

1,755 Views | 34 CrossRef citations to date | 2 Altmetric

Research Article

Effect of Kangaroo mother care in reducing pain due to heel prick among preterm neonates: a crossover trial

Ambika Gnanam Chidambaram, S. Manjula, B. Adhisivam  & B. Vishnu Bhat


Pages 488-490 | Received 25 May 2013, Accepted 20 Jun 2013, Accepted author version posted online: 25 Jun 2013,

Published online: 18 Jul 2013

 Cite this article  <https://doi.org/10.3109/14767058.2013.818974>



Sample our
Medicine, Dentistry, Nursing
& Allied Health Journals
>> [Sign in here](#) to start your access
to the latest two volumes for 14 days



 Full Article  Figures & data  References  Citations  Metrics

 Reprints & Permissions

[Read this article](#)

 Share

Abstract

Background: Preterm neonates undergo several painful procedures in NICU including heel prick for blood sugar monitoring. Nonpharmacological interventions have been tried to decrease this procedural pain. There are only few studies on Kangaroo mother care (KMC) in reducing pain among preterm neonates.

Method: This crossover trial was conducted at a tertiary care teaching hospital in south India. Premature Infant Pain Profile (PIPP) related to heel prick was assessed in 50 preterm neonates undergoing KMC and compared with 50 preterm babies without KMC.

Results: PIPP scores at 15 minutes and 30 minutes after heel prick were significantly less in KMC group compared to control group. Mean PIPP difference between baseline and 30 minutes after heel prick was also significantly low in KMC group compared to control group.

Conclusion: KMC is effective in reducing pain due to heel prick among preterm babies.

Kangaroo mother care

pain

premature infant pain profile

preterm

Related Research Data

[Premature Infant Pain Profile: Development and Initial Validation](#)

Source: Clinical Journal of Pain

[Kangaroo mother care diminishes pain from heel lance in very preterm neonates: A crossover trial](#)

Source: BMC Pediatrics

[New Ballard Score, expanded to include extremely premature infants](#)

Source: The Journal of Pediatrics

[Kangaroo Mother Care in Reducing Pain in Preterm Neonates on Heel Prick](#)

Source: The Indian Journal of Pediatrics

[The impact of pain in the immature brain](#)

Source: The Journal of Maternal-Fetal & Neonatal Medicine

[The effect of mother-infant skin-to-skin contact on plasma cortisol and \$\beta\$ -endorphin concentrations in preterm newborns](#)

Source: Infant Behavior and Development

[Pain behaviours in Extremely Low Gestational Age infants](#)

Related research

People also read

Recommended articles

Cited by
34

To study the effect of Kangaroo Mother Care on pain response in preterm neonates and to determine the behavioral and physiological responses to painful stimuli ... [>](#)

Information for

[Authors](#)

[R&D professionals](#)

[Editors](#)

[Librarians](#)

[Societies](#)

Opportunities

[Reprints and e-prints](#)

[Advertising solutions](#)

[Accelerated publication](#)

[Corporate access solutions](#)

Open access

[Overview](#)

[Open journals](#)

[Open Select](#)

[Dove Medical Press](#)

[F1000Research](#)

Help and information

[Help and contact](#)

[Newsroom](#)

[All journals](#)

[Books](#)

Keep up to date

Register to receive personalised research and resources by email



Sign me up



Copyright © 2026 Informa UK Limited [Privacy policy](#)

[Cookies](#) [Terms & conditions](#) [Accessibility](#)

Registered in England & Wales No. 01072954
5 Howick Place | London | SW1P 1WG



Taylor & Francis
by **informa**•••