The faster you know,
The more accurate you know.

i screen
NEWBORN GENOME SCREENING

Easy Collection
0.5 ml is needed

Free for Parents
If baby has a positive result

i-screen

23 Pairs of chromosomes

90+ diseases

Chromosomal Numerical Abnormalities

or

Chromosomal Strutural Abnormalities

Delition

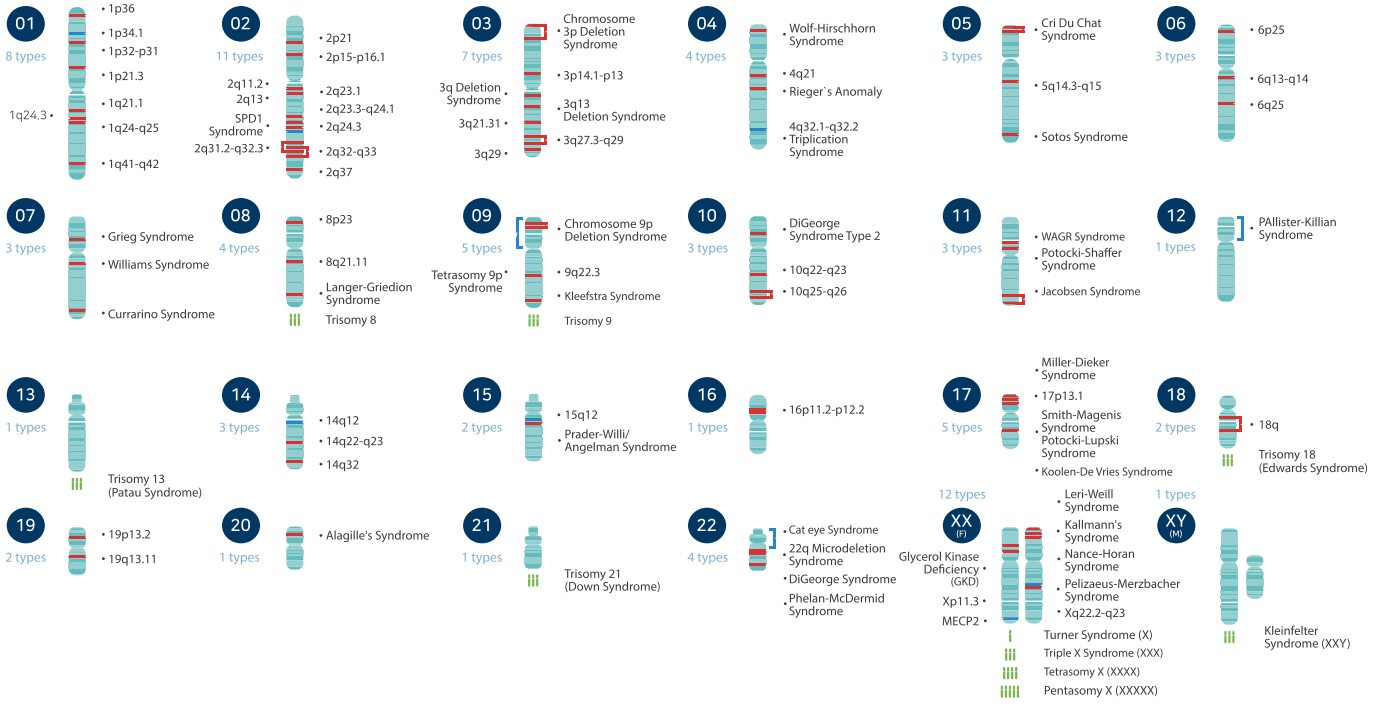
or

Duplication

check for chromosomal numerical & structural abnormalities in newborns
i-screen (newborn genome screening) test uses test uses NGS method to screen 23 pairs of chromosomes and provide test result on 90 diseases including autism, mental retardation, developmental disorder etc.

Regions of the chromosome covered

Screen for **90+a** diseases, **170,000** different regions of chromosome are analyzed



- Diseases were selected based on the list of developmental disorders related to chromosomal abnormalities discovered until recently.
- Selected mainly for diseases that have a high incidence and are helpful in relieving symptoms through early detection and treatment.

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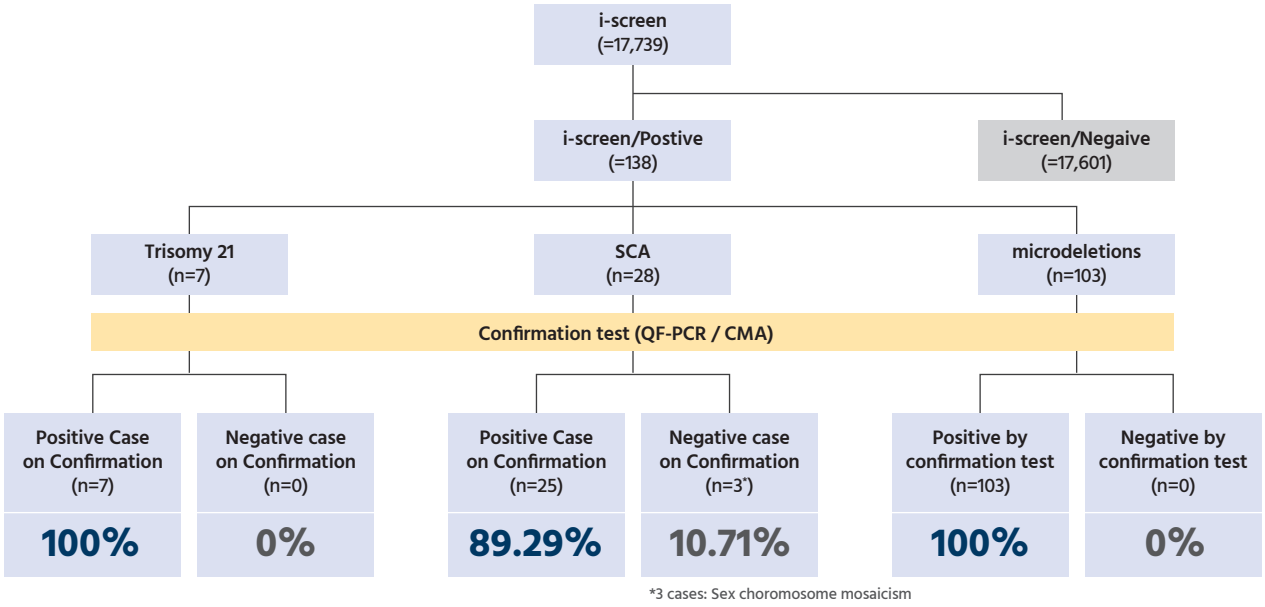
Test performance

i-screen can show a 97.83% match rate compared to the confirmation test (QF-PCR[1], CMA[2])



*3 cases: Sex choromosome mosaicism

- i-screen test is a screening test, not a confirmation test.
- This experiment was conducted by GC Genome itself, and there may be differences in the results.

*CMA (Chromosomal Microarray Analysis): It is a microarray test for the detection of clinically-significant microdeletions or duplications, with a high sensitivity for submicroscopic aberrations.
*QF-PCR (Quantitative fluorescence-polymerase chain reaction): It is a prenatal test as a secondary test for confirming conditions of chromosomal trisomy, submicroscopic deletions and duplications in the chromosome.

Service features

Test	i-screen, i-screen(Parents Follow up)	**Test Code**	ON035 ON126
Test Timing	Right after birth	**Sample Storage**	Room temperature (For EDTA WB, refrigerated is recommended.)
TAT	6 days	**Method**	NGS (Next Generation Sequencing)
Specimen	Blood paper (8 holes) or EDTA WB 0.5 ml * Parents Follow up test requires EDTA WB 3 ml		
Test description	This test is a comprehensive genetic test performed shortly after birth to evaluate a baby's DNA for potential genetic disorders. It uses NGS method to screen 23 pairs of chromosomes and provide test results on 90 diseases including autism, mental retardation, developmental disorder etc.		
Caution & Limitation	• Genetic variants(balanced trans location, inversion, point mutation, low-level mosaicism, etc.)other than chromosomal deletion/ duplication are not detected. • This test is for screening purpose, it is not a diagnostic test.		

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