

Case Report: Managing Diabetic Foot Ulcer with Exposed Tendon through Combination Therapy (Silver Antiseptic Spray and ChitoHeal Gel) in PKD Jasin

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Figure 1: DFU in a 35 YO patient. Baseline, after 13 days and 48 days.

Introduction

Diabetic Foot Ulcer (DFU) are serious wounds that must be prevented through diligent care of feet and proper management of diabetes. In this case study, we present a 35 years old female patient with underlying Diabetes Mellitus (DM) who suffered from DFU. Size of the wound and the diabetic control became the main issue for progress of wound healing.

Materials and methods

These materials were applied during the treatment

- 1) Spray Silver Antiseptic Spray (SAS) generously
- 2) After 45 secs, apply ChitoHeal Gel (CHG)
- 3) Use secondary dressings to cover the wound
- 4) Dressing changed every 2 days

Results

Positive granulation and cells epithelization can be observed clearly starting from day 2 onwards. Increasing area of peri wound lead to a faster wound closure.

Discussion

Nanocolloidal silver in SAS expressed a great antimicrobial properties. Its active form of colloidal and nano size silver effectively helps to combat microorganism on the wound¹.

Chitosan biopolymer in CHG applied has a unique chemo-attractant properties, localizing macrophages, cytokines and other vital micro molecules involved. It also helps to provide moist environment for wound healing².

With the easy and effective usage of this combination therapy, the wound can be healed faster. Patient and caretaker will be able to perform dressing as well. Cost effectiveness and the psychological benefits for the patient are beyond calculation.

Conclusion

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

References

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