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Does infrared temperature reflect core body temperature? A comparative study on infrared temperature from different parts of the body with axillary temperature

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Objective: To determine the limit of agreement between non-contact infrared temperature (NCIT) from forehead, chest and abdomen with digital axillary temperature (DAT).

Design & Setting: Prospective study was conducted in the Neonatal unit of Christian Hospital Chhatarpur, Madhya Pradesh, India (A mission hospital under Emmanuel Hospital Association, New Delhi).

Methods: In this study NCIT from the forehead, chest and abdomen was compared with DAT by Bland Altman plot.

Results: A total of 211 sets of temperature were recorded from neonates admitted in the Division of Neonatology, Christian Hospital Chhatarpur, Madhya Pradesh, India. The DAT agrees well with NCIT chest [mean difference = 0.1346, 95% limit of agreement: (0.08455, 0.1846)] as compared to NCIT forehead and abdomen [Figure 1].

Recent Publications

1. Varghese Abraham, Elizabeth Johnson, Khristina Deep, Deepanjali Dip, Pratima Yadav and Mahima Singh (2018) Is phototherapy stressful? A study to compare the stress of neonates in single and double surface phototherapy. *Journal of Clinical Neonatology* 7:38-40.
2. Varghese Abraham (2015) Congenital malaria mimicking sepsis - a case report from malaria endemic area in Central India. *Acad J Pediatr Neonatol* 1(1).
3. Abraham M Ittyachen, Mohan B Jose and Varghese Abraham (2013) Autoimmune hemolytic anemia secondary to chicken pox. *Ann Trop Med Public Health*, 6:353-

Biography

Varghese Abraham has completed his Postgraduation in Pediatric Medicine from Christian Medical College Ludhiana in 2015. He is interested in Pediatric Neurology and Neonatology. After his post-graduation his main work was with the neonates and is the in charge of SNCU in Christian Hospital Chhatarpur, Madhya Pradesh, India. He has 5 international paper presentations and was the resource person in Neonatal Survival Training (A series of workshop funded by Emmanuel Hospital Association Canada). He has 2 case reports in international journal and one research brief in *Journal of Clinical Neonatology* which is awaiting publication. He has given prime importance in patient care, teaching and medical research. He was the principal investigator in 2 studies done in Christian Hospital Chhatarpur, India and always took initiative in uplifting the quality of care by frequent training of the pediatric and neonatal staff nurses.

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