



**Service Priorities and Programmes**  
**Electronic Presentations**

**Convention ID:** 666

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**Case Report: GAME BOY liked Negative Pressure Wound Therapy ( NPWT) in promoting faster wound healing for ambulatory patient**

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**Keywords:**

Negative pressure wound therapy  
wound healing  
ambulatory

**Introduction**

A 29 year old young man with complex Crohn's disease since 2002. Adenocarcinoma found in anal canal, abdominoperineal resection of rectum ( APR ) with left side end colostomy was done on 8-11-13. His abdominal main wound was gapped after sutures removal. Advanced dressings products had been tried and changed twice daily with unsatisfactory result. After few days of care, the wound had made no progression toward healing and the patient had become frustrated and depressed with severe wound pain during dressing changes. Care with a new GAME BOY liked NPWT system was proposed on 19-11-2013 and agreed by surgeon, which may promote faster healing.

**Objectives**

(1). To promote wound healing and decrease wound pain caused by frequent dressing changes; (2). To maximize patient comfort, mobility and convenience with wound treatment

**Methodology**

ExtriCARE 2400 Negative Pressure Wound Therapy (NPWT) System with mini oval gauze dressing was applied on 19-11-13. At that time, the wound measured 6 x 3.5 x 1.5 cm with large amount yellowish slough and exudate; wound pain by visual analogue scales (VAS):7. Pressure was set at 60mmHg with continuous mode. Dressing change was to be done ~ every three days.

**Result**

There has no leakage or oozing from dressing since application of NPWT. At the first dressing change on 22-11-13, the wound size had decreased to 5.5 x 2.5 x 1.0 cm with 100% red granulating tissue at wound bed, VAS: 2. The negative pressure worked to remove total 20 ml of exudate. NPWT was re-applied and Medihoney was applied on wound bed to promote wound healing. Progress continued until 25-11-13, when wound measurement were minimal ( 3.0 x 1.5 x 0.5 cm ) with 15 ml of exudate removed, NPWT was discontinued. Simple dressing was applied and the patient was satisfied with the progress. The reduction in wound size observed in short period of

time indicates the system with non-woven pad-based dressings and silicone gel strips can deliver effective NPWT to wound bed and serve in wound closure. Patient comfort, mobility and convenience were achieved and he also reported that system was gentle to skin and dressing changes were painless.