
INCIDENCE OF CONGENITAL MALFORMATIONS IN NEWBORNS IN THE INSTITUTE FOR NEONATOLOGY IN PERIOD 1996 – 2001

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ABSTRACT

Congenital malformations (CM) are defined as anatomical and structural changes of the tissue and organs or the systems of organs. They are caused by the endogenous factors on the genes and chromosomes, by the exogenous factors-teratogenes and by the unknown causes. The most analyses conclude that a definite etiology for 60 to 70 per cent of human malformations is unknown. Despite the most improvement of perinatal care 4 per cent of newborns have visible malformations at birth. According to the literature, more than 20 per cent of perinatal mortality is caused by congenital malformations.

Key words: newborns, congenital malformations

Objective

The aim of our study was to determine the incidence of congenital malformations of the babies admitted to Institute for Neonatology in the period from 01.01.1996 to 30.06. 2001.

Method

Malformations were diagnosed by clinical, x-ray, ultrasonographic, cytogenetic and by the others examinations. The malformations were classified by the actual «10 th Revision of International Classification of Diseases» and systematised regarding to systems of organs.

Results

We investigated 5685 babies which were admitted to Institute in this period and found that 15,5% babies had one or more congenital malformations.

**The incidence of congenital malformations
(01.01.1996 - 01.06.2001)**

Years	Babies with CM	Total	%
1996	157	1057	14,83
1997	137	1078	12,71
1998	178	928	19,18
1999	168	1052	15,92
2000	157	1022	15,55
2001	84	548	15,34

The most frequent malformations were found on the skeletal and muscular (5,44%), cardiovascular (3,71%) and urogenital systems (3,38%).

We concluded in our study that the incidence of congenital malformations for each year during this period was high keeping the similar tendency, but the more accurate analysis will be done.