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Healing of Bone Affections and Gangrene with Low-Intensity Laser Irradiation in Diabetic Patients Suffering from Foot Infections.

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Abstract

OBJECTIVE:

Evaluation of low-intensity laser irradiation on the healing of bone affections and gangrene in patients suffering from diabetic microangiopathy.

DESIGN:

Case-report study.

PATIENTS:

Two consecutive diabetic male patients with gangrene, osteomyelitis, and bone fractures.

INTERVENTION:

Helium-neon laser irradiation (36 J/cm²) 50 min/day.

MAIN OUTCOME PARAMETER:

Healing of gangrene and corticalis lesion as well as remineralisation of bone affections.

RESULTS:

Within a mean period of 14 weeks not only a complete healing of the diabetic gangrenes but also a radiographically determined reestablishment of corticalis and remineralisation of preexisting bone affections could be achieved.

CONCLUSION:

We therefore conclude that low-intensity laser irradiation should be further tested as an additional beneficial therapeutic modality for the healing of gangrene and bone affections in diabetic patients.

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