



# The Usage of Essential Nutrition (Epigran Protein) in a Necrotising Fasciitis Wound

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**Figure 1: Initial wound on admission**



**Figure 2: Wound after 2 weeks**



**Figure 3: Wound after 4 weeks**



### **Introduction:**

Wound healing is a complex and dynamic process, with the wound environment changing and the shifting health status of an individual. Phases of wound healing include hemostasis, inflammation, granulation and maturation.

### **Materials & Methods:**

A 36 year-old obese gentleman admitted to hospital with complained of left lower limb swelling, pain and ulcer over the left calf and foot for the past three weeks. Symptom was not improved even after a week of antibiotic prior to admission. Multiple wound debridements were done. Blood investigation was performed and monitor weekly during the admission. Modern dressing was applied and Epigran Protein was given daily for a month.

### **Results:**

Weekly Hemoglobin (Hb) level and albumin level showed increasing in trend after the Epigran Protein. Hemoglobin level (g/dL) from 8.8, 9.6, 10.1 to 10.4. Albumin level (g/L) from 18, 20, 21 to 23. Patient currently waiting for Split Skin Graft.

### **Discussions:**

The complexity of wound healing makes it vulnerable to interruption at many levels. Factors that affect physiologic responses and cellular function can potentially influence wound healing. These include ischemic tissues, infection and contamination. In this case essential nutrition plays an important role.

Epigran Protein promotes epithelization and granulation for wound healing. It contains essential protein in pea and oat form, micro nutrient such as Arginine, Glutamine and Leucine. Besides it also contain correct trace element like Vitamin A, C, E, Zink, Copper, selenium and Fibruline. In addition with Japan Oryza bird's nest extract.

### **Conclusion:**

Failures of wounds to heal are generally the result of wound hypoxia, infection, edema, and metabolic abnormalities. Wounds require serum albumin levels more than 35g/L, Hb levels above 10 g/dL and a minimum oxygen tension of 30 mmHg for normal cell division.

Similar case study should be carry on to give more consistent result.

### **References:**

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