

Saturday March 4, 2023, 10h35

Title of the session: **Muco-gingival surgery in orthodontically treated patients**



Moderator: **Prof. Virginie Monnet-Corti**, Professor and Head of the Department of Periodontology, Aix Marseille Université, Marseille, France. President of the PerioMasterClinic 2023.

Abstract

When a patient (child or adult) needs orthodontic treatment, their periodontium must be able to withstand the induced movements especially if they have a history of periodontitis or a thin phenotype. At present, given the exponential increase in the use of orthodontic treatment in adults, it is necessary to prevent the appearance of recessions which are major periodontal complications, especially biological but also aesthetic. Due to the lack of scientific guidelines the clinician chose a treatment approach according to his own expertise and experience. In addition, the orthodontist who is asked to perform the dental movement also bases his or her treatment choices on clinical experience. The management of patients at risk of periodontal disease is not the most common situation in some orthodontic practices. A better understanding of the risks involved and how to avoid or treat them will benefit all our patients. This session will: (a) present the muco-gingival challenging situations associated with orthodontics (b) explore the limits and possibilities in the coordination between orthodontics and periodontics (c) discuss the relationship between orthodontic treatment and long-term development of gingival recession, (d) illustrate the clinical situations that need orthodontic preparation prior to surgical coverage of gingival recession, (e) present clinical cases and surgical videos to illustrate the basic concepts and techniques for surgical coverage of gingival recessions (f) present therapeutic success of a patient with a thin phenotype and a history of periodontitis during and after orthodontic treatment.



Dr Natasha Lioubavina, PhD is a periodontist and implantologist specialist. She is vice-president of the Netherland Society of Periodontology. She will, based on her long-term clinical experience,

present the ***“Muco-gingival challenging situations in order to explore the limits and possibilities in the treatment planning and coordination between the two specialities.”***



Prof. Anton Sculean, professor and chairman of the Department of Periodontology and currently the Head of the Dental Research Center (DRC) of the School of Dental Medicine, University of Bern, Switzerland and

Prof., Professor and Chair at the Department of Orthodontics and Dentofacial Orthopedics, University of Bern, Switzerland

They will present based upon a great experience shared together, the ***Interdisciplinary approach in the treatment of gingival recession in post-orthodontic patients.***



Dr. med. dent. Brenda Mertens, performs clinical work in her own Private Practice limited to Periodontology and Oral Implantology in Montpellier, France, author and co-author of several articles and chapters on periodontics, she is currently the Scientific Vice president of the French Society of Periodontology

She will present in a clinical pitch her answers the usual questions we ask ourselves when faced with a young patient with periodontitis who will require orthodontic treatment to correct her secondary migrations. when can we start the orthodontic treatment? What is the best timing to realise the treatment of her periodontitis? And what is the best timing to realise the periodontal plastic surgery? Before, during or after the orthodontic treatment?

Aims:

1. To preventing the risk of gingival recession during orthodontic treatment .
2. To know the methods of evaluation of the periodontal phenotype
3. To know how to manage the fine periodontal phenotype at risk in relation to the vestibular position of the teeth
4. To Identify cases at risk to avoid biological and aesthetic complications.
5. To learn the evidence about the relationship between orthodontic treatment and gingival recession
6. To recognize the patients that need orthodontic preparation prior to surgical coverage of gingival recession

7. To understand the basic concepts of surgical coverage of gingival recession in orthodontically treated patients
8. To ensure therapeutic success of a patient with a thin phenotype and a history of periodontitis during orthodontic treatment.

Key points to remember

- A thin periodontal phenotype associated with buccal tooth position are often the common factors in single or multiple recession defects.
- Active orthodontic tooth movement can induce gingival recession when teeth are moved outside the periodontal envelope
- Knowing how to choose the right moment (before and after) to perform muco-gingival surgery to cover the roots or reinforce the phenotype in connection with orthodontic treatment.
- When muco-gingival surgery is carefully chosen for specific patients and sites it can result in quite predictable good clinical and aesthetic outcomes.
- It is possible, with a controlled periodontal risk, to perform orthodontic treatment in an adult patient with a history of periodontitis and fine phenotype.