P-208 - STRATEGIES IMPLEMENTED IN PARAGUAY FOR THE NEONATAL DETECTION, DIAGNOSIS AND TREATMENT OF INDIVIDUALS WITH CYSTIC FIBROSIS

Ascurra M, Valenzuela A, Ortíz Paranza L


INTRODUCTION: Cystic fibrosis (CF) is an autosomal recessive pathology, capable of being detected neonatally, caused by mutations in the CF transmembrane conductance regulator gene (CFTR), the pathology is multisystemic and early treatment modify the expectation and quality of life of those affected. The incidence in Paraguay for 2017 was 1/5,112 newborns (NB). OBJECTIVE: Present the main strategies and the results achieved for the detection, diagnosis and treatment of individuals with CF, in the National Neonatal Screening Program.

METHODOLOGY: A review of the annual operating plan, reports, publications and documents issued from 2004 to 2018 was made. RESULTS: In these 15 years, 16 strategies were implemented that allowed the detection, diagnosis and treatment of individuals affected by CF. Among those that stand out the development of a pilot project for the screening of CF in NB, by means of immunoreactive trypsin (IRT) measurement; delivery of a basic basket of medicines, supplies and equipment for the treatment of individuals with CF detected by the program as well as those previously diagnosed; implementation of the sweat test; preparation of a multidisciplinary Clinical Guide; automation of the IRT analysis that allowed the universalization of the screening, and finally the identification of the mutations present in the affected individuals. In 2015, it was possible to reach 100% coverage of the NBs that attended to the services of the Ministry of Public Health and Social Welfare. From January 2004 to December 2018, 179 individuals received their treatment in the program, 144 of which were detected neonatally. CONCLUSION: In these 15 years the strategies implemented allowed us to universalize the neonatal detection, which leads to a better quality and life expectancy of the individuals affected by CF. At present, it would only be necessary to implement a Multidisciplinary Care Center for individuals with Cystic Fibrosis.