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Bone and soft tissue, from biology to clinic.

### **Lecture Abstract**

Stability of the osteo-mucosal complex is a key element in the longevity of our implant restorations.

However, despite the high predictability and excellent long-term survival rates reported for implant therapy, complications may still occur and can jeopardize both short- and long-term success.

They can be categorized as technical/prosthetic-related factors, biologic-related aspects that directly affect the health of the implant and finally patient-related components such morbidity or esthetic result.

Several parameters must be evaluated to avoid or reduce these complications in order to achieve the stability of the osteo-mucosal complex.

Recent evidence indicates that besides the need for sufficient bone volume, the importance of soft tissues in this stability is no longer questionable, as well as in aesthetic harmony. What would be the threshold of these parameters and how to achieve it?

Other factors will also play a major role in the stability of this osteo-mucosal complex such as factors related to implant material, surgery and prosthesis. Furthermore, emerging evidence points to the pivotal role of patient's biology, so how can it influence the prognosis of the implants?

The different biological and clinical interactions around the osteo-mucosal complex will be developed with a clear objective, the simplification and predictability of our implant treatments.

### **Learning objectives**

- Identify the factors influencing the stability of the osteo-mucosal complex and try to understand how these factors may jeopardize our implant restorations.

- Propose scientifically validated clinical solutions and identify the technical and material elements essential to the stability of our results.
- Present through clinical cases, simplified procedures to reduce morbidity and invasiveness for patients, and, on the other hand, to provide the same effectiveness in term of functional and aesthetic outcomes.