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Reduce Infections

Decrease Dislodgements

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The image shows a close-up of the SecurAcath device, a yellow and blue catheter holder, being inserted into a vein. The device has 'LIFT' and 'HOLD' labels and the SecurAcath logo. The background is a stylized orange and white graphic.



The purpose of the study was to investigate the effect of upper limb massage on relieving pain among infants undergoing venipuncture in Hong Kong” Chik et al (2016).

Abstract:

The purpose of the study was to investigate the effect of upper limb massage on relieving pain among infants undergoing venipuncture in Hong Kong. This study was a crossover, double-blind, randomized controlled trial. Eighty infants at the neonatal intensive care unit were randomly assigned to 2 groups in different order to receive interventions. The massage first group (N = 40) received 2-minute massage before venipuncture on the first occasion

then received usual care (control) on the second occasion, and vice versa in the massage second group (N = 40). The infants' behavior and physiological responses were recorded on two occasions: (1) right after the intervention and (2) during the first 30 seconds of venipuncture procedure.

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The mean pain scores (Premature Infant Pain Profile) were significantly lower in infants who received massage (massage first: 6.0 ; massage second: 7.30) versus control (massage first: 12.0 ; massage second: 12.7). The crude and adjusted generalized estimating equations model showed that the infants had significantly lower pain score when receiving massage as compared to receiving the control treatment, and there were no significant time and carryover effects: -6.03 (95% confidence interval: -7.67 to -4.38), $p < .001$ and -5.96 (95% confidence interval: -7.56 to -4.36), $p < .001$, respectively. Upper limb massage may be effective in decreasing infants' venipuncture pain perception.

Reference:

Chik, Y.M., Ip, W.Y. and Choi, K.C. (2016) The Effect of Upper Limb Massage on Infants' Venipuncture Pain. *Pain Management Nursing*. December 10th. .

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