

Wound Dressing with Silver Nanoparticles

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ABSTRACT

Background: Body skin plays an important role in hemostasis and prevention of invasive microorganisms. In case of skin damage quickly cover the wound dressing is essential. During the research the researchers using nanoparticles of silver and polymer materials have succeeded in producing novel dressings that can repair all chronic and non-chronic wounds including infected wounds, diabetic ulcers and bed sores in the shortest possible time.

Material and Methods: This research is a descriptive study and is a review one. It has been done by using past research survey related to the subject matter at the library, theses and data bases: including: Sid, Google Scholar, PubMed, Science Direct, Magi ran.

Results: Because of the distinctive silver antimicrobial performance against a range of bacteria, yeasts, fungi and viruses, among other Nano metals, has wider application. Silver through disruption of the cytochrome respiratory chain or electron transport system and prevent the proliferation of germs and the DNA connection to put their antimicrobial plays. Silver also has anti-inflammatory effects and epitheliazation also able to quickly increase this to 40%. The main idea of dressings with silver nanoparticles is to combine wound treatment with wet method along releasing silver in the wound for controlling infection and wound healing is in motion or speed up the process.

Conclusion: Dressing of silver nanoparticles can be used to make dressings; to control the infection and accelerate healing will be used; silver nanoparticles also reduces the cost, pain during dressing change, reduce and improve wound exudates chronic wounds faster. Depending on the patient and his condition to cover the wound; Dressing of silver nanoparticles can be used in health centers.

Keywords: Wound Dressing, Silver Nanoparticle