DEVICE FOR NEONATAL MONITORING

IPTel Tracking ID: ES-ECE-2016-102

Wearable temperature sensing device is designed for remote and real-time monitoring of infants for the first few weeks after their birth. It can accurately sense the onset of hypothermia.

Area of technology: Wearable sensors/Neonatal monitoring

Technology Readiness Level (TRL): 2

BACKGROUND

➢ Hypothermia is considered as one of the important factors for neonatal mortality and morbidity in rural resource constrained settings.
➢ Conventionally, adhesive medical tapes are used to monitor the body temperature of neonates in ICU. Removal of these tapes causes skin irritation, abrasion and damage.
➢ Also, research suggests increase in microbial growth under temperature probe.
➢ Continuous monitoring of temperature using conventional means possess risk of damage to internal organs.
➢ There is requirement of a non-invasive temperature monitoring method for neonates.

KEY FEATURES

 ✓ Low power wireless skin temperature sensor for real-time sensing
 ✓ It is safe, non-invasive and robust device
 ✓ Baby friendly design
 ✓ Capable of sensing temperature with 0.1% accuracy
 ✓ Easily sterilizable and reusable
 ✓ Packaged in water proof housing

COMMERCIALIZATION

IISc has filed PCT international application (PCT/IB2017/055265) and a complete application for grant of patent in India. We are looking for potential licensees to commercialize this invention.
CONTACT DETAILS

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