

## The Effect of Electro Activated Superoxidized Solution Doing Wonders in Wound Care

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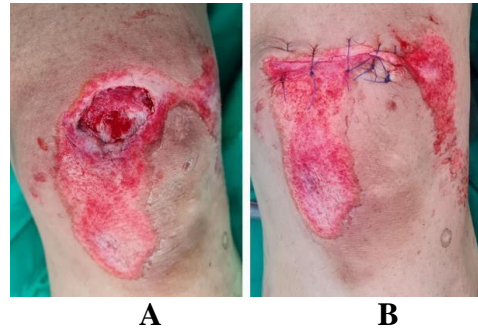
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### INTRODUCTION:

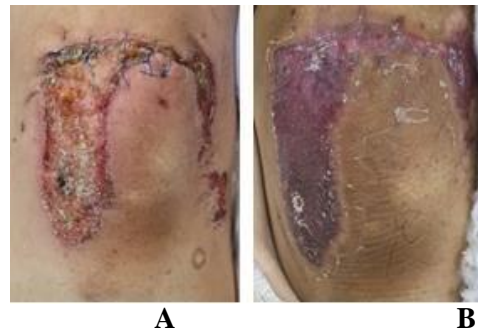
Super-oxidized solution (SOS) is widely known for its effectiveness in aiding chronic wounds to heal compared with traditional antiseptic solutions<sup>1</sup>. Hydrocyn is an antiseptic solution in the form of stable (SOS) with neutral pH which can be used for wound cleansing, debriding, irrigation and moistening wound. This study reports the effect of Hydrocyn in wound healing.

### REPORT:

A 50years old male was involved in a motorvehicle accident and sustained a skin loss at anterior aspect of left knee with surrounding abrasion wound and unicortical patella fracture. He was admitted for surgical intervention and wound care. Intraoperatively noted skin loss measuring 4x3cm at anterior knee not involving the knee joint. Wound debridement was done followed by irrigation with normal saline and SOS solution only. Povidone and hydrogen peroxide were not used for irrigation. Wound closure was done after proper wound refashioning. Postoperatively wound was kept exposed and dressed daily with Hydrocyn gel and Hydrocyn spray was used every 2-4 hours to ensure wound is moist. At day 5, the wound appear dry(fig. 2A) and no gangrenous changes noted. After 2 weeks, Hydrocyn gel was applied once daily whereas Hydrocyn spray was used every 6 hours. This regime was used until wound condition improved and complete healing noted at week 5.(fig.2B)



**Figure 1:** Intraoperative wound picture of left knee. (A) Post debridement (B) Post wound closure



**Figure 2:** Progress of wound healing. (A) Day 5 of wound condition (B) Complete healing

### CONCLUSION:

SOS is effective in wound care and act as bactericidal, fungicidal and virucidal. It is safe to use and non toxic to skin. This dressing regime is a new method which requires less clinic visit for daily dressing. It is still necessary to have more research and clinical trials to demonstrate the effectiveness and safety of this dressing method.

### REFERENCES:

1. Nair HKR, Choudhury S, Ramachandram K et al (2019) Investigation and review on the efficacy of superoxidized solution(Hydrocyn aqua) against biofilm.Wounds Asia.