

Thesis Title Clinical Isolation and Susceptibility of
Propionibacterium acnes Against Topical
Clindamycin.

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ABSTRACT

Clindamycin is a popular topical antibiotic in the treatment of acne vulgaris and effective in the treatment of anaerobic bacteria infections as well as in gram positive aerobic bacteria infections. About the pathogenesis of acne vulgaris is generally involved *Propionibacterium acnes*, gram positive anaerobic bacteria resided in sebaceous follicle of sebum rich area on skin. *P. acnes* secreted enzyme lipase which generated sebum lipids to free fatty acid and then induced to inflammation of lesion. Clindamycin is effective by reducing *P. acnes* in sebaceous follicle and decreasing skin free fatty acid.

Since clindamycin is well known drug in acne therapy and there are many studies about *P. acnes* but none in Thai people. The objectives of this study is to find the susceptibility of clindamycin to *P. acnes* in Thai and to develop topical clindamycin