EFFECTIVITY OF VIRGIN COCONUT OIL ON TRANSEPIDERMAL WATER LOSS IN CHILDREN WITH ATOPIC DERMATITIS

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ABSTRACT

**Background:** Atopic Dermatitis (AD) recurrence chronic skin disease. Dry skin occur decreasing of ability of water and increasing Transepidermal Water Loss (TEWL). Moisturizer is topical material with the function to prevent or cure xerosis skin. Moisturizer increased hidration of corneum layer with increasing per cutan water absorption of and decreased TEWL. This study aims to determine the effectivity of Virgin Coconut Oil (VCO) on TEWL in children with AD.

**Subjects:** Sample were 17 childrens with AD who given VCO on the right arm and vaseline album on the left arm as a control. Examination using TM300 to assess TEWL and assess the Scoring of Atopic Dermatitis (SCORAD) index before and after treatment.

**Method:** The study was conducted at the Dermatovenereology Departement dr. Wahidin Sudirohusodo Hospital and hospital networks in Makassar by using the method of clinical trial.

**Results:** The results showed that administration of VCO for 7 and 14 days can decrease the value of TEWL and SCORAD index, as well as after administration of vaseline album.

**Conclusion:** VCO and vaseline album can decreased TEWL value in AD children and statistically no differential effect in both. Decreased SCORAD index after given moisturizer in AD children.

**Keywords:** VCO, TEWL, AD, SCORAD.