

# Efektivitas pelembap gliserin 10 dalam vaselin album untuk pencegahan sekunder terhadap dermatitis kontak di tangan pada tenaga bongkar muat di Pelabuhan Sunda Kelapa = Effectiveness of glycerin 10 in vaseline album for secondary prevention of hand contact dermatitis among loading dock workers at Port Sunda Kelapa

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## Abstrak

### <b>ABSTRAK</b>

Latar Belakang. Dermatitis pada tangan akibat kerja DTAK bersifat kronis, memiliki prognosis buruk, dan berdampak signifikan terhadap aspek psikososial dan pekerjaan. Prevalensi dermatitis kontak pada tenaga kerja bongkar muat TKBM Pelabuhan Sunda Kelapa Jakarta adalah sebesar 24,3 , dengan lesi di tangan 47,1 . Penggunaan alat pelindung diri APD masih belum cukup untuk mengatasi masalah ini, sehingga dibutuhkan intervensi lain. Penggunaan pelembap untuk memperbaiki sawar kulit dipertimbangkan efektif untuk mencegah keparahan DTAK. Metode. Penelitian ini adalah kuasi eksperimental satu kelompok. Intervensi dilakukan dengan menggunakan gliserin 10 dalam vaselin album sekali sehari setelah bekerja selama 14 hari. Hasil. Rerata nilai transepidermal water loss TEWL setelah intervensi 11,4 3,8 g/m<sup>2</sup>/jam lebih rendah dibandingkan rerata nilai TEWL awal 14,2 4 g/m<sup>2</sup>/jam , dengan perbedaan rerata nilai TEWL sebesar 2,8 2,9 g/m<sup>2</sup>/jam p= 0,000 95 CI 1,5-4,1 . Median nilai hand eczema severity index HECSI setelah intervensi 9,5 3-34 lebih rendah dibandingkan median skor HECSI awal 29,5 6-80 , dengan perbedaan rerata skor HECSI sebesar 19,5 -2-46 p= 0,000 . Korelasi antara perubahan nilai TEWL dan perubahan skor HECSI tidak bermakna p= 0,476 dengan kekuatan korelasi sangat lemah r= 0,160 . Variabel exposure rating tahunan debu semen berhubungan dengan perubahan skor HECSI p= 0,002 . Setelah intervensi seluruh lesi di jari-jari, telapak tangan, punggung tangan dan pergelangan tangan mengalami perbaikan yang bermakna.

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### <i><b>ABSTRACT</b></i>

Background. Occupational hand dermatitis OHD is chronic, has a poor prognosis, and significantly affects psychosocial and occupational aspects. The prevalence of contact dermatitis of loading dockworkers at Port Sunda Kelapa Jakarta was 24,3 and 47,1 lesion was on the hands. The use of personal protective equipment PPE is deemed inadequate to solve this problem, thus requiring other intervention. Using moisturizer for improvement of skin barrier is considered to be effective for preventing severity of occupational hand dermatitis. Method. The study design was quasi experimental one group pre and post test design. The 14 days intervention was performed on the loading dockworkers by instructing them to apply 10 glycerin in vaseline album on their hands once daily after working. Result. The mean value of transepidermal water loss TEWL after intervention 11.4 3.8 g m<sup>2</sup> hour was lower than the mean value of TEWL before the intervention 14.2 4 g m<sup>2</sup> hour . The TEWL mean difference was 2.8 2.9 g m<sup>2</sup> hour p 0.000 95 CI 1.53 4.1 . The median value of hand eczema severity index HECSI after intervention 9.5 3 34 was lower than the median value of HECSI before the intervention 29,50 6 80 . The HECSI mean difference was 19.5 2 46 p 0,000 . The correlation between TEWL changes and HECSI changes was not significant p 0.476 and the correlation strength was very weak r 0.160 . Annual exposure rating of cement dust associated with the

HECSI changes  $p < 0,002$  . After intervention, all lesions on the fingers, palms, back of hand and wrist were significantly improved  $p < 0,05$  , except for the finger tips. Additional analysis showed that the commonly found morphology of the lesion was infiltrate papule, scaling and erythema. After intervention, the severity score of the morphology lesions was also significantly decreased  $p < 0,05$  .Conclusion. Once daily application of 10 glycerin in vaseline album for 14 days could improved skin barrier function and the severity of OHD, thus can be advised for loading dockworkers with high annual exposure rating of cement dust.