

Vitamin D role in osteopenia of prematurity...The concept story

Said El deib
NMC Health Care Group, UAE



Abstract

Osteopenia of prematurity is a preventable disease. Improved survival of premature newborns is associated with an increased incidence of OOP.

Osteopenia of prematurity is a metabolic bone disease of premature infants with birth weight < 1500 g and gestational age < 32 weeks. Sub-optimal bone matrix, and an increased risk of fractures characterized the disease. , multifactorial etiology and impact on early and late morbidity of the newborns. The prevention and treatment of bone disorders are important aspects of the care of preterm babies.

Objective: To diagnose the risk factors, to determine early diagnostic criteria and to create a prevention osteopenia in infants with very low and extremely low birth weight.

In conclusion: Risk factors for osteopenia are: the low gestational age and low levels of vitamin D at birth. Biochemical markers of osteopenia are: changes in levels of parathyroid hormone, phosphorus and vitamin D at eight weeks of age. Prevention includes: early supplementation of vitamin D in the risk neonates with individual dose adjustment. Upon biochemical evidence of osteopenia treatment should begin in the second week of life with supplementation of phosphorus, and vitamin D daily and appropriate physiotherapy.

Biography:

Dr. Said is a Pediatrician and Neonatologist whose experience in the field spans 15 years, backed by a higher education degree from royal college of pediatrics'and child health in UK,in addition to master degree from Ain Shams university in Egypt one of the oldest and top ranking universities in the MENA region. He is pioneering an open and contextual evaluation model based on constructive responses, which has led in the creation of new methods to improve pediatric healthcare, neonatology and pediatric nutrition. Dr. said has established this model following his years of experiences in medical practice, research and evaluation, and teaching and administration in hospitals and medical universities in the region, including Egypt, kuwait and the UAE.

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