

# CHRONIC LEG ULCER TREATED WITH COLLAGEN AND GLYCERINE-BASED DRESSING

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Leg ulcers are a very common medical condition, affecting 3% to 5% of the population over the age of 65. Venous insufficiency alone is responsible for 45% to 60% of the cases of chronic leg ulceration. Older patients and patients with venous insufficiency also show difficult in healing any kind of leg ulcer, including post-traumatic ulcer. Wound healing is complex and usually a challenge to physicians and patients. Studies show that keeping humidity turns cicatrization faster. Leg ulcers frequently become infected but glycerine in high concentration is bacteriostatic avoiding infection and the development of multi-antibiotic resistant bacteria.



Chronic venous leg ulcer with three years of evolution. The aspect is of devitalized tissue with no tendency towards healing



Stimulen™ Gel Sheet over the ulcer



One week later the ulcer is shallow and the aspect is red and vivid



Three months later the improvement is very important



82 year old patient with venous insufficiency and a small ulcer with four months evolution. The ulcer appeared after the shaving of a keratoacanthoma



Stimulen™ Gel Sheet over the ulcer



Fifteen days later the improvement was very impressive



After thirty-five days the healing was complete

	Inoculum Concentration CFU / 0.01mL	Hour Contact Time CFU/sample	Percent Reduction
<i>S. aureus</i>	$2.5 \times 10^5$	$< 1.0 \times 10^1$	$> 99,99\%$
<i>S. epidermidis</i>	$1.7 \times 10^5$	$< 1.0 \times 10^1$	$> 99,99\%$
<i>S. pyogenes</i>	$1.1 \times 10^5$	$< 1.0 \times 10^1$	$> 99,99\%$
<i>P. aeruginosa</i>	$1.2 \times 10^5$	$< 1.0 \times 10^1$	$> 99,99\%$
<i>E. coli</i>	$1.8 \times 10^5$	$< 1.0 \times 10^1$	$> 99,99\%$
<i>C. albicans</i>	$1.4 \times 10^5$	$9.3 \times 10^2$	$99,34\%$
<i>E. faecalis</i>	$2.2 \times 10^5$	$< 1.0 \times 10^1$	$> 99,99\%$
<i>A. niger</i>	$4.2 \times 10^5$	$1.2 \times 10^5$	$59,52\%$
<i>C. perfringens</i>	$3.4 \times 10^4$	$< 1.0 \times 10^1$	$> 99,97\%$

The dressing is bacteriostatic, avoiding infection without the use of topical antibiotics.

After some months chronic leg ulcers show a devitalized appearance and no tendency toward to healing. Chronic leg ulcer is a very common disease which affects the life quality of patients and is usually a challenge to physicians. It is common to be infected turning the treatment even more difficult. With the collagen and glycerine based dressing we could keep the humidity of the ulcer. It is very efficacious to healing. Since it does not stick it is also very easy and painless to change. The collagen and glycerine based dressing is bacteriostatic and fungistatic avoiding infection and probably the decrease in the number of bacteria in the ulcer helps in the cicatrization process. This kind of dressing is very efficacious in the treatment of chronic leg ulcer caused by venous insufficiency or in patients venous insufficiency.

Product used: Stimulen™ Gel Sheet

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