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Biological impact of Curcumin on tongue ulcer healing in induced diabetic rats

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Curcumin is a popular traditional medicine was first used in Indian and traditional Chinese medicine; it has a wide range of beneficial properties, including anti-inflammatory, antioxidant, chemo-preventive and chemotherapeutic activity. It can modulate growth factors and their signaling pathways; transforming growth factor β 1 (TGF- β 1), platelet-derived growth factor, insulin-like growth factor and colony-stimulating factors. The presence of TGF- β in the granulation tissue is of a great importance for efficient healing, since it was shown to stimulate angiogenesis, fibroblast proliferation, myofibroblast differentiation, and matrix deposition. Growth factors levels are affected in diabetes mellitus; TGF- β levels within the wound fluid from diabetic rats were diminished and normal elevation of TGF- β in acute wound was absent in diabetic patients. Oral administration curcumin increase the endogenous biosynthesis of TGF- β resulting in increased migration of epithelial cells; which lead to smaller ulcer size in the first 9 days.

Biography

Menatalla is an assistant professor of oral biology; she has graduated from Mansoura University at 2006 and completed her master at 2010 and PhD from 2015 at the same institute. She has been teaching oral biology and dental anatomy for 10 years for both under and post graduate since she was a demonstrator, she is the director of international student affairs unit.

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