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## Application of conditioned media hair follicle stem cell (HHF-SC) as a combination treatment in acne patients: A case series

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Acne vulgaris is a common inflammatory pilosebaceous disease characterized by comedones, papules, pustules, inflamed nodules, superficial pus filled cysts and in extreme cases with canalizing and deep, inflamed, sometimes purulent sacs. Oral and topical treatment is available for acne, but some of them have side effect such as teratogenic. Human hair follicle stem cell (HHF-SC) has reported for having capability for reducing inflammation in wound healing. Culturing in conditioned medium will make this stem cell secreting factors known as secretome or exosome which is able to mimic the beneficial effects of stem cell therapy. Until now there are minimal reports about application of stem cell in acne treatment. To experimentally find the effect of combination injection and topical human hair follicle conditioned medium (HHF-CM) for acne vulgaris treatment, firstly we did the grading of acne using the Plewig and Kligman classification and then measured the skin trans-epidermal water loss (TEWL) with TEWAMETER® in acne patients. We gave topical anesthesia application 30-45 minutes before treatment, then we did injection of HHF-CM in sites of acne. These patients were given topical antioxidant with HHF-CM daily after treatment. This injection procedure is re-applied after a month and we measured the improvement of acne grading. There was improvement of acne grading with this combination treatment within a month.

### Biography

Etty Farida Mustifah is currently a Dermatovenereology Resident in Faculty of Medicine Sebelas Maret University, Indonesia. She has published 3 papers in a national congress of dermatology and 1 paper in an international congress of dermatology.

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