

Successful Experiences in Maggot Debridement Therapy on Patients with Diabetic Foot Ulcers and Kidney Disorders

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ABSTRACT

Background: Maggot Debridement Therapy (MDT) is introduced as one of the best treatment option for various kinds of chronic wounds. The patients with chronic wounds may suffer many side complications such as kidney disorder. The complicated disorders of patients with diabetic mellitus may lead to fail the treatment approaches. The aim of this survey was to study effectiveness of MDT on patients with diabetic mellitus who suffer such complicated disorders.

Material and Methods: We experienced MDT on five patients with diabetic foot ulcers who suffered kidney disorder as well. The patients were recruited from multidisciplinary wound clinic in ACECR – Tehran University of Medical Sciences branch. The age range was between 30-80 years old with at least ten year experience of diabetes. All patients had been informed about ethical terms and conditions of the study and signed consent form before enter to the study. Sterile larvae of *Lucilia Sericata*, which were reared in a laboratory at Tehran University of Medical Sciences, were applied on wound surface by an experienced practitioner. The MDT and appropriate dressing were repeated three to seven times based on the wound surface screening.

Results: Four patients were treated successfully, while the other one did not show any improvement due to failing of granulation tissues. Modern Maggot Therapy may leads to improve wound healing process in diabetic foot ulcers who suffers kidney problems. There are controversies on combination of the MDT method with standard care for diabetic foot ulcers with kidney disorders. But, no side effects

were reported following these patients in two months. Some researchers suggested using the MDT before hemodialysis for the patients with diabetic foot ulcers who suffered kidney disorders.

Conclusion: The MDT may help to improve healing process in patients with diabetic foot ulcers who suffer kidney disorder. More randomized controlled trials are necessary to provide better clarification of this concept.