

Case Report: Managing Post I&D Suprapubic Wound through Combination Therapy (Silver Antiseptic Spray, ChitoHeal Gel, and ChitoPowder) in PKD Kota Tinggi

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Figure 1: Post I&D suprapubic wound in a 50 Y/O DM type II pt. Baseline (a), after 3 days (b) and 35 days (c).

Introduction

We present a 50 years old Malay female with underlying Diabetes mellitus (DM) type II and hypertension who suffered from infected post I&D at her suprapubic area. She underwent I&D and wound debridement on 2nd May 2016. Wound breakdown was seen a few days later. Post debridement can result in an array of wound-healing difficulties and has the highest rate of surgical site infection. Location of the wound and diabetic control were the main challenge for the wound healing process.

Materials and methods

These materials were applied during the treatment.

- 1) Water for irrigation as cleansing solution
- 2) Spray Silver Antiseptic Spray (SAS)
- 3) After 45 secs, sprinkle ChitoPowder (CP)
- 4) Apply ChitoHeal Gel (CHG)
- 5) Use secondary dressings to cover the wound
- 6) Dressing changed every 3 days

Results

Impressive wound healing rate can clearly be monitored starting from day 3 to 11. Good granulation and cells epithelization activity lead to a faster wound closure.

Discussion

In this study, the effect of SAS, CHG, along with the support of CP were investigated on a post I&D suprapubic wound. The aim was to demonstrate the effectiveness and the rate of wound healing by using these advanced woundcare products.

Nanocolloidal silver content in SAS plays a vital role on the inhibition of all microorganism on wound¹. CHG used has a unique chemo-attractant properties and act like a magnet to draw macrophages, cytokines and other vital micro molecules involved to jump start the wound healing process². Furthermore, CP derived from plant cellulose biopolymer helps to stimulate healthy granulation, thus greatly speeds up the wound closure.

With the easy and effective usage of SAS, CHG and CP, the wound can be healed faster. Patient and caretaker will be able to perform dressing by themselves as well. Cost effectiveness and the psychological benefits for the patient are beyond calculation³.

Conclusion

Combination therapy of SAS, CHG and CP is safe and effectively increased the wound healing rate, thus, lead to a significant cost savings in community settings.

References

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