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Current Approach for the Management of Osteoradionecrosis with Pentoxifylline and Tocopherol

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Osteoradionecrosis (ORN) is a devastating complication of radiotherapy, and outcomes in alteration of the appearance and function of the oral cavity and jaw that creates substantial deterioration in patient quality of life. Osteoradionecrosis can be spontaneous but primarily related to hypovascular, hypocellular, and hypoxic conditions that exist in bone. Mandibular ORN is more common when compared to maxilla. ORN incidence ranges from 2% to 22% and, in the 70% of cases, ORN occur within 3 years after radiation therapy. Several factors in the literature are interrelated with the risk of developing ORN. These include total radiation dose, dental extractions, poor oral hygiene, tobacco, alcohol use, tumor size, location and staging. In addition to antibiotics, treatment options for osteoradionecrosis includes surgical approaches, hyperbaric oxygen therapy, and combined therapy with pentoxifylline and tocopherol, among this combined therapy with pentoxifylline and tocopherol have been newly introduced. The combined use of pentoxifylline with tocopherol (vitamin E) has been justified by a synergistic antioxidant effect. These are easily available and safe drugs. Researches have shown that this combination noticeably minimizes the chronic damages of radiation therapy. Therefore, the purpose of this paper is to discuss the definition and classifications of ORN, its pathogenesis and risk Factors, previous management options, basic information on pentoxifylline and tocopherol and current reports of pentoxifylline and tocopherol combined therapy.

Biography

Dr. Gaurav Vishal is an Oral and Maxillofacial Surgeon (M.D.S), Fellowship in Oral Oncology and Reconstructive Surgery. He completed M.D.S- Oral and Maxillofacial Surgery from Institute of Dental Sciences, Bareilly, India in 2020 and Fellowship in Oral Oncology and Reconstructive Surgery from Rohilkhand Medical College and hospital, Bareilly, India in 2021. He has received the Emerging Oral Onco Surgeon Award by HPP Cancer Hospital & Research Institute, with collaboration of Indian Medical Association, Lucknow, India. He has participated in various International conferences as a Speaker and Moderator. He is an expert in the field of Facial Trauma, Surgical Pathology, Basal Implantology, Oral Oncology and Reconstructive Surgery. He has several International and National Publications to his credit.