

عنوان مقاله:

Importance of diagnostic technique of diffuse reflectance spectroscopy in studying treatment trend of diabetic's patients

محل انتشار:

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خلاصه مقاله:

Diabetes is a metabolic disorder which affects all organs of the patient's body. Worldwide, due to the outbreak prevalence of diabetes, health care systems and research centers attention has increased. In Iran, the prevalence of the disease in different regions is ranging from 3 to 17%. Late time of diagnosis and the use of improper treatment lead to irreversible consequences, including amputation of the affected foot. Optical spectroscopy technique as a useful, safe, less invasive and real time method is reliable for evaluating and differentiating between healthy and diseased tissue, benign and malignant ones. Diffusion reflectance spectroscopy (DRS), is a technique that uses light sources in visible and near-infrared spectrum (400-800 nm), able to measure the optical properties of tissue including absorption and scattering coefficients of biological tissue and tissue chromophores change such as oxy / Deoxy-hemoglobin in the physiological process. The use of optical spectroscopy techniques can be effective and complementary method to evaluate the progress or lack of improvement in the patients compared with observative methods that may affect decision in the other clinical stages. In this review, we try to discuss the effect of DRS for assessing the levels of hemoglobin oxygen saturation of hemoglobin in the microcirculation and investigating the healing changes in diabetic foot ulcer disease under different treatments. Diabetic's patients in different groups with .and without diabetic foot ulcer before and after treatment are assessed

کلمات کلیدی:

Diffuse reflectance spectroscopy, Hemoglobin oxygen saturation, Diabetes foot ulcer

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