

KEY WORD : SEBUM EXCRETION RATE/ACNE

JITTIMA DHITAVAT : SEBUM EXCRETION RATE IN ACNE AND ACNE-FREE PERSONS.

THESIS ADVISOR : ASSO. PROF.WANNASRI SINDHUPHAK, M.D. 83 pp. ISBN

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The sebum excretion rate and the skin surface lipid composition were studied in 98 Thai students, ages of 14-18 years. The Sebu-test strip technique was used to collect the lipid sample from the forehead. Quantitative thin-layer chromatography was performed for determining the sebum excretion rate and lipid composition. The average sebum excretion rate is $.7720 \pm .0657$ ug/cm²/min. Sebum excretion rate in acne persons is greater than in acne-free (P < .001) and varies to the severity (P < .0001). Male has greater sebum excretion rate than female (P < .05). Acne in male is associated with the increasing of skin surface triglycerides (P < .05). But in female, there is no significant relationship between acne and skin surface lipid composition.