Non-invasive prenatal test (NIPT)

## Introduction

Harley Street Fertility Clinic offers the NeoTest from Juno Genetics. This is a non-invasive prenatal test, performed using maternal blood. It is completely safe for the mother and her unborn child. The test can potentially examine all 24 chromosomes, to bring peace of mind to future parents.

NeoTest enables established pregnancies (from 10 weeks of gestation) to be assessed for certain chromosome abnormalities that can lead to late miscarriages or the birth of a child with serious congenital abnormalities.

NeoTest offers a high detection rate for the specific chromosome abnormalities tested and a low false-positive rate. Importantly, the non-invasive nature of the test means that it does not increase the risk of miscarriage – unlike traditional invasive prenatal tests. The test provides accurate answers when they matter most — simply, safely, sooner.

## Two test options:

**Neo5**: Detects abnormalities in chromosomes 21, 18, 13 and the most common anomalies in the sex chromosomes (X and Y). Neo5 tests the baby’s risk of Down syndrome, Edwards’ syndrome or Patau’s syndrome. It also reveals the possible existence of abnormalities in the X and Y sex chromosomes.

**Neo24**: Detects abnormalities in all 24 chromosomes. Hence, this option detects all chromosomal abnormalities, including Down’s Syndrome, Edwards syndrome, Patau syndrome, Turner syndrome, Klinefelter syndrome, XYY syndrome and Trisomy X syndrome.

## How is it performed?

Your baby’s cell free DNA can be detected circulating in your blood and so it requires a simple blood test, which is sent to the lab, analysed and the results returned within one week. The test uses DNA sequencing to count the number of copies of all chromosomes, and then uses a calculation to determine if there are too many or too few copies of chromosomes present in your foetus.

You will also be required to have an ultrasound scan prior to the blood test to check the viability of your pregnancy.

## Who can have it?

NIPT can be performed for most pregnancies including IVF, singleton and twins. It can be performed on women who have conceived via assisted reproductive technology (ART) including use of a donor egg.

Is the test conclusive? Although the tests are not 100% conclusive\*, they are highly accurate. In singleton pregnancies, the tests identify: more than 99% of foetuses with Trisomy 21; 98% of foetuses with Trisomy 18; 98% of foetuses with Trisomy 13; and 95% of fetuses with Turner Syndrome. X and Y analysis provides >99% accuracy for foetal sex. Accuracy for detecting other sex chromosome anomalies varies by condition.

The risk of requiring further testing such as CVS or Amniocentesis after an NIPT test is dramatically reduced.

## How does this test differ from other prenatal tests?

NIPT tests are able to deliver a much higher accuracy than other prenatal tests, such as Nuchal translucency or quadruple blood tests, giving you greater peace of mind. NHS Down Syndrome screening is typically offered via a nuchal translucency test that is less accurate than NIPT.

Further, the Neo24 test is more comprehensive than most other NIPTs available on the market.

More info: <https://www.neoprenataltest.com/>

Please also speak to our nursing or admin staff to book the test.