

# University of North Carolina at Chapel Hill

## Department of Ob/Gyn

### Partner Clinic Information

	Any time after 10 weeks	First trimester		Second trimester		
	Screening Test	Screening Test	Diagnostic Test	Screening Test		Diagnostic Test
Name	Non-invasive prenatal screening (NIPS) (also called NIPT or cfDNA screening)	First trimester screening	CVS	Quad screen	Genetic sonogram	Amniocentesis
Available to	All patients*	<b>Not offered during COVID-19</b>	All patients	All patients	Patients with a risk factor	All patients
Timing	After 10 weeks	12 to 13 6/7 weeks	11 to 13-6/7 weeks	15 to 22-6/7 weeks	19-20 weeks	After 15 weeks
Detection Rate for singleton pregnancies	>99% for Down syndrome 96-98% for trisomy 18 91-99% For trisomy 13	~85% for Down syndrome ~90% for trisomy 18/13	>99% accuracy for chromosome abnormalities	~80% for Down syndrome 60% for Trisomy 18 80% for NTDs	~50% for Down syndrome ≥90% for trisomy 18/13 ~95% for NTDs (in qualified centers)	>99% accuracy for chromosome abnormalities
Risk	n/a	n/a	1/500 risk for miscarriage	n/a	n/a	1/900-1/1000 risk for miscarriage
Results	10-14 days	1 week	10-14 days (specialty testing may take longer)	1 week	Same day	10-14 days (specialty testing may take longer)

\*All patients can have NIPS. Data is limited in twin pregnancies. Insurance coverage varies. Financial assistance broadly available for uninsured or underinsured patients.



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#### References:

1. ACOG Practice Bulletin Number 187, December 2016. Neural Tube Defects.
2. ACOG Practice Bulletin Number 163, May 2016. Screening for Fetal Aneuploidy.
3. Perni SC, Predanic M, Kalish RB, et al. Clinical use of first-trimester aneuploidy screening in a United States population can replicate data from clinical trials. *Am J Obstet Gynecol.* 2006; 194(1): 127-130.
4. Spencer K, Nicolaides KH. A first trimester trisomy 13/19 risk algorithm combining fetal nuchal translucency thickness, maternal serum free Beta-hCG and PAPP-A. *Prenat Diagn.* 2002; 22:877-879
5. Gil MM, Quezada MS, Revello R, Akolekar R, Nicolaides KH. Analysis of cell-free DNA in maternal blood in screening for fetal aneuploidies: updated meta-analysis. *Ultrasound Obstet Gynecol.* 2015 Mar;45(3):249-66.
6. Gil MM, Accurti V, Santacruz B, Plana MN, Nicolaides KH, Analysis of cell-free DNA in maternal blood in screening for aneuploidies: updated meta-analysis. *Ultrasound Obstet Gynecol.* 2017 Sep;50(3):302-314.

