

## **JETOX™, AN IMPORTANT AID IN CLEANSING AND DEBRIDEMENT OF WOUNDS**

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### **Introduction**

Today the use of sprays is largely recommended for cleansing and effective wound debridement within the process of wound healing. Such practice is often difficult to implement in clinical and institutional facilities due to the lack of availability or the access to spray systems within the facility. Sometimes it is necessary to take a patient out of the facility, which involves a risk of transmitting nosocomial infections and not sustaining the level of comfort in the patient's care.

### **Patient and Method**

The device (Jetox™) is a portable system, sterile and adaptable either to an oxygen outlet in the wall or to a portable vessel. The device is comprised of a plastic nozzle with double openings, a flexible plastic connector attached to the oxygen outlet, and another one attached to a dispenser of saline or another prescribed solution. Oxygen is regulated at the range of 15-30 l/min or 2.8/5.6 bars which allows obtaining the medium flow of 15 ml/min for the homogeneous jet spray directed at adjustable speed levels depending on the wound type.

The observation was completed in ten patients who had Jetox™ system applied to chronic wounds of various etiology: eschars and post-surgical wounds.

Overview of clinical cases will illustrate this presentation.

### **Results**

Since the device in question is portable and lightweight, its installation within the hospital facility is practical and fast and does not require moving of a patient outside his or her ward.

The wound is cleansed and debrided by a jet spray applied at adjustable speed, which could be instantly interrupted with a regulatory valve located on the nozzle. Patients had no complaints regarding any discomfort or pain. Some of them even noted that the experience was pleasant. Its effectiveness was demonstrated by debridement of wounds through removal of fibrin and "awakening" or stimulation of tissues, observed with the naked eye. The system was also used in cases of bruised, sulcated and cavity wounds.