

26th European Pediatrics Congress

October 22-23, 2018 | Amsterdam, Netherlands

Epidemiological, clinical and evolutionary profile of hyaline membrane disease in full term new born disease in full term new born

Ben Salem Hatem

*NCIU Military Hospital of Tunis,
Tunisia*

Hyaline membrane disease (HMD) is a respiratory condition due to functional deficiency in pulmonary surfactant. This pathology is well known in premature neonates but is still unknown or even denied in full term neonates.

Descriptive retrospective study within the NCIU of the Tunisian Military Hospital over a period of 3 years from January 1st, 2014 to December 31st, 2016.

Disease frequency was 12.5% of the total respiratory distress of full term newborns admitted during the study period. The majority of newborns were "out born". Sex ratio was 1.6. Mean gestational age at birth was 38.12 ± 0.96 gestational weeks. The most frequent mode of delivery was caesarian section in 82% of cases. Mean birth weight was 3306 ± 520 g. Mean age of newborns at admission was 12.05 ± 14.25 hours. "Out borns" were aged 19.15 ± 14.43 hours. Mean age of "in borns" was 1.57 ± 1.09 . Respiratory distress was immediate for all newborns. Chest-x ray showed alveolar syndrome in 90% of cases. Association with intra-thoracic effusion was noted in 17.6%. All newborns had mechanical ventilation at an average age of 16.88 ± 14.46 hours. All newborns were treated with exogenous

surfactant at an average age of 21.85 ± 17.39 hours. Pulmonary arterial hypertension was found in 58% of cases. The trend was favorable in 88.2% of cases. The 4 deaths were attributed to a care-associated infection in one case and persistent pulmonary arterial hypertension in 3 cases.

HMD in full term newborn is a real entity. It seems essential to consider this diagnosis in a newborn with respiratory distress in order to avoid any delay in management, source of very serious complications. Elective caesarian section is the main risk factor. We recommend an obstetric-pediatric collaboration to ensure a better prognosis for these newborns.

Biography

Ben Salem has completed his PhD at the age of 27 years from Tunis university school of medicine. He works in the NCIU of the military hospital of Tunis since 2010

bensalemneonat@yahoo.fr

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