

CLINICAL STUDY
THE EFFICACY OF JF (SULFUR 10%) SOAP
ON ACNE VULGARIS

Product Name	JF Sulfur Soap-10%
Study Title	The efficacy of "JF Sulfur Soap-10%" in reducing acne lesions in mild acne vulgaris
Study Centers & Time	Dermatology Department - Faculty of Medicine, Gadjah Mada University, DR. Sardjito General Hospital – Jl. Kesehatan 1 Yogyakarta, Indonesia, during February - April 2006
Study Objectives	This controlled clinical study was conducted to investigate the efficacy of JF Sulfur Soap – 10% in reducing acne lesions of mild Acne Vulgaris compare to its vehicle
Procedures and methods	<ul style="list-style-type: none"> • A twelve weeks, double blind, vehicle controlled study • Subjects qualified for participation in this study by meeting the following eligibility criteria : age 15 to 25 years, Indonesian descent, have mild acne vulgaris with 10-20 inflammatory lesions (papules and pustules), and 20-100 non-inflammatory lesions (open and closed comedones) on face, and agreed to refrain from using any cosmetics or topical drugs on the tested area • Prior to the start of the study, the 61 subjects were randomized divided into two treatments, group XY received JF Sulfur Soap 10% with 10% sulfur and group XX received Vehicle Bar Soap. 30 subjects received JF Sulfur Soap 10% treatment, while 31 subjects received Vehicle soap treatment • Subjects under the supervision of the study personnel washed their face once daily for the first 1 week then increased to twice daily afterwards for the following week 2 until week 12. The time between applications was at least 6 hours • On week 0, 2, 4, 6, and 12 the subjects visited the test center, and the following procedures were be performed : acne lesion counting for inflammatory and non-inflammatory lesions, photo imaging, skin hydration measurements and self-assessment questionnaire • Student t-test at baseline showed that the two treatment groups were balanced for acne lesions
Number of participants	61 people, 58 people completed the study
Result and evaluation	<ul style="list-style-type: none"> • The subjects treated with JF Sulfur Soap 10% showed statistically significant decrease of non-inflammatory acne lesions in week 2, 4, 6, 12 compare to baseline, and significant decrease of inflammatory lesions in week 4 and 12 • The reduction of inflammatory lesions in week 12 statistically significant compare to XX or Vehicle soap treated subjects • The overall acne lesions remained 67.99% in week 6, and 68.53% in week 12 which is statistically significant compare to the Vehicle treated soap • Self-subject assessment in group JF Sulfur 10% Soap treated also shows significant improvement of the acne lesions compare to baseline, also better changes of oiliness • Compare to Vehicle soap treated group, statistically the differences were significant in week 12 for the improvements of closed comedones and in week 2 for the improvements of papules • There were no adverse effect found in this study, and surprisingly there were significant increase in skin hydration state in week 6 on both groups, which is emphasized by the subjects with the significant improvements on skin hydration in week 6
Conclusion	It could be concluded from the study that the twice daily use of JF Sulfur Soap 10% with active ingredient 10% sulfur for a 12 consecutive weeks in 28 Indonesian volunteers of both sex aged 15 to 25 years with mild acne vulgaris, led to the improvement of acne lesions as early as within the first 2 weeks, based on visual expert assessment and subject assessment compare to Vehicle Bar Soap. No side effects such as dryness and-itch were found during the study

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