



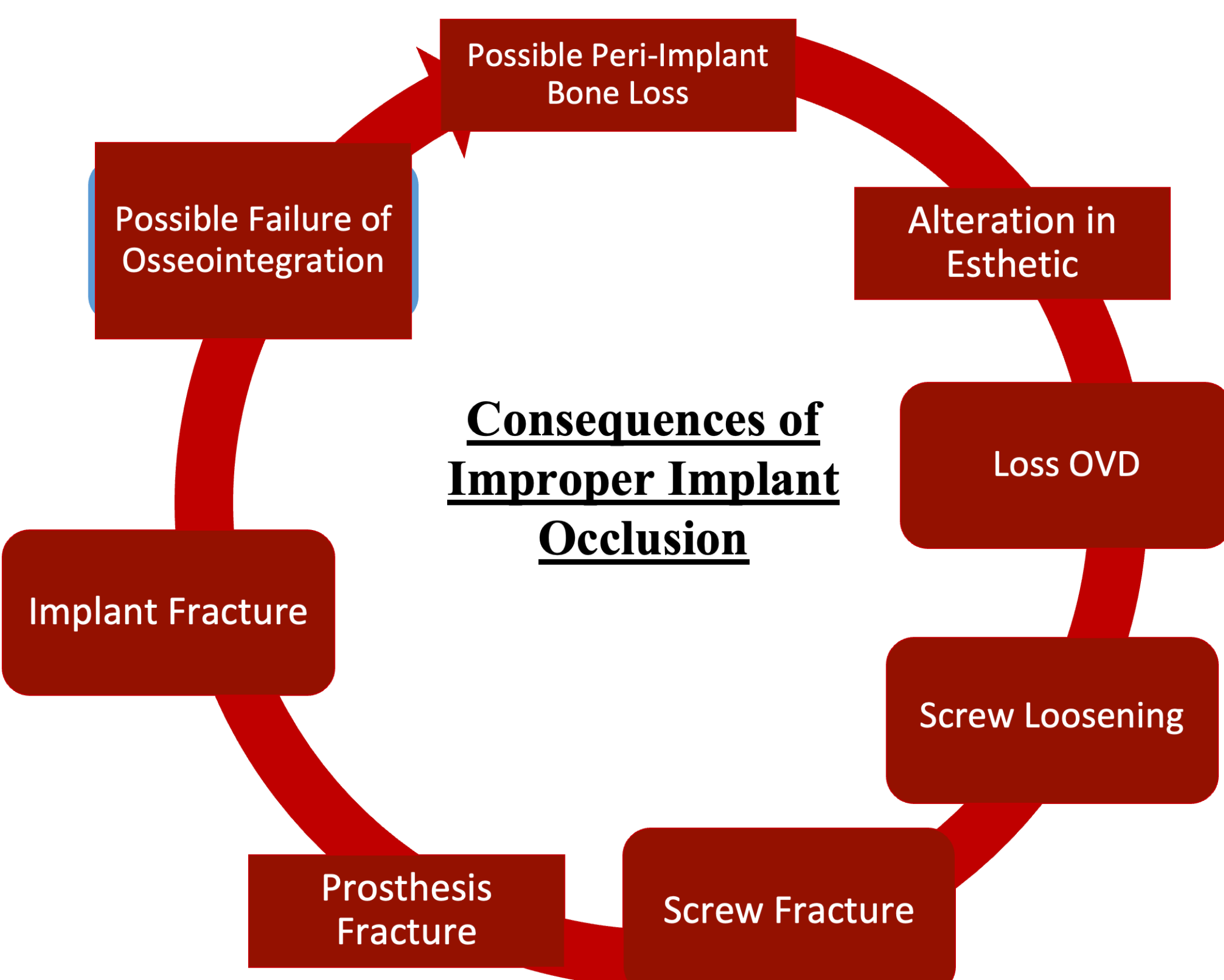
No Longer Delusion - Occlusion is the Solution: Why Occlusion and Accurate Jaw Record Define Implant Success.

Dylan Guzman, DDS Candidate;
Marco Bergamini, DDS, MSD, FACP ; Amerian Sones, DMD, MS, FACP
Texas A&M University College of Dentistry



Introduction

Accurate jaw records are the cornerstone of successful implant rehabilitation for partially and fully edentulous patients and cannot be reliably achieved through digital workflows or simple bite registration alone. Predictable outcomes require hands-on, chairside techniques using stabilization recording bases, muscle conditioning, pre-implant therapy, and precise determination of centric relation and vertical dimension of occlusion. While All-on-X treatment delivers fixed restorations, its success is rooted in foundational removable prosthodontic principles. Clinicians trained in denture prosthodontics are uniquely positioned to establish ideal occlusion, resulting in durable, life-changing outcomes and improved satisfaction for both patients and providers. The aim of this poster is to present a long-term successful case of an implant-supported fixed complete denture utilizing a newly designed gothic arch tracing (GAT) and zirconia restorations.



Case Presentation



Conventional vs Printed GAT



GAT Advantages

- Produces physiologically favorable, repeatable CR record
- Patient-guided, no external influence
- Allows for production of precise, static record of CR position

Conclusions

The use of digital designed gothic arch tracing devices for the maxillary and mandibular implanted edentulous arches provided the foundation for accuracy in the development of the final full arch zirconia dental implant restorations. No occlusal adjustment was required on delivery day, and the patient's life was changed with esthetics and functional targets achieved. The dental implant team is inspired by the power of dental implant dentistry as the hands-on, personalized care changes the lives of patients.

References

