Advantages of the Harmony[®] technology

- > Exact determination of the proportion of fetal DNA by **SNP analysis**.
- > DANSR[™] technology specifically examines fragments of the chromosomes that are of interest. This enables a targeted, in-depth chromosome analysis - for clear results.
- > Even with a low fetal fraction, the FORTE[™] algorithm accurately distinguishes between high and low risk results.
- > Consideration of maternal risk factors leads to an **individual** risk calculation for each patient.





Medical information



Non invasive test for the prenatal detection of the most common chromosomal disorders

False positive rate of 0.04% for trisomy 21

DAKKS Deutsche Akkreditierungsstelle D-ML-21205-01-00

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Test variant and additional options

The Harmony $^{\mbox{\tiny \$}}$ Test is available with three additional options.

Trisomy 21, 18, 13

Additional options

- 🕀 Fetal sex determination
- X/Y analysis*
- Hicrodeletion 22q11.2 (DiGeorge syndrome)

Applications of the Harmony[®] Test

	Singleton pregnancy	Twin pregnancy	More than 2 fetuses	Vanishing Twin
Trisomy 21, 18, 13	\checkmark	\checkmark	Х	Х
Fetal sex determination	\checkmark	\checkmark	Х	Х
X/Y analysis*	\checkmark	×	Х	X
Microdeletion 22q11.2	2 🗸	Х	х	х

* Monosomy X, Klinefelter, Triple-X, XYY and XXYY syndrome.

The Harmony[®] Test compared to other prenatal testing methods



Performance appraisal

The Harmony[®] Test is a non-invasive prenatal screening test (NIPT) to detect fetal chromosomal disorders from maternal blood. The chromosomal disorders trisomy 21, 18, and 13, sex chromosomal disorders, and fetal sex can be determined with the test. The Harmony[®] Test can be performed after the 10th week of pregnancy and unlike invasive methods there is no risk of a procedure-related miscarriage.

Excellent detection rate

99.3% detection rate for trisomy 21 in published studies^[1]

The Harmony[®] Test is one of the clinically most intensly investigated NIPT methods^[1,2]. If one summarises the most important studies published, the Harmony® Test has a detection rate of 99.3% for trisomy 21 (trisomy 18: 97.4%, trisomy 13: 93.8%)^[1].

Low false positive rate

only 0.04 % for trisomy 21^[1]

In a large interdisciplinary analysis^[1] exact data on the false positive rate of the Harmony[®] Test could be determined in an unselected patient collective. The false positive rate for more than 23,155 pregnant women for trisomy 21 is 0.04% (trisomy 13 and trisomy 18: 0.02% each) and thus about 125 times lower than in the first trimester screening which had a false positive rate of about 5%.



Highly gualified team

of physicians and scientists

Cenata is comprised of a team of gualified physicians, including specialists in human genetics, laboratory medicine, and obstetrics and gynaecology. Our team is at your disposal for all questions related to prenatal diagnosis, NIPT, and the interpretation of the Harmony® Test results.

Fast reporting of results

on average 3 working days

Due to its unique technology, the Harmony[®] Test is characterized by a short reporting time. After the blood sample arrives at our lab, the result is usually available within 2-4 working days.

Limitations of the Harmony[®] Test

Vanishing twin, malformations, genetic mosaics, translocations

Most of the serious diseases of the unborn child is not triggered by chromosomal disorders^[9]. Therefore, a NIPT analysis cannot replace an ultrasound examination of the fetus. A limited detection rate of the Harmony[®] Test is also found in case of chromosomal mosaicism and translocations. In the presence of a vanishing twin, remnants of the placenta from the deceased fetus can lead to false test results. In this case, the Harmony[®] Test cannot be carried out.





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