

## THE PLACE OF THERAPEUTIC DRESSINGS WITH SILVER\* IN THERAPY OF CHRONIC WOUNDS

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**Aim and methods:** Impaired wound healing in chronic wounds is associated with imbalance of reduced levels of active growth factors, excess inflammatory cytokines, excess levels of free radicals; imbalance between excessive metalloproteases (MMP) and their physiological inhibitors and higher level of bacteria. All these factors disturbing granulation tissue formation. The multimodal dressing we used composed of 55% collagen, 44% of oxidized regenerated cellulose and 1% of silver (0,25% ionically-bound silver)\*.

**Results and conclusion:** The therapeutic dressings with silver\* has important influence on the healing process of non-healing wounds different etiology. It's acts as a MMP scavenger, that protect growth factor; furthermore inactivates destructive proteases, scavenging free radicals, reducing levels of proinflammatory cytokines and it has antimicrobial and anti-inflammatory effects.

patient (sex, age, duration of u. in month before *)	diagnosis	before teraphy	therapy with *	after teraphy	↓ of ulcer for%
M, 58 y, 36 m	u. with GVHD	33 cm <sup>2</sup>	11 days	19 cm <sup>2</sup>	42,42
M, 73 y, 7 m	u. post radio th	155 cm <sup>2</sup>	14 days	131 cm <sup>2</sup>	15,48
M, 72 y, 12 m	venous leg u.	89 cm <sup>2</sup>	14 days	50 cm <sup>2</sup>	43,82
F, 53 y, 4 m	posttraum. u. on the arm with A-V fistula	39 cm <sup>2</sup>	39 days	12 cm <sup>2</sup>	69,23
F, 28 y, 1,5 m	posttraum.u.	5,5 cm <sup>2</sup>	7 days	0,5 cm <sup>2</sup>	90,91
average		64,3 cm <sup>2</sup>	17 days	42,5 cm <sup>2</sup>	34,11

\* Promogran Prisma®, Johnson & Johnson