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Global Prenatal & Maternal Diagnostic Market to 2021

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Abstracts

According to WHO, nearly 140 million babies are born every year, out of which 5 million die in the first month of life, mostly in developing countries. For example, in India, about 5% to 15% of sick newborns have a metabolic disorder. This emphasizes the need for newborn screening for preventing disability and death by early intervention, follow-up and counselling.

Globally, the use of maternal serum marker screening and ultrasound imaging for the detection of chromosome aneuploidies and other birth defects constitute a routine part of prenatal care in the first and/or second trimesters. Yet, both of these techniques have the disadvantages of high false positive rates, varying from 2% to 7%. If the results of these tests show that a fetus is at increased risk of aneuploidy, invasive approaches such as chorionic villus sampling (CVS) or amniocentesis are recommended for diagnosis.

Fetal Ultrasound Screening Market

Today, ultrasound is used on average five times per pregnancy before delivery. The fetal ultrasound screening market generated revenues of about $x million in 2014 with the potential to earn $x million in 2021, growing at a CAGR of x%. Fetal MRI prenatal screening is performed rarely, only when the ultrasound screening provides an ambiguous result and to detect suspected central nervous system (CNS) disorders in the fetus during the second trimester. The fetal MRI segment had generated estimated revenue of $x million in 2014 with a potential to earn $x million in 2021.

Maternal Serum Testing Market

The global maternal serum test market was worth $x million in 2014 and is forecast to grow and reach $x million by 2021. The market consists of test methods for:

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Pregnancy-associated plasma protein (PAPP-A)

Alpha-fetoprotein (AFP)

Human chorionic gonadotropin (hCG)

Estriol

Inhibin-A

Had it not been for the launch of noninvasive prenatal tests (NIPTs) in 2011, this market would have fared much better.

Noninvasive Prenatal Test Market

Noninvasive prenatal tests (NIPTs) are the future of prenatal screening and have shown signs of surpassing the traditional maternal serum test revenues by earning about $x million in 2014. With a CAGR of x%, this market is forecast to reach $x million in 2021.

Newborn Screening Market

Newborn screening is an accepted national health policy in about 52 countries. It is a well-entrenched routine of newborn care in the U.S., U.K., Japan, Australia and most western European countries for the last three decades. In the Asian continent, China, Philippines and Thailand have developed admirable newborn screening programs in a relatively short period of time. Mass spectrometry has become the standard technique for newborn screening. Using this technique, medical technologists are capable of screening as many as 30 metabolic disorders from a single sample of blood. The global market for newborn screening has been valued at $x million in 2014 and it will be worth about $x million by 2021.

Preimplantation Genetic Diagnosis Market

Preimplantation genetic diagnosis (PGD) has been in practice for more than twenty years in about 60 countries globally. PGD testing is performed to identify genetic defects in embryos. The tests are usually performed in cases of a known genetic defect, in late age pregnancy, or in patients with a history of repeated miscarriages. PCR, FISH, CGH, and SNP analysis are some of the most common techniques used, and

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PCR is the most widely used technology. The global market for PGD was worth about $x million in 2014 and this has been predicted to enlarge and reach $x million in 2021.

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