P-251 - RESULTS OF THE NEONATAL SCREENING PROGRAM IN CUBA. 33 YEARS OF EXPERIENCE.


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INTRODUCTION: The Neonatal Screening Program in Cuba began in 1986 with the study of congenital hypothyroidism. In 2000 was included the early diagnosis of Phenylketonuria and in 2005 the detection of congenital adrenal hyperplasia, Galactosemia and Biotinidase Deficiency. These tests guarantee the screening of inborn errors of metabolism to more than 100,000 children each year.

OBJECTIVE: Evaluate the results of the Program and its impact on the National Health System.

METHODS: A retrospective descriptive study was conducted in the period 1986-2018 of the statistical reports of medical records, analyzed the program's effectiveness indicators and evaluated the performance of SUMA services, according to the results of the External Quality Control. Statistical methods were applied for the analysis of the results.

RESULTS: In 33 years, 11,115,382 newborn exams have been performed, of which 1077 children with different metabolic disorders have been diagnosed and treated in time. From these, 942 with congenital hypothyroidism and an incidence 1: 4532; 38 cases of Phenylketonuria for an incidence 1: 51064; 68 cases of Congenital adrenal hyperplasia, incidence 1: 24301; 18 children with Biotinidase Deficiency, incidence 1: 91375, and 11 with Galactosemia and an incidence 1: 146152. The follow-up of the indicators of effectiveness showed in 2018 that more than 95% of the samples were collected before the sixth day of birth, transferred to the laboratories before 72 hours and tested immediately. The coverage of the program reaches 99% of the children born, and it extends to 169 Specialized Centers of Integral Active Research (CEPAI), that participate in the program of external evaluation of the quality and are located with technological support, in the National Network of the National Health System.

CONCLUSIONS: Since the beginning of the program, life has been saved and guaranteed normal neurocognitive development for all children diagnosed; A high level of well-being has been guaranteed to the family and society as a whole. It has achieved the necessary technological sovereignty that allows strengthening and giving continuity to the national program with excellent results in the indicators of effectiveness. The external control program monitored the work of the laboratory network, giving credit to the results.