

# Pressure Injury, Diabetes, and Negative Pressure Wound Therapy: Recent Clinical Advances



## Pressure Injury, Diabetes and Negative Pressure Wound Therapy (Recent Clinical Techniques, Results, and Research in Wounds Book 3) by Shirley H. Wray

★★★★☆ 4.2 out of 5

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Pressure injuries are a common complication of diabetes, and they can be difficult to treat. Negative pressure wound therapy (NPWT) is a relatively new treatment option that has shown promise in treating pressure injuries in diabetic patients.

NPWT is a non-invasive therapy that uses a vacuum to create a negative pressure environment over the wound. This negative pressure helps to draw out fluids and debris from the wound, and it also promotes the formation of new tissue. NPWT can be used to treat a variety of pressure injuries, including stage 3 and 4 pressure injuries.

There is a growing body of clinical evidence to support the use of NPWT for treating pressure injuries in diabetic patients. In one study, NPWT was

shown to reduce the healing time of stage 3 and 4 pressure injuries by an average of 30%. Another study found that NPWT was more effective than traditional wound care in preventing the development of new pressure injuries in diabetic patients.

NPWT is a safe and effective treatment option for pressure injuries in diabetic patients. It is relatively easy to use, and it can be used in both the hospital and home setting. NPWT can help to improve the healing time of pressure injuries, and it can also help to prevent the development of new pressure injuries.

### **How NPWT Works**

NPWT works by creating a negative pressure environment over the wound. This negative pressure helps to draw out fluids and debris from the wound, and it also promotes the formation of new tissue. NPWT is typically applied using a vacuum dressing, which is placed over the wound and sealed around the edges. The vacuum dressing is then connected to a suction machine, which creates the negative pressure environment.

NPWT can be used to treat a variety of pressure injuries, including:

- Stage 3 pressure injuries: These are characterized by full-thickness tissue loss involving subcutaneous fat but not underlying fascia or muscle.
- Stage 4 pressure injuries: These are characterized by full-thickness tissue loss extending to fascia or muscle.

NPWT can also be used to treat other types of wounds, such as:

- Venous leg ulcers
- Diabetic foot ulcers
- Partial-thickness burns
- Surgical wounds

## **Benefits of NPWT**

NPWT offers a number of benefits over traditional wound care, including:

- **Faster healing time:** NPWT can help to reduce the healing time of pressure injuries by an average of 30%.
- **Reduced risk of infection:** NPWT helps to create a clean and moist environment that is less likely to become infected.
- **Reduced pain:** NPWT can help to reduce pain by reducing inflammation and swelling.
- **Improved quality of life:** NPWT can help to improve the quality of life for patients with pressure injuries by reducing pain and discomfort.

## **Risks of NPWT**

NPWT is a safe and effective treatment option, but there are some risks associated with its use, including:

- **Pain:** NPWT can cause pain in some patients, especially if the dressing is not applied correctly.
- **Infection:** NPWT can increase the risk of infection if the dressing is not changed regularly.

- Bleeding: NPWT can cause bleeding in some patients, especially if the wound is fragile.
- Skin irritation: NPWT can cause skin irritation in some patients, especially if the dressing is not applied correctly.

NPWT is a safe and effective treatment option for pressure injuries in diabetic patients. It is relatively easy to use, and it can be used in both the hospital and home setting. NPWT can help to improve the healing time of pressure injuries, and it can also help to prevent the development of new pressure injuries.

If you are a diabetic patient who is suffering from a pressure injury, talk to your doctor about whether NPWT is right for you.



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