

## International Virtual Congress on PEDIATRICS

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**Estimating Neonatal necrotizing enterocolitis based on feeding practices****Miguel Baños-Peláez, Valeria Avila-Sosa, Luis Alberto Fernández-Carrocera, Gabriela González-Pérez, Sandra Carrera-Muñíos, María Antonieta Rivera-Rueda, Guadalupe Cordero-González, Silvia Romero, Alejandra Coronado-Zarco, Estibalitz Laresgoiti-Servitje and Claudine Irlés***Instituto Nacional de Perinatología, Mexico City*

The relationship between enteral nutrition and neonatal necrotizing enterocolitis (NEC) among premature neonates is still unclear. The present work was designed to assess the relationship between NEC and feeding strategies compared to control infants. (2) Methods: A retrospective case-control study of premature infants ( $< 0.05$ ). In the longitudinal analysis, generalized linear and mixed models were fit to evaluate NEC association with feeding strategies and showed that exclusive mother's own milk (MM) and fortified human milk (FHM) across time were significantly less likely associated with NEC ( $p < 0.001$ ) and that enteral fasting was positively related with NEC. In the cross-sectional analysis, a binary logistic regression model was fit and predicted 80.7% of NEC cases. MM was also found to correlate with a reduced risk for NEC (OR 0.148, 95% CI 0.044–0.05,  $p = 0.02$ ), and in particular, on day 14, several factors were related to a decreased odd for NEC, including birth weight, antenatal steroids, and the use of FHM ( $p < 0.001$ ). (4) Conclusions: MM and FHM were associated with less NEC compared to fasting on days 7 and 14. Feeding practices in Neonatal Intensive Care Units (NICUs) should promote exclusive MM across the two-week critical period as a potential guideline to improve NEC outcome.

**Biography**

I am Miguel Baños Peláez, I am 32 years old, I am pediatrician and neonatologist graduate of the National Institute of Perinatology /UNAM in Mexico City. Work as a clinical doctor in two public health institutions in Mexico city. I currently study a master's degree in health sciences at the National Polytechnic Institute. I recently published my first article on feeding practices and the risk of enterocolitis. I am passionate about research in newborns and I hope to achieve a change in the attention of this population in my country.

mianbapel@gmail.com