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Uday Devaskar

Mattel Children's Hospital, California

Advances in human donor breast milk: it is not just for the premature anymore

Natural Mother's Breast Milk (MBM) is the Rolls Royce of all feeding options in all neonates. However, when biological MBM is not available, insufficient or contraindicated, Donor Breast Milk (DBM) becomes the second-best, distant option as compared to any formula. Current pasteurizers are large, expensive, require special electrical and water connections, need a large amount of water which is not recycled and an ongoing supply of disposable plastic bottles. They also require special training. Thus the use of these machines is limited to Western countries or large hospitals in big cities in developing countries like India. Therefore, a compact, automated, user-friendly Human Breast Milk Pasteurizer (HBMP) named Kimie for universal use capable of pasteurizing 0.5 or 3 liters of DBM was developed. Kimie does not require special water plumbing, recycles water, is inexpensive, does not require plastic bottles, special training or FDA approval. During the presentation, the genesis and various medical indications for the use of DBM using Kimie in preterm and full-term babies, including the present infant formula crisis in the USA, will be addressed.

Recent Publications

1. Joshi S, Kanade A, Devaskar, U; Point of Care Blood Ketone and Glucose Concentrations in Full Term Healthy Neonates with in First 48 Hours of Life – The POCK Study. Biomedical Journal of Scientific & Technical Research. 2021, vol 36, issue 4, 28659-28663
2. Purdy I, Paz A, Findlay R, Vangala S and Devaskar U. High incidence of hypothyroidism within a month in neonates with Down syndrome who are euthyroid at birth: Results of a prospective trial. J of Pediatr and Neonatology 3:1:1-4, 2021
3. Kohn L, Horowitz H, Butte M and Devaskar U. Prevention of cytomegalovirus (CMV) transmission via maternal breast milk to an infant with severe combined deficiency using Kimie: New compact breast milk pasteurizer. J Pediatr Neonatology 3 (2):1-4, 2021

Biography

Uday Devaskar, originally from India, is a tenured professor of pediatrics at UCLA School of Medicine in Los Angeles. He was the former chief of the neonatology division. He has varied research interests in the field of neonatal-perinatal medicine for which he had received funding from various agencies including the National Institute of Health. He was instrumental in the development of a new human milk pasteurizer named Kimie. At present his research is in the field of Donor Breast Milk.

UDevaskar@mednet.ucla.edu