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**INTRODUCTION:** The Rafael Calvo Maternity Clinic located in Cartagena, attends the largest number of births in the city and the department. The Neonatal screening program was implemented on August 17, 2005, developing it within internal and external national and international controls. In Colombia the frequency of Congenital Hypothyroidism is between rates of 1/1886 newborns, 1/2500 and 1/3348. **OBJECTIVES:** Establish the number of newborns that were screened for Congenital Hypothyroidism between 2005 and 2018. Determine the number of positive cases and its prevalence. **METHODOLOGY:** Observational, Descriptive, Retrospective. **MATERIALS AND METHODS:** Umbilical cord blood samples collected from August 17, 2005 to December 31, 2018, were analyzed for TSH using a fluorometric enzyme immuno assay (FEIA). **RESULTS:** Number of newborns screened annually: 2005: 2224; 2006: 4866; 2007: 6536; 2008: 7694; 2009: 7986; 2010: 6866; 2011: 9257; 2012: 8260; 2013: 10333; 2014: 8760; 2015: 7249; 2016: 7247; 2017: 7866; 2018: 6249. These figures correspond to 100% of newborns born at the Institution. Currently, congenital hypothyroidism is a notifiable event in Colombia. A total of 101393 newborns were screened, being 2013 the year with the higher and 2006 the year with the lower number of newborns screened. POSITIVE CASES PER YEAR: 2005, 2006: 0 cases; 2007: 2/6536; 2008: 0 cases; 2009: 0 cases; 2010: 1/6866; 2011: 4 /9257; 2012: 12 /8260; 2013: 3/10333; 2014: 15/8760; 2015: 10/7249; 2016: 5/7247; 2017: 3/7866; 2018 2/7866. 57 Positive cases were confirmed in 13 years of work over a population of 101393 newborns with a general incidence of 1/1779. The year with the higher number of positive cases was 2014 with 15 cases. In 2005, 2006, 2008 and 2009 no case was detected. **CONCLUSIONS:** The neonatal screening program of the Maternity Rafael Calvo screened 101393 newborns of the institution for Congenital Hypothyroidism measuring TSH on umbilical cord blood, achieving 100% of coverage. During the period of time studied, 57 positive cases were found resulting in 1 case on 1779 live births and keeping the proportion of the national prevalence.