Natural Remedies Effective for the Healing of Diabetic Wounds

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Diabetes mellitus is one of the major metabolic disorders that is associated with high blood glucose caused by the inability of the body to use glucose (1). Studies have shown that about 5% of the world's population is affected by diabetes. Diabetes is associated with severe complications such as diabetic ulcers, neuropathy, nephropathy, and retinopathy. Diabetes is a common and debilitating disease in humans that can cause serious problems for the organs. One of these problems is chronic and resilient wounds that are commonly found on the feet of these patients. This complication is also called diabetic foot (2). Although different treatments are currently used to treat wound healing, no effective and low side effects treatment has been found. Medicinal plants are now used to treat diseases (3-6), especially diabetic wounds (7). Effectiveness of drugs, supplements and substances are identified during drug studies (8). Certain natural and herbal medicines are used to repair wounds in diabetics that Trigonella foenum-graecum, Aloe vera, Rubus fruticosus, Vitis Vinifera, Prosopis farcta, Ferula assa-foetida, Cinnamonum zeylanicum, Melilotus officinalis, Melilotus officinalis are the most important cases. These plants can improve diabetic wounds by reducing blood glucose levels, stimulating collagen production, faster contractions of the wound and angiogenesis. High blood glucose leads to an abnormality of the inflammatory stage, preventing cell proliferation, high levels of matrix metalloproteinases, and an increase in inflammatory cytokines (9,10). This process can be affected by herbal ingredients and improve the healing of diabetic wounds.

REFERENCES