Neonatal Monitoring System

Abstract:

Childbirth is generally time of joy for parents and families. As per the medical reports each year 4 million newborns die within 28 days of birth and more suffer from disability, disease, infection and injury. The enabling environment for safe childbirth depends on the care and attention required to newborns by health personnel and the availability of adequate health-care facilities, equipment, and medicines and emergency care when needed. Neonatal monitoring refers to the monitoring of vital physiological parameters of premature infants. Continuous health monitoring of the neonates provides crucial parameters for early detection of adverse events. Health monitoring for the neonates provides crucial parameters for urgent diagnoses and corresponding medical procedures, subsequently increasing the survival rates. In the present paper, we propose a prototype design of a neonatal monitoring system. The system is designed and integrated with different health measurement and display devices. The prototype design is very much useful for monitor the physiological parameters of infants. Keywords: Neonatology, Neonatal Intensive Care Unit, Health parameters