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Restorative Approaches to Oral Hard and Soft Tissue Loss Induced by Cystic Defects: Principles, Techniques, and Advanced Therapeutic Strategies

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Untreated maxillary cysts—whether odontogenic, non-odontogenic, or pseudocysts—can result in severe complications that compromise both oral health and overall quality of life. These complications may include extensive bone loss with reduced structural resistance and risk of pathological fractures, secondary infections with acute episodes, pain and swelling of considerable extent, as well as damage to adjacent anatomical structures such as teeth, the nasal cavity, maxillary sinuses, and the mandibular canal with its contents. The purpose of this presentation is to assess the utility of various classical and modern materials, techniques, and technologies in developing individualized treatment protocols tailored to patient-specific characteristics, thereby ensuring successful management of these lesions. This presentation will highlight diagnostic and therapeutic advances such as cone beam computed tomography (CBCT), fractal and radiomic analysis, piezoelectric surgery, navigation-based endoscopic enucleation (NBEE), the comparison between simple

enucleation and marsupialization/decompression or their combinations, as well as the adjunctive use of autologous blood concentrates, collagen membranes, and bone grafts from various sources for guided bone regeneration. The theoretical framework will be complemented by a series of clinical cases reflecting personal experience in the management of maxillary cysts.

Biography

Dr. Gioga Cherana, an Oral and Maxillofacial Surgeon, graduated from the University of Medicine and Pharmacy Timișoara in 1992 and completed her specialty training in 1998. She earned her PhD in Dental Medicine in 2015 and is currently a lecturer at "Titu Maiorescu" University of Bucharest. With over 30 years of clinical experience, she practices at her private clinic, Oral Art in Constanța. Her expertise includes maxillofacial surgery, implant-prosthetic rehabilitation, minimally invasive techniques, and over 20 years of work with the Bicon implant system. Dr. Gioga is widely published, active in research, and a frequent speaker at national and international dental congresses.