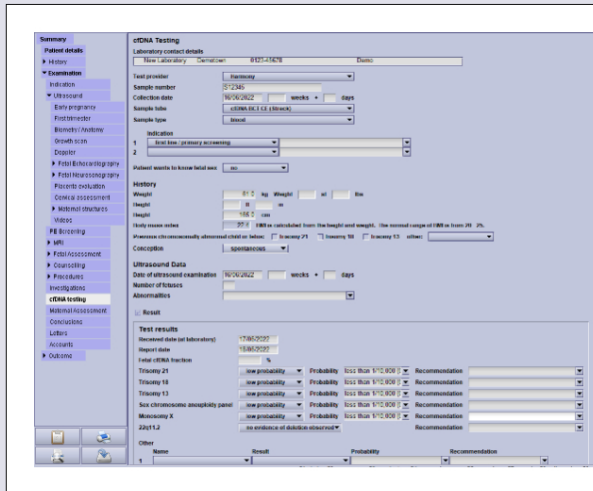This page provides you with a quick overview of main changes in this new version of astraia. For more information on the described features, please refer to the **Comprehensive list of changes** and the user manual.

astraia 29.0

cfDNA /NIPT

An enhanced cfDNA screen is now available.

NIPT becomes more and more prominent due to its high accuracy (both sensitivity and specificity), the possibility of early assessment (from week 9+0), the identification of affected pregnancies that might otherwise have been missed, and it reduces the need for invasive testing.

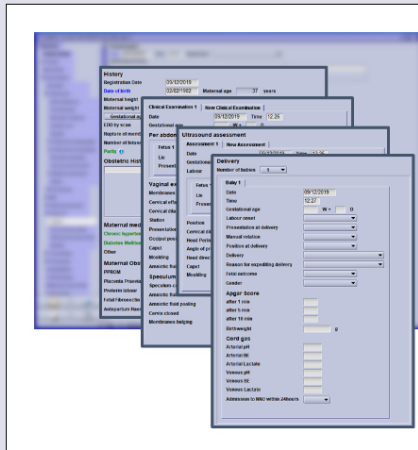cfDNA screen improvements allow for full documentation and a better workflow.

The screen is designed to support the provider Harmony, the NIPT from Roche, to report the findings. Other providers will be supported in future releases.

Some section (e.g. history) also apply to other providers.

New analyser for Biochemistry MoM calculation

Siemens analysers - platforms Advia XP, Advia CP and Atellica - have been implemented for the calculation of MoMs for free ß-hCG and PAPP-A.
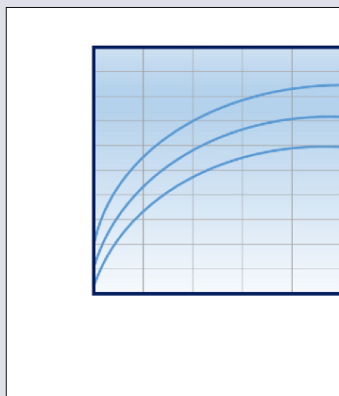
Intrapartum module for evaluation

A new Intrapartum module is available for evaluation. It includes four screens which integrate into the Obstetrics module and document a delivery (intrapartum) by means of ultrasound measurements, thereby objectively assessing the fetal head descent and cervical dilation.

Please note that these screens may only be used for evaluation purposes; they will be made available for productive use in the next version of astraia. If you are interested in evaluating this new module, please contact our Product department at products@astraia.com.

New charts and formulas

Pregnancy doppler charts

- **Mean uterine artery PI**: Rizzo et al., 2020.
- **Umbilical artery PI**: Rizzo et al., 2020.
- **Middle cerebral artery PI**: Rizzo et al., 2020.
- **Cerebral placental ratio CPR**: Rizzo et al., 2020.

New Database

- Open-source database PostgreSQL is supported.

Technical Changes

- The MS SQL driver has been updated to the Microsoft-supplied JDBC driver for SQL Server to ensure compatibility with Java 8 and to support SSL encryption.
- The JRE version in astraia is updated to JRE8u322.
- The log4J version in astraia has now been updated to 2.17.1.