

## A Comparative Study of the Effects of *Nigella sativa* Oil Gel and Aloe Vera Gel on Wound Healing in Diabetic Rats

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<b>Abstract</b>	<p>Clinicians and wound care nurses in Indonesia usually use <i>Nigella sativa</i> oil (NSO) gel and aloe vera (AV) gel to treat diabetic ulcers. However, there are no studies directly comparing the effects of NSO and AV gels on wound healing, so it is unknown which of these 2 plants is better at promoting wound healing in diabetic ulcers. If the comparative efficacy between these 2 gels was known, it would be important evidence favoring the clinical use of one or the other product in Indonesia. The aim of this study was to investigate and compare the effectiveness of NSO and AV gels on wound healing in a rat model of diabetic ulcers. This experimental study involved 3 groups: NSO gel, AV gel, and controls. Our study showed that from day 5 onward, necrotic tissue and inflammation decreased in the AV gel group compared with the other groups. The wound areas on days 6 (<math>P = .020</math>) and 7 (<math>P = .021</math>) were significantly smaller in the AV gel group than in the NSO gel group. Reepithelialization was also better in the AV gel group than in the other groups. This is the first study to compare the effects of AV and NSO gels on wound healing in diabetic ulcers. Our study indicates that the AV gel is better than the NSO gel. Therefore, it is recommended that clinicians and wound care nurses use AV gel instead of NSO gel for the topical treatment of diabetic ulcers.</p>
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