

**Patient: 73 years old**, admitted to the general medicine ward / long-time care ward at C. Basilotta-Nicosia Hospital (EN)

**Diagnosis:** Sepsis in a patient who, as a result of immobilisation, is suffering from an infected stage 4 pressure ulcer with tunnelling (approx. 12 cm x 6 cm) on the left gluteus. Previous, non-operated fracture of the right femur, previous fracture of the left ischial and pubic ramus. Diabetes mellitus.

**The pressure ulcer is treated as follows:**

- VACUUM THERAPY SYSTEM (NPWT). Depending on the therapy, it is possible to choose between continuous and oscillating operation. SET THESIS consisting of:
  - Wound care with MOMOSAN® black, 20x20x3cm and MOMOSAN® white, 20x20x3cm
  - Transparent film, 15x30cm
  - Tube with flange for the NPWT, with the possibility of manual instillation
  - Fluid collection system with bacterial filter, capacity of 600 ml
  - Transparent polyurethane with protection, size: 15 x 30 cm;
  - Tube with flange for the NPWT, with the possibility of manual instillation;
  - LIQUID COLLECTION SYSTEM, canister with gelling agent, bacterial filter, capacity of 600 ml.
- Before the NPWT is commenced, there are several haemorrhagic episodes due to a superficial arteriole.

**Complete healing in less than 4 months!**



Pressure ulcer with a small area of granulation tissue and a necrotic tissue cavity with a depth of approx. 12 cm



Treatment up to this date:  
Irrigation with 0.9 % sodium chloride, continuous surgical debridement and filling of the cavity with sterile PU foam, followed by wound dressing to control the amount of exudation.



On **11 March 2019**, treatment of the pressure ulcer is commenced with NPWT. Due to the condition and stage of the pressure ulcer, the working pressure is set to  $100 \pm 20$  mmHg at 120 sec. The cavity is filled with MOMOSAN® black; the final layer consists of MOMOSAN® white.



SET change with MOMOSAN® on 17 March 2019



SET change with MOMOSAN® on 21 March 2019



SET change with MOMOSAN® on 21 March 2019

Due to lack of cooperation and restlessness on the part of the patient (fever episode and strong sweating, which had led to the transparent film's detachment and, as a consequence, to the intrusion of air into the SET), the next change was carried out somewhat earlier on 23 March 2019. The decision to exchange the entire set of wound care materials was made for that reason.



SET change with MOMOSAN® on 27 March 2019

Extremely satisfactory results can be seen following the 5th NPWT treatment session (27 March 2019). The pressure ulcer is in an ideal condition of cleanliness, there is a sufficient amount of granulation tissue and the size of the pressure ulcer – including that of the cavity – has decreased. New wound dressing materials are applied and changed on 31 March 2019.



SET change with MOMOSAN® on 04 April 2019



SET change with MOMOSAN® on 11 April 2019



SET change with MOMOSAN® on 15 April 2019

Up to this moment, the cavity had been filled with sterile MOMOSAN® black. Since the amount of exudate starts to decrease and, despite the manual instillation of saline through an appropriate tube system, the polyurethane causes pain upon removal of the dressing materials, the cavity is filled with MOMOSAN® white in the further course of the treatment.



SET change with MOMOSAN® on 19 April 2019



SET change with MOMOSAN® on 23 April 2019



SET change with MOMOSAN® on 28 April 2019

In order to prevent any pressure ulcer formation, a MOMOSAN® white pad is cut to size and slit and then applied around the tube.



SET change with MOMOSAN® on 02 May 2019



SET change with MOMOSAN® on 06 May 2019



SET change with MOMOSAN® on 15 May 2019



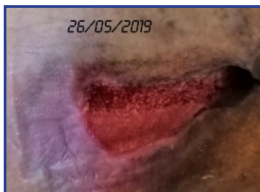




SET change with MOMOSAN® on 19 May 2019



SET change with MOMOSAN® on 24 May 2019



SET change with MOMOSAN® on 26 May 2019

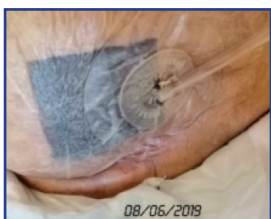


SET change with MOMOSAN® on 30 May 2019

As the granulation process has decreased recently, sterile MOMOSAN® black is used again.



SET change with MOMOSAN® on 03 June 2019



SET change with MOMOSAN® on 08 June 2019

MOMOSAN® black has clearly stimulated the cause of the lesion and led to the restart of the granulation process. The depth of the cavity has decreased. The use of MOMOSAN® black is continued so as to keep the granulation process stable.



Due to the achieved result, which shows a further size reduction of the lesion and a good granulation process, MOMOSAN® white is used again.



SET change with MOMOSAN® on 13 June 2019

The condition of the lesion has improved to such an extent that the NPWT is stopped. The conditions for using this treatment are no longer met. The small open lesion and the cavity with a depth of approx. 1 cm are continuously monitored and cleansed.



SET change with MOMOSAN® on 24 June 2019

Start of the NPWT on 11 March 2019  
End of the NPWT on 24 June 2019  
Total number of days: 106  
Number of used SETS: 25



Despite daily cleansing, the small 1-cm-deep cavity had not healed completely until 11 August 2019, which was when the treatment was finally stopped.



before



after