

Abstract

Introduction: Syndrome of diabetic foot is a severe complication of diabetes mellitus disease, which can lead to an amputation of a part of lower limb, and therefore worsen the quality of life for a patient. Contemporary findings on usage of vacuum-compression therapy show huge potential of this method to significantly decelerate progress of diabetic foot, or even to cure already developed defects completely.

Aim: Aim of this work is to find out whether series of twenty procedures of vacuum-compressive therapy can improve perfusion in badly ischemic tissue of a foot.

Results: Positive effect of vacuum-compressive therapy manifested with all the six patients and their nine feet with diagnose of diabetic syndrome in zero stadium according to Wagner-Meggits scale. Measuring was done before, during and after the procedure.

Methods: Observation of casuistry collections using laser Doppler flowmetry. Five limbs were measured during the first as well as during the twentieth procedure, four patients were only measured during the first procedure

Conclusion: Results prove the objectively high efficiency of vacuum-compressive method to improve immediate and long-term perfusion of lower limbs attacked by critical limb ischemia induced by diabetes.

Key words: peripheral diabetic complications, diabetic polyneuropathy, ischemic diabetic foot, diabetic foot, critical limb ischemia.