



Negative Pressure Wound Therapy (NPWT)

What is Negative Pressure Wound Therapy (NPWT)?

It is a therapeutic wound care management technique that uses a closed and controlled vacuum together with specialty foams to help promote wound healing.

Some examples of wounds suitable for NPWT include:



How does NPWT work?

It provides a mild suction effect which helps to:

- Reduce unhealthy tissue and chances of infection
- Provide a moist environment to facilitate the healing process of the wound
- Manage wound exudate and swelling
- Bring the wound edges together for a faster healing process
- Promote healthy tissue growth

What is used in NPWT?

There are different NPWT systems which can be used for different wounds.

Generally, some of the common medical tools needed include:

- 1. Battery-operated therapy unit
- 2. Suction tube
- 3. Foam to apply to the wound bed
- 4. Transparent dressing as drape to seal wound site and prevent leakage

The above list of medical tools/equipment should be brought along to your appointments.

Suitable conditions to use NPWT:

- Diabetic foot wounds
- Post amputation wounds



For any other wounds and/or conditions, the medical team will suggest using NPWT if deemed as suitable.

Non-suitable conditions to use NPWT:

Some examples of conditions that would be red flags and/or contraindications where NPWT should not be used include:

- A severe infection of the wound
- A bone infection whereby it is not yet being addressed
- Patients who have poor or inadequate blood supply



Some examples of how the NPWT system works include:



How to take care of your NPWT system at home:



- 1. Monitor for leakage alarms
- 2. Keep the NPWT machine and wound dressings dry.
- 3. Ensure the NPWT machine is kept upright.
- 4. Keep the NPWT machine charged at all times. Ensure that the battery icon on the NPWT machine is full before travelling. Bring along a charger if travelling more than 6-8 hours. (For dialysis patients, it is advisable to bring your charger along.)
- 5. Contact the vendor if your NPWT machine is faulty or has leakage and blockage issues.

Patients are advised to head to the nearest clinic/Emergency department if they experience any of the following symptoms:

- Fever (more than 38 degree Celsius)
- Pain, swelling, redness, or warmth
- Increased tenderness over the wound site
- Pus release or foul smell from the wound area
- A sudden increase of blood in the tube which could indicate signs of active bleeding. In the event of this happening, stop NPWT immediately.

What to expect when using NPWT?

- The period of use is determined by the medical team. NPWT could be applied for 4 to 8 weeks depending on the severity of the wound. Wounds could take several weeks or months to heal.
- The NPWT dressing should be changed every 3 to 4 days. The canister should be replaced once it is full.
- You will also need a wound sandal or suitable offloading device(s) to support your wound healing.

As a patient, how will NPWT make me feel?

There may be some mild discomfort/pulling sensation at the wound initially during the first round of application, but this feeling usually becomes negligible after several applications.

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