



Clinical evidence that supports The Zaky ZAK®, The Zaky HUG®



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Publications - The Zaky ZAK®

<https://thezaky.com/pages/the-science-behind-the-zaky-zak>



Neonatal Skin-to-Skin Contact [With The Zaky ZAK®]: Implications for Learning and Autonomic Nervous System Function in Infants With Congenital Heart Disease.

Tondi M. Harrison, PhD, RN, FAAN, Chao-Ying Chen, PhD, MS, PT, Phyllis Stein, PhD, Roger Brown, PhD, and Jill C. Heathcock, MPT, PhD

Conclusions: Findings suggest improvements in cognitive and autonomic development in 3-month-old infants with CCHD who received neonatal SSC. Learning and autonomic function results in infants with CCHD who had not received SSC suggest reduced capacity to muster

the physiologic resources to carry out this cognitive task. Findings provide preliminary evidence in support of implementation of SSC with infants with CCHD and support additional research.

Every mom/baby dyad used The Zaky ZAK (aka Kangaroo Zak) for Skin-to-Skin contact sessions.

Biological Research for Nursing 1-11 ^a The Author(s) 2019 DOI: 10.1177/1099800419827599

journals.sagepub.com/home/brn



Parent-Training with Kangaroo Care [with The Zaky ZAK®] Impacts Infant Neurophysiological Development & Mother-Infant Neuroendocrine Activity

Jillian S. Hardin, Nancy Aaron Jones, Krystal D. Mize, Melannie Platt

Infants were full-term (> 37 weeks GA). Mothers assigned to the Kangaroo Care

Group were given a Nurtured by Design's The Zaky ZAK® aka Kangaroo Zak®

Infant Behavior and Development, Volume 58, February 2020,

101416; <https://doi.org/10.1016/j.infbeh.2019.101416>



Publication: Kangaroo Care Implementation [with The Zaky ZAK®] - Quality Improvement Project. Mary Coughlin, RN, MS, NNP,

Every mother was provided a The Zaky ZAK (aka Kangaroo Zak) in this Quality Improvement Project. <https://doi.org/10.1053/j.nainr.2015.09.010>

Newborn and Infant Nursing Reviews Volume 15, Issue 4, December 2015, Pages 169-173



POSTER: Improving The Frequency And Duration Of Skin To Skin Holding [with The Zaky ZAK] To Promote Parental Confidence In NICU. by Elizabeth Jeanson PT DPT; Sheri Fischer, MSN RN CBC; Andrea Bunn DNP RN; David Munson, MD; Jessica Schnyders BSN RN; Nate Harris BSN RN

Sanford Improvement Academy selected The Zaky ZAK® as part of their Kangaroo Care implementation. The goal was to improve confidence, duration, and frequency by 20%. Here are the results: • Parental confidence increased by 62% on the PPCI, • Duration of STS holding increased by 62%, • Frequency of STS holding increased by 26%



nurtured by design.

Yamile Jackson, Ph.D., PE, PMP (Nurtured by Design's CEO) co-author.

Skin-to-skin and kangaroo care – safety, risks, kangaroo care devices.

<https://thezaky.com/pages/the-science-co-authored-by-yamile>
<https://orcid.org/0000-0003-2876-3424>

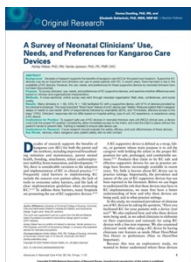


Clinician Opinions and Approaches to Manage Risk Related to Safe Sleep During Skin-to-Skin Care. Ashley Weber, Mason Elder, Kristin C. Voos, Joshua W. Lambert, Heather C. Kaplan, and Yamile C. Jackson.

<https://pubmed.ncbi.nlm.nih.gov/32726581/>

J Obstet Gynecol Neonatal Nurs. 2020 Sep;49(5):464-474. doi: 10.1016/j.jogn.2020.07.001.

Epub 2020 Jul 26. PMID: 32726581; PMCID: PMC7492480.



A Survey of Neonatal Clinicians' Use, Needs, and Preferences for Kangaroo Care Devices. Ashley Weber, PhD, RN; Yamile Jackson, PhD, PE, PMP

<https://pubmed.ncbi.nlm.nih.gov/32858546/>

Adv Neonatal Care. 2021 Jun 1;21(3):232-241.

doi: 10.1097/ANC.0000000000000790. PMID: 32858546; PMCID: PMC7907250.



Application of a Risk Management Framework to Parent Sleep During Skin-to-Skin Care in the NICU. Ashley M. Weber, Yamile C. Jackson, Mason R. Elder, Sarah L. Remer, Nehal A. Parikh, Jennifer J. Hofherr, Kristin C. Voos, and Heather C. Kaplan

JOGNN, 2022. <https://doi.org/10.1016/j.jogn.2022.02.004>



The culture of research communication in neonatal intensive care units: key stakeholder perspectives (Editorial). Degl, J., Discenza, D., Jackson, Y., Sorrels, K., International Neonatal Consortium
 J Perinatol 41, 2702–2703 (2021)
 Journal of Perinatology DOI: 10.1038/s41372-021-01221-4



The culture of research communication in neonatal intensive care units: key stakeholder perspectives. Jennifer Degl, Ronald Ariagno, Judy Aschner, Sandra Beauman, Wakako Eklun, Elissa Faro, Hiroko Iwami, Yamile Jackson, Carole Kenner, Ivone Kim, Agnes Klein, Mary Short, Keira Sorrells.
 J Perinatol 41, 2826–2833 (2021) DOI: 10.1038/s41372-021-01220-5

Publications - The Zaky HUG®

<https://thezaky.com/pages/the-science-behind-the-zaky-hug>



Neuroprotective Core Measure 2: Partnering with Families - Effects of a Weighted Maternally Scented Parental Simulation Device [The Zaky HUG®] on Premature Infants in Neonatal Intensive Care. Randomized Control Trial: by Kendra Russell, PhD, RN, Barbara Weaver, RN, Robert L. Vogel, Ph.D.

Conclusion: Neuroprotective supportive care using a weighted maternally scented parental simulation device [The Zaky HUG] resulted in increased

physiologic stability of premature and early term infants through the promotion of self-regulation seen by reduction of stressful behaviors, and decreased apnea, and bradycardia.

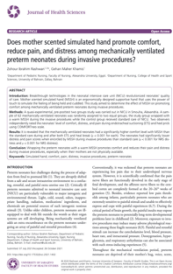
Newborn and Infant Nursing Reviews: Neuroprotection of the Neonate (NICU) Volume 15, Issue 3, September 2015, Pages 97-103



Effect of Facilitated Tucking Created with Simulated Hands [The Zaky HUG] on Physiological Pain Indicators during Venipuncture in Premature Infants. Nayer Salmani, Zohre Karjoo, Khadige Dehghan, Alireza Sadeghnia

Conclusion: According to the results of the current research, using the simulating glove [The Zaky HUG] to reduce pain during invasive and painful procedures is an effective and easy method for preterm newborns. Therefore, it is recommended that such simulation devices be applied in NICU for pain management, especially when parents of infants refuse to be present during painful procedures."

Iranian Journal of neonatology, 2017, 8(4), 7-12 | added to CENTRAL: 31 October 2018 | 2018 Issue 10



Does mother scented simulated hand (MSSH) [The Zaky HUG®] promote comfort, reduce pain, and distress among mechanically ventilated preterm neonates during invasive procedures? Zohour Ibrahim Rashwan^{1,2*}, Gehan Maher Khamis

Conclusion: Wrapping the preterm neonates with a warm MSSH promotes comfort and reduces their pain and distress during invasive procedures, especially when their mothers are not physically available.

Journal of Health Sciences 2021;11(3):160-167,
DOI: <https://doi.org/10.17532/jhsci.2021.1402>



Effect of facilitated tucking with the nurse and a simulated hand [The Zaky HUG®] on physiological pain index during vein puncture on premature infants. Salmani, N., Karjoo, Z., Dehghani, K., Sadeghnia, A.

Conclusion: The results of the study showed that the use of nursing hands and simulated hands to put a premature infant in a facilitated tucking is effective equally in controlling the physiological indices.

(2021) Journal of Health Sciences, Journal of Babol University of Medical Sciences, Volume 20, Issue 9, 2018, Pages 14-19.

The Zaky HUG advertisement includes the following elements:

- Logos:** The Zaky ZAK logo with the tagline "Engineering skin-to-skin and kangaroo care™" and the "nurtured by design." logo with the website "www.thezaky.com".
- Featured On:** A row of logos for various media outlets including ECBS, ABC, CBS, FOX, and others.
- Usage Scenarios:** A grid of photos showing mothers and babies using the HUG in various situations: antepartum, laboring, delivery & postpartum, c-section, couplet care, pumping, every hospital unit, fathers, family, home, fall & injury prevention, safe, strong, quiet, adjustable zippers, perfect & reliable fit every time, hold from 1 to 15 lbs., scent them, every patient, every position, and effective nonpharmacologic intervention for NAS & NOWS.
- Evidence:** A QR code labeled "evidence" for more information.
- Bottom Right:** The Zaky HUG logo and tagline: "Engineering sleep, developmental care, & neuroprotection for babies in hospital™".