

Hyaluronic acid in dentistry

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Al-Wattar MWA. Hyaluronic acid in dentistry. *Dentist Case Rep* 2018;2(2):37.

EDITORIAL

Hyaluronic acid is one of the most important components of connective tissue. It present in extracellular matrix of, synovial fluid, and other tissues. Its biological action comes from their relation to growth factors with and rule of the osmotic pressure, and tissue lubrication. All these functions help in maintaining the structural and homeostatic integrity of the tissue. Hyaluronic acid is synthesized by most cells of the body which occurs in the cell membrane by a membrane-bound protein and secreted directly into the extracellular space mainly by fibroblasts in the existence of endotoxins.

In dentistry, hyaluronic acid has shown anti-inflammatory anti-edematous, anti-bacterial and wound healing property which is useful in the treatment of many oral diseases like periodontitis which is mainly caused by different types of bacteria present in sub gingival plaque with mechanical therapy that cause tissue regeneration. This type of treatment would beneficial to many patients especially who are susceptible to systemic diseases like cardiovascular diseases and diabetes which provoked by periodontal diseases.

HA in gingivitis

Nowadays HA is a useful adjuvant treatment in gingivitis therapy. Topical treatment with 0.2% HA either in spray or gel twice daily for a 3-5 week period in addition to scaling and routine oral hygiene had a beneficial effect in the patients affected by gingivitis, improving the plaque indices, papillary bleeding index (PBI), and gingival crevicular fluid (GCF) variables provided a significant improvement in the gingival index (GI) and PBI when compared with other types of treatment.

HA in chronic periodontitis

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Received: May 04, 2018. Accepted: May 23, 2018. Published: May 31, 2018



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