

*There are Millions of Worries  
During Pregnancy  
Have one less with*

**UNICAD**



**U N I C A D**

**UNICAD NIPT**

**Unipath Non Invasive  
Chromosomal Aneuploidy  
Detection**

Disclaimer: Unipath does not report Fetal Sex

# How does the **UNICAD NIPT** prenatal screening test work?

During pregnancy, the placenta leaks fetal cell-free DNA which circulates in the maternal bloodstream. As a result, a maternal blood sample contains a mixture of fetal and maternal circulating DNA. The **UNICAD NIPT** prenatal screening directly measures the amount of the cell-free DNA and can detect small changes in the DNA ratio between the maternal and cell-free DNA to estimate the risk of a fetal chromosomal aneuploidy or a microdeletion being present. The **UNICAD NIPT** prenatal screening employs the latest advances in Next Generation Sequencing (NGS) to analyze the DNA.

## UNICAD NIPT USP

### Sensitive

Able to produce valid, Fast & Accurate results in samples with little as 3.5% Fetal Fraction

### Quality

Powered by Thermo fisher & Yourgene Health- leading International Service provide of NIPT

### Flexible

Customized analysis including all aneuploidies and selected microdeletions

### Safe

Non-invasive, with no risk of miscarriage

### Accurate

>99% detection of autosomal trisomy conditions & a Low re-draw rate of <1%

### Simple

Uses Just one Maternal Blood sample 10ml

## Recommendations:

### \*American College of Obstetrics & Gynecologist (ACOG)

- » ACOG recommends that informing all Pregnant Women that NIPS is the most sensitive screening option for traditionally screened Aneuploidies (i.e, patau, Edwards & Down syndromes)
- » NIPT can be performed at an earlier gestational age than conventional screening and there is no gestational age upper limit after 10 weeks of gestation. This means that Patients can get the most accurate screening information at an earlier gestational age, this enhances informed decision making

In accordance with PCPNDT ACT We do not reveal Gender



# The **UNICAD NIPT** prenatal screening for?

- » Autosomal aneuploidies of 23 pairs of chromosomes including Trisomy 21, 18, 13
- » Sex chromosome aneuploidies
- » Microdeletions

## UNICAD NIPT

### Autosomal Aneuploidies

- » Down's syndrome (Trisomy 21)
- » Edwards' syndrome (Trisomy 18)
- » Patau's syndrome (Trisomy 13)
- » Whole genome-wide aneuploidy detection of the whole fetal genome (all 23 pairs of chromosomes)

### Sex Chromosome Aneuploidies

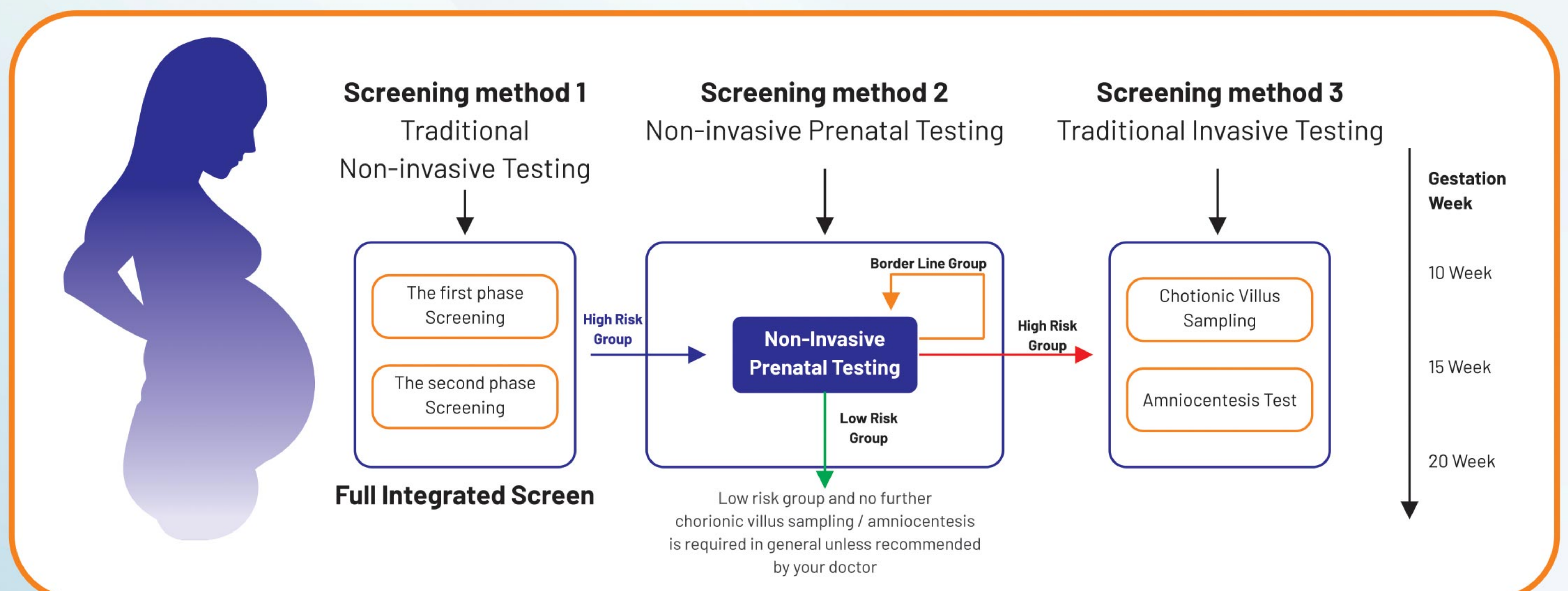
- » Monosomy X – Turner syndrome
- » XXX – Triple X syndrome
- » XXY – Klinefelter syndrome
- » XYY – Jacob's syndrome

## UNICAD NIPT ADVANCE

### Microdeletions

- » DiGeorge syndrome
- » 1p36 deletion syndrome
- » Prader-Willi syndrome
- » Angelman syndrome
- » Cri-du-Chat syndrome
- » Wolf-Hirschhorn syndrome

## UNICAD NIPT SCREENING PATHWAY





Care For  
Little Ones

## NIPT Assay Performance of 10,640 Samples

	Sensitivity	Specificity	PPV*	NPV*	FPR*	FNR*
<b>Trisomy 21 (173)</b>	>99.99%	99.97%	87.50%	>99.99%	0.028%	<0.01%
<b>Trisomy 18 (48)</b>	>99.99%	99.96%	91.67%	>99.99%	0.038%	<0.01%
<b>Trisomy 13 (24)</b>	>99.99%	>99.99%	>99.99%	>99.99%	<0.01%	<0.01%
<b>SCAs (107)</b>	>99.99%	99.91%	91.59%	>99.99%	0.085%	<0.01%

SCAs: Sex Chromosomal Aneuploidies

PPV : Positive Predictive Values\*

FNP : False Negative Rate\*

FPR : False Positive Rate\*

NPV : Negative Predictive Values\*

### Unipath Specialty Laboratory Limited

7 PASL House, Behind Shajanand College, Oppsite Kamdhenu Complex,  
Panjarapole, Ambawadi Ahmedabad - 380015

+91 95588 00100 | 079 49006800 / 803-820

[www.unipath.in](http://www.unipath.in)

[info@unipath.in](mailto:info@unipath.in)