS is recommended for pregnant women of any age who would like early information about the health of a pregnancy without invasive testing. Serious chromosomal abnormalities are more commonly associated with pregnancies in women age 35 and older, but they can occur at any age. In fact, more babies with Down syndrome are born to women under age 35.

WHAT IS THE FTS?
The FTS is a non-invasive tool that combines a blood test, a specialized ultrasound, and your age. This information provides a powerful, personalized risk assessment for your current pregnancy. It detects up to:

- 95% of pregnancies with Down syndrome, and
- 95% of pregnancies with Trisomy 18 or Trisomy 13.

This screening process is significantly more accurate and available earlier in pregnancy than the second trimester blood test (quadruple screen) for Down syndrome and other conditions. However, no screen can assess the risk for every chromosome abnormality, genetic disease, or birth defect.

THE FTS OFFERS EVERY PREGNANT WOMAN:

- A personalized risk assessment instead of a generic risk based only on your age.
- The most accurate non-invasive screening available in pregnancy.
- Earlier information than second trimester options.
- An individualized risk for each twin or triplet in a multiple gestation pregnancy.

IF YOU ARE 35 AND OVER, THE FTS ALSO OFFERS YOU:

- A non-invasive first step to determine if diagnostic testing is appropriate for you.
- Additional information to help you choose between follow-up options.
HOW IS THE FTS PERFORMED?
At your FTS appointment, you will have an ultrasound and a blood draw. The blood sample is used to measure the concentration of two proteins, PAPP-A (pregnancy associated plasma protein A), and free β-hCG (free-beta human chorionic gonadotropin). These proteins are released into the maternal blood in every pregnancy. The ultrasound looks for the presence of the fetal nasal bone and measures the nuchal translucency. The nuchal translucency is a fluid filled area at the back of the fetal neck, present in every pregnancy. Information from the blood test and ultrasound are combined with your age to generate your result. The personalized results will describe the risks for Down syndrome and for Trisomy 18 or Trisomy 13 in your pregnancy.

WHEN SHOULD I HAVE MY FTS?
The FTS ultrasound is performed during a specific window of time based on fetal size. For most women, this begins during the 11th week and continues through the 13th week of pregnancy. The blood work can be done at the same time, or in the two weeks prior to the ultrasound. For convenience, most women will have their ultrasound and blood work completed at the same appointment.

HOW WILL I GET MY FTS RESULTS?
The Genetics & IVF Institute (GIVF) has on-site genetic counselors who will meet with you on the day of your ultrasound and call you with your FTS results, generally less than a week after your appointment. Genetic counselors have extensive training in prenatal screening and a thorough understanding of the test implications; they will explain the results to you and answer your questions.

WHAT WILL MY FTS RESULTS TELL ME?
The genetic counselor will give you two results. The first result is the chance for Down syndrome. The second result is the chance for Trisomy 18 or Trisomy 13. These results are expressed as probabilities, such as 1 in 1000 (low risk) or 1 in 100 (high risk). The genetic counselor will explain your personalized results and what they mean for your pregnancy.

Most women’s results are normal and provide reassurance that further screening or invasive testing for chromosome abnormalities is probably not necessary. Some women may be offered further blood screening options. Other women will be offered diagnostic follow-up testing, such as chorionic villus sampling (CVS) or amniocentesis.

All follow-up options are elective. You will be able to decide what next steps (if any) are right for you based on your FTS results, pregnancy history, and personal preferences.

WHAT ELSE COULD MY FTS TELL ME?
Enlargement of the nuchal translucency indicates that the fetus has an increased risk for chromosome abnormalities. An enlarged nuchal translucency can also be seen in some pregnancies with a heart defect or a rare genetic disorder. Additional testing or follow-up procedures may be recommended for later in pregnancy.

WHY SHOULD I HAVE MY FTS AT GIVF?
For your convenience, GIVF gives you the option of completing the blood work and ultrasound on the same day. Alternative scheduling can be arranged.

You will meet with a genetic counselor on the day of your appointment. The counselor will answer your questions about the screening and inform you of your ultrasound findings. She will also speak to you about your genetic family history.

The genetic counselor will call you directly with your FTS results. This is another opportunity to ask questions and review possible follow-up options based on the ultrasound or family history information.

Patients with abnormal results have immediate access to genetic counselors and often same day diagnostic testing if necessary.

GIVF is the only local center that provides the complete range of patient support, non-invasive screening, and diagnostic testing. This continuity of care ensures you get complete and accurate information as quickly as possible.

The FTS is only accurate when performed by certified professionals. The staff of GIVF is highly skilled and certified by The Fetal Medicine Foundation.

HOW TO SCHEDULE AN APPOINTMENT
Contact GIVF early in your pregnancy to schedule an appointment.
(703) 698-7355  www.givf.com  givf@givf.com
You will be asked to provide the due date given to you by your obstetrician when scheduling your appointment.