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Use Of Sodium Polyacrylate And A Collagen Coupled With Glycerine Based Amorphous Gel In Managing Recalcitrant Wounds



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Presented at:

International Wound Conference 2013

Organized by Malaysian Society of Wound Care Professionals

18-20 October, 2013 • Royale Chulan Hotel, Kuala Lumpur

Case Study 1

68 years old male

Bilateral Gluteal Abscess
(2 months old)
Hospital Kuala Lumpur

Right Gluteal



Left Gluteal



8-2-2013



21-3-2013



23-9-2013

Introduction

A multi-center study was undertaken to determine the efficacy of collagen & glycerin based dressing with sodium polyacrylate to manage wounds of different aetiology. There were 2 pressure injury wounds, 3 diabetic foot ulcers, 1 venous ulcer, 1 gluteal abscess and 1 motor vehicle accident wounds. Each wound was managed by 5 different hospitals which include government & private hospitals in the Klang valley.

Methodology

The wounds were assessed using the TIME concept. The wounds were cleansed using normal saline and superoxide solution. De-sloughing and debridement was done to remove the slough, necrotic tissue and devitalized tissue. The sodium polyacrylate was used to manage the exudates and bacterial burden. Following this when granulation tissue starts to form, the collagen and glycerin based amorphous gel was used to stimulate healing. The secondary dressing was applied following this. Dressing change daily for the first three days and then every 48-72 hours.

Results

All wounds started to heal with granulation tissue (secondary healing) from one month to six months depending on the severity of the wounds. There was reduction of the exudates and the bacterial bioburden. Healing was noted and the collagen with glycerin amorphous gel kickstarted the healing process. The cases are as above:

Conclusion

The usage of the sodium polyacrylate followed by the usage of the collagen and glycerine based dressing managed to heal the wounds which was the clinical outcome being measured in this study.

References:

- Harikrishna K.R.Nair, Compendium of Wound Care Dressings in Malaysia Vol 1.
- Rodrigues M and Caifa J "Use of a collagen and glycerin-based dressing for stimulating cicatrisation in diabetic ulcers and wounds; presented at EWMA 2008 Lisbon Portugal."
- Humberto M T et al "The experience of the central hospital of the military police of Rio De Janeiro, Brazil in their use of Gel-Based Bacteriostatic Dressings in patients with firearm wounds; presented at SAWC 2006 San Antonio, Texas."

Case Study 2

58 years old male

MVA / Comatose patient
with Pressure Injury
(1.5 months old)
Selayang Hospital



23-4-2013



27-5-2013
Patient discharged



18-9-2013
Home care by patient's wife.
After 113 days at home
using Stimulen Gel daily dressing.

Case Study 3

82 years old female

Diabetic Foot Ulcer (1 month old)
Hospital Kuala Lumpur



7-6-2013



26-7-2013

Case Study 4

42 years old female

Diabetic Foot Ulcer with Exposed Tendon (2 weeks old)
Gleneagles Intan Medical Center



1-11-2012



10-1-2013

Case Study 5

55 years old male

Pressure Injury (6 months old)
Hospital Kuala Lumpur



10-7-2013



1-8-2013

Case Study 6

33 years old female

DIABETIC / SLE Venous Ulcer (2 years old)
Hospital Pusrawi



14-9-2012



9-4-2013

Case Study 7

41 years old female, Diabetic Foot Ulcer (2 weeks old)
Gleneagles Intan Medical Center



11-10-2012



6-3-2013

Case Study 8

19 years old male, Motor Accident Wound (4 months old)
Hospital Putrajaya



13-8-2012



25-1-2013
Poor compliance for follow up visits