

Retro Tech Dressing (RTD) - A Novel Broad Spectrum Antimicrobial Foam Dressing To Manage Chronic Complex Non Healing Wounds.

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Case 1:	Case 2:	Case 3:	Case 4:	Case 5:	Case 6a:	Case 6b:	Case 7:
57 years old male Diabetic Plantar Ulcer (2.5 years old wound)	70 years old female Non Healing Wound secondary to Necrotizing Fasciitis (7 years old wound)	48 years old male Left Venous ulcer (6 years old wound)	54 years old male Left Venous Ulcer (7 years old wound)	67 years old male Left Venous Ulcer (8 years old wound)	58 years old Female Right Venous Ulcer (25 years old wound)	58 years old Female Right Venous Ulcer (25 years old wound)	53 years old male Right Leg Non Healing Wound (MVA) (13 years old wound)
							
12-5-2016 25-7-2016 (75 days)	22-2-2016 1-8-2016 (164 days)	19-5-2016 8-8-2016 (81 days) <i>*Plus 2 layer compression Bandage for 1st month</i>	24-3-2016 13-6-2016 (81 days) <i>*Plus 2 layer compression Bandage for 2.2 months</i>	8-4-2016 1-8-2016 (122 days)	5-5-2016 1-8-2016 (88 days)	5-5-2016 1-8-2016 (88 days)	11-04-2016 8-8-2016 (120 days) <i>RTD only</i>
Case 8:	Case 9a:	Case 9b:	Case 10a:	Case 10b:	Case 11:	Case 12:	
52 years old male 2.5 years Right Venous Ulcer (2.5 years old wound)	54 years old female Diabetic Plantar Ulcer (2 years old wound)	54 years old female Diabetic Plantar Ulcer (2 years old wound)	50 years old female Right Venous Ulcer (2.5 months old wound)	50 years old female Right Venous Ulcer (2.5 months old wound)	67 years old female Left Venous Ulcer (6 months old wound)	72 years old female Infected left DFU Post Rays Amputation (2 months old wound)	
							
11-5-16 8-8-16 (89 days) <i>RTD only</i>	12-7-2016 2-8-2016 (21 days) <i>RTD only Off loading 1 wk</i>	12-7-2016 2-8-2016 (21 days)	14-7-2016 8-8-2016 (26 days)	14-7-2016 8-8-2016 (26 days)	12-7-2016 8-8-2016 (28 days)	14-7-2016 1-8-2016 (18 days) <i>*Added Stimulen Gel from day 1 of treatment with RTD</i>	

Abstract:

Chronic complex non healing wound represents a big challenge to wound care professionals.

A study was conducted using Retro Tech Dressing (RTD^R) a novel broad spectrum antimicrobial foam dressing on 8 cases of venous ulcers, 3 cases of diabetic foot ulcers and 1 case of non-healing ulcer. These wound duration ranges from 2 months to 25 years and have been treated with multi modalities in various hospitals in the country.

RTD^R is a proprietary highly absorbent broad spectrum antimicrobial foam with Methylene Blue, Gentian Violet and Silver Ion integrated into the polymer matrix. RTD^R provides quick closing, moist, advanced oxygenation (singlet oxygen), capillary-suction-therapy and biofilm reducing dressing with bio-burden sequestration.

The study is ongoing and to date we have seen significantly marked improvement in all cases studied with varying degree of wound closure.

Introduction:

Chronic complex wounds are becoming a huge problem as patients develop infection and biofilms in the wounds. Biofilms are found in 60% of chronic wounds. Wound bed preparation looks at the bacterial burden, debridement and exudate management and the Principles of Best Practice from the World Union of Wound Healing Societies covers infection. Therefore, bacterial bioburden has to be managed. In this case series, a new Retro Tech Dressing (RTD) is used to get the infection under control so that the wound can heal normally. This dressing is a proprietary highly absorbent broad spectrum antimicrobial foam with Methylene Blue, Gentian Violet and Silver Ion integrated into the polymer matrix.

Methodology:

12 patients were selected for their wound chronicity ranging from 2 months to 25 years. All 8 cases of venous ulcers, 3 cases of diabetic foot ulcers and 1 case of non-healing ulcer were seen twice weekly at the wound care centre where their wounds were washed, debrided and RTD Dressing applied covering the wound bed then secured with gauze, gamgee and bandage. Only 2 patients were put on 2 layer compression bandage; Case 3 for the 1st month then stop and Case 4 for the 1st 2.2 months

then stop. 1 case, Case 9 was on off-loading device for 1 week the stop whereas another case, Case 12 patient was started with both RTD and Collagen with glycerine gel right from beginning of treatment.

Collagen with glycerine Lotion was applied on periwound areas for all 12 cases.

Result:

All 12 cases exhibited signs of wound healing after the bacterial burden was managed with the RTD dressing. The wound area started to reduce in terms of the length and width in all the cases. The percentage of wound reduction was from 20 to 100 % according to the type and severity of the case. Some of the cases are highlighted below:

Case 2: A 70 years old female patient with complex non healing wound secondary to necrotizing fasciitis. Patient history dates back 7 years ago with multi treatment modalities employed in various hospitals. After 164 days with RTD Dressing the wound edges have shrunk in size plus healthy granulation and epithelialization seen throughout the wound.

Case 6a / b: A 54 years old female patient suffering from right foot venous ulcer for the past 25 years. After 88 days there are clear visible signs of granulation and epithelialization over the entire wound.

Case 10a / b: A 50 years old female patient with venous ulcer enveloping the right shin for 2.5 months prior to starting RTD Dressing. In 26 days marked improvement was seen with twice weekly RTD Dressing.

Conclusion:

In all 12 cases infection was well controlled and bioburden was managed leading to healthy tissue granulation and wound closure in 1 patient. The combination of methylene blue, gentian violet and silver plus singlet oxygen (derived from methylene blue) exerts a synergistic and powerful microbial killing for both fungi and bacteria. The presence of surfactant in RTD Dressing helps in inflammation reduction and the foam with a good capillary suction helps in exudate management.

The high number of venous ulcers presented in this case series responded well to RTD Dressings.