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Infantile onset diabetes mellitus in developing countries - India

Poovazhagi Varadarajan

Abstract

Infantile onset diabetes mellitus (IODM) is an uncommon metabolic disorder in children. Infants with onset of diabetes mellitus (DM) at age less than one year are likely to be transient or permanent neonatal diabetes mellitus or rarely type 1 diabetes. Diabetes with onset below 6 months is a heterogeneous disease caused by single gene mutation. Literature on IODM is scanty in India. Nearly 83% of IODM present with diabetic keto acidosis (DKA) at the onset. Missed diagnosis was common in 67% of infants with diabetes. Potassium channel mutation with sulphonylurea responsiveness is the common type in the non-syndromic IODM and Wolcott Rallison syndrome is the common type in syndromic diabetes. Developmental delay and seizures were the associated co-morbid states. Genetic diagnosis has made a phenomenal change in the management of IODM. Switching from subcutaneous insulin to oral hypoglycemic drugs is a major clinical breakthrough in the management of certain types of monogenic diabetes. Mortality in neonatal diabetes is 32.5% during

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