



Postnatal screening test
to identify early-onset conditions

Babynext[®]
CARING FOR LIFE

Waiting for a child is a period characterized by excitement but also a lot of concern. Fortunately, many checkups during pregnancy, tests, instrumental investigations, and even genetic screenings in the prenatal phase allow to monitor and protect children's health.

Prenatal genetic screenings:

- Do not identify diseases so-called "de novo", which arise for the first time in the unborn child and are not transmitted by parents.
- Are not always extended to investigation of monogenic diseases
- Are not always preceded by parental survey (carrier screening test)

The healthcare system now applies nationwide expanded newborn screening.



- 49 metabolic diseases
- Biochemical investigation only A blood sample taken
- From the baby's heel at the time of birth nascita.



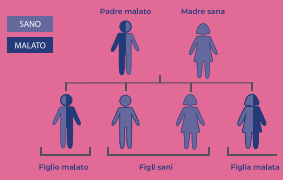




BABYNEXT® Caring for life: The added value of genetics

For several years, the scientific community has been showing interest in the use of sequencing techniques for newborn screening.



New tool for prevention and health protection of newborn babies.

	<p>NGS ANALYSIS</p>	<p>Technique</p>
	<p>MORE THAN 280</p>	<p>Detected conditions</p>
	<p>66</p>	<p>Dominant Transmission Conditions</p>
	<p>12</p>	<p>X-Linked conditions</p>
	<p>MORE THAN 10</p>	<p>Clinical areas of interest</p>

Conditions detected

by **Babynext**[®]
— CARING FOR LIFE

CLINICAL AREA	SOME OF THE CONDITIONS/DISEASES DETECTED BY THE TEST
Hematology	<ul style="list-style-type: none">> Favism> Beta Thalassemia> Sickle Cell Anemia
Endocrinology	<ul style="list-style-type: none">> Familial thyroid dyshormonogenesis> Congenital hypothyroidism type 1> Congenital adrenal hyperplasia from 3-beta-hydroxysteroid dehydrogenase deficiency
Gastroenterology	<ul style="list-style-type: none">> Congenital defect of bile acid synthesis, types 1, 2 and 3
Immunology	<ul style="list-style-type: none">> Severe combined immunodeficiency from ADA deficiency> Reticular dysgenesis> X-linked agammaglobulinemia
Metabolic disorders	<ul style="list-style-type: none">> Galactosemia> Phenylketonuria> Tyrosinemia
Nephrology	<ul style="list-style-type: none">> Alport Syndrome> Cystinuria A> Distal Renal Tubular Acidosis
Oncology	<ul style="list-style-type: none">> Retinoblastoma> Predisposition to rhabdoid tumor type 1 and 2> Nephroblastoma or Wilms' tumor
Otolaryngology	<ul style="list-style-type: none">> Pendred's syndrome> Deafness with vestibular aqueduct enlargement> Cystic Fibrosis
Syndromic	<ul style="list-style-type: none">> Neurofibromatosis type 1



Why Babynext®



Conditions analyzed by Babynext Caring for life are characterized by:

- **early onset**
- **high penetrance**
- **ability to take charge**

- ✓ Specifically, the survey in NGS conducted with Babynext Caring for life allows: to investigate preventable/treatable genetic diseases that cannot be identified by other methodology,
- ✓ To identify cases with mild variants and define ambiguous cases,
- ✓ To provide a fast and accurate diagnosis on infants not affected by parameters of prematurity, birth weight etc,
- ✓ Possible reduction of false positives and time (Tandem Mass Spectrometry - TMS on which SNE is based requires confirmatory testing).

Benefits of Babynext®



For the CHILD:

- ✓ Schedule clinical audits
- ✓ Define controlled diets or dietary supplements
- ✓ Apply targeted treatment protocols



For the FAMILY:

- ✓ Early and effective taking charge
- ✓ Reproductive risk information for future pregnancies or on children already born
- ✓ Useful information for collateral risk assessment



For the SOCIETY:

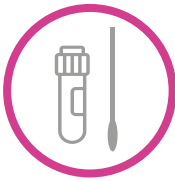
- ✓ Optimize health care costs

WHOM IS THE TEST ADRESSED TO



It is recommended to take the test as **soon as possible for timely diagnosis and possible management of the child.** It is recommended for all children, from birth to 3 years old who do not show obvious symptoms

How to perform the test



How the test is performed:

Simple buccal swab executable **even by yourself**

- Buccal swab
- Information form and informed consent
- Instructions for **collecting** storing and sending the sample
- Acceptance form Courier
- Pickup envelope



Reporting times:

45 working days.

**PRE- AND POST-TEST
GENETIC COUNSELING
INCLUDED**



Genoma

www.babynext.it
info@babynext.it

