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# WOUND CARE, TISSUE REPAIR & REGENERATIVE MEDICINE

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### APPLIANCE OF POLARIZED LIGHT (480-3400NM) IN THE TREATMENT OF CHRONIC WOUND DIFFERENT ETIOLOGY: NEW POSSIBILITIES

**Introduction:** Application of polarized light (480-3400nm) on cellular and molecular level stimulates chain of biostimulative effects, also stimulating and modulating reparation, regenerative and processes in defense system of organism. Visible part of spectrum of polarized light (480-3400nm) penetrates the skin, reaching papillary blood plexus and affects the circulating blood cells, but also mastocytes, fibroblasts and macrophages within the issue. Normal blood circulation is very important for not only wound healing but also the vigorous spirit. The number of people with wounds and the demand for health services will continue to increase due to changing demographics and an expected rise in the number of people with chronic diseases. Chronic wounds are a major problem to patients and health care systems. A single chronic wound can cost between €6,650 and €10,000 to treat, and it is estimated that around. 1-1.5% of the EU-population has one or more of such wounds.

**Aim:** Aim of this study was to assess influence of polarized light therapy in healing of chronic wounds different etiology and implement integrative medicine, polarized light and tuina massage, in the post-surgery management, treat post-surgery pain, prevent pressure ulcer especially for the patients of third life age after surgical treatments during hospitalization.

**Method:** We treated patients with chronic wounds different etiology. In the topic treatment we used Sodium carboxy methyl cellulose. Primary Wound Dressing with silver (NaCMC Ag). This dressing absorbs and interacts with wound exudate to form a soft, hydrophilic gas-permeable gel. The silver ions are released from the NaCMC to exert a sustained antimicrobial effect. Appliance polarized light therapy (480-3400 nm) and tuina, like integrative medicine, we stimulated the body homeostatic adjustment mechanism.

**Results:** With this therapy, we had: 1. Accelerated healing time to ulcer closure 2. The decrease of the wound surface area after the treatment was significant, all patients were without pain when we started treatment with polarized light (480-3400nm) 3. Improve the health care 4. Reduce of time and cost of post-surgery treatment.

**Conclusion:** New possibilities in the therapy chronic wounds with polarized light (480-3400nm) and tuina is: 1. Simple 2. Noninvasive therapy 3. With good results in wound healing for shorter period 4. Important in cases that were resistant on other therapy and lead to healing in cases which were supposed to be treated surgically 5. International cooperation 6. Clinical studies and participate in International Clinical research 7. Integration in the Clinical practice, education, scientific research, Academic groups and individuals 8. Integrative Medicine (polarized light and tuina) increases the chances that patients do not experience unnecessary.

#### Biography

Jasmina Begic, is a Dermatovenerologist. She finished Graduated and Post-graduated study at Sarajevo University Medical School. Made Project of clinical research about Bioptron polarized light (480-3400nm) in the treatment of Acne vulgaris, Warts and Ulcus cruris (2004). She is Medical Consultant for Bioptron, Zepton International in Bosnia and Herzegovina. Like volunteer in the area of health care founded the Association for Wound Management in B&H (2008), member of EWMA (2009) she organized Euro-Asian Forum (2011, 2012, 2014, and 2016). Certified VCC Trainer of Elderly Care. Certified VCC Trainer of Manager EU Funds. Certified Practitioner of TCM. Certified Practitioner of Herbal Medicine.

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