

"Management of Complex Wounds: Clinical Case of Crushing and Advanced Treatment"

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Objective: To describe the treatment and clinical evolution of a 52 years old male patient with necrosis of the fingers of his right hand after an accident at work.

Method/Case report: A 52 years old male patient was crushed in a work-related accident on his right hand and presented with necrosis of the third and fourth fingers. He was referred 7 days after the trauma and admitted to the emergency room of a tertiary hospital in Londrina (PR). He underwent correction and debridement on 10/10/2024, followed by Negative Pressure Therapy (NPT) at a pressure of -120 mmHg. A return visit and new debridement were required on 11/04/2024, also followed by NPT, this time associated with a Hyperbaric Oxygen Therapy (HBOT) protocol, totaling 14 sessions. The evolution of the wound bed was favorable, resulting in a skin graft from the right thigh to the right hand on 11/11/2024.

Results: The treatment, which included surgical debridement, Negative Pressure Therapy (NPT) and Hyperbaric Oxygen Therapy (HBOT), resulted in a favorable evolution of the wound, allowing the performance of a skin graft, promoting quality of life for the patient.

Conclusion: The combination of NPT and HBOT was effective in promoting the healing of the patient's wound, culminating in the possibility of a skin graft, which indicates a good prognosis for functional recovery of the hand.

Key words: Work accident; Necrosis; Negative Pressure Therapy (NPT); Hyperbaric Oxygen Therapy (HBOT); Skin graft.



Figura 1 - 09/10/2024



Figura 2 - 28/10/2024



Figura 3 - 28/10/2024



Figura 4 - 11/11/2024



Figura 5 - 11/11/2024