USE OF NEGATIVE PRESSURE WOUND THERAPY IN DIABETIC FOOT: CASE REPORT

Aim: To report the use of Negative Pressure Wound Therapy (NPWT) in the treatment of Diabetic Foot (DF).**Method:** This case report was made through review of medical records and photographs during treatment. The study was carried out with patient consent.

Results / Discussion: A 63-year-old elderly patient with a history of hypertension, diabetes, and diabetic ulcer on the right foot was admitted due to extensive gangrene in the right heel with exposed bone. He underwent surgery for wound debridement and drainage of an infected collection. After the procedure, good local perfusion was observed, suggesting the possibility of limb salvage. The wound had serosanguinous discharge and a large area of exposed calcaneus. After approximately 1 month of special dressings, NPWT was initiated, leading to significant improvement. NPWT is an effective approach in DF ulcer treatment, involving the application of controlled negative pressure to the wound, facilitating fluid removal and stimulating healing. In the context of DF, this therapy enhances local blood perfusion, reduces inflammation, and accelerates granulation tissue formation, promoting ulcer healing. Additionally, it can be combined with other treatments to optimize outcomes and preserve diabetic patients' limbs.

Conclusion: In summary, this case report emphasizes the effectiveness of NPWT for DF treatment and led to substantial improvements in the patient, reducing the ulcerated area, improving local blood flow, and speeding up the healing process. This highlights NPWT as a crucial tool in treating DF ulcers, providing not only faster healing but also preserving limbs and enhancing patients' quality of life.

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04/08/2023 – One day of treatment

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05/09/2023 - one month of treatment

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After 18 days of NPWT

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