

# Use of a Novel Silicone Backed Fabric (NSBF) to Reduce Peri-incision Tension and Support Healing of Complex Wounds

Jan Chevrette, RN MSN FNP-C CWOCN CFCN, Health Partners Wound Clinic

Mary Anne R. Obst, RN, BSN, CWON - Complex Abdomen Specialist Regions Hospital, St. Paul, MN, USA

## Introduction

Incision separation and dehiscence can be due to peri-incision skin tension related to body location, body habitus, and tissue mobility. This incisional separation can cause pain and delays in healing. Caring for patients after surgical repairs such as bariatric abdomen, abdominal/peritoneal resection and pilonidal cysts can be challenging because incisions are prone to separation due to location and tension.

## Methods

The device is a peel and place action. In our patients we applied it over dressings such as alginates, foams and gauze. Application can replace the use of tape or other adhesive securement. No skin preparation was used.

## Results

We have used NSBF\* on a total of 74 patients to date. We will be including in our poster the application and outcomes of 4 patient cases. In the patients that incisions had separated, we were able to achieve healing by applying wound care principles as tension was being consistently eliminated. In the patients that had a potential for incision disruption the prevention of tension provided the incision the support to heal primarily. Our patient population includes colon and rectal surgery, general surgery, orthopedic, and podiatry.

## Discussion

NSBF can be safely applied to peri-incision skin to prevent incision separation and support the healing of complex wounds where and incision has occurred. The financial benefit to this product is that it can be worn for several weeks, is washable and will allow for repeated changing of wound therapies. The patient benefit is, although this product is removed and replaced, has not found to injure even the most fragile skin. Patient satisfaction is that, as it is hydrophobic, they may shower with the device on.

Case 1:

**Pilonidal  
Cyst  
Excision**



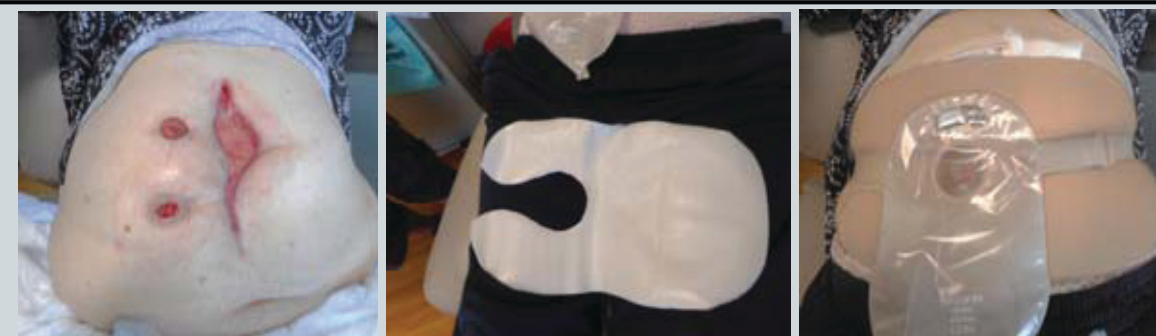
Case 2:

**Abdominal  
Perineal  
Resection**



Case 3:

**Abdominal  
Incision  
Adjacent to  
Ileostomy**



Case 4:

**Abdominal  
Incision**

