

Important Numbers in Implant Dentistry

10



THE MOST COMMON COMPLICATION AFTER 10 YEARS USING ROOT MEMBRANE TECHNIQUE

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Objectives

Root membrane technique is now celebrating its 10 years full of work and research anniversary. In the everyday practice we as dentists follow the will of the patients for less pain, less bone loss and the most aesthetic results. Sometimes, even though we follow the technique step by step, we conclude in complications. The most common during these years of study is the fracture of the buccal part of the root.

Materials and Methods



In this case report, the treatment plan is to place an implant in tooth #13 (fig 1). We study the CBCT scan, follow the rules of the Root Membrane technique, separate and finally remove the palatal from the buccal part of the root. We carefully continue with the drilling process and we are ready to place the implant.



Exactly after placing the implant we realize the fracture that we get on the middle of the buccal part of the root. (fig 2).

Results- Conclusions

After the research and the documentation of similar cases regarding Root Membrane technique, we conclude that this kind of fracture is the most common complication. We proceed in a new CBCT scan to view the depth of the fracture. In case it is a perfect fracture, we have to remove the implant and the buccal parts, bone graft and place a new implant. On the other hand if it's not a perfect fracture, we can definitely leave it as it is in figure 2. Soft tissue will cover the fracture and provisional prosthesis is placed above. The answer to the question "why that happens" is the architecture of Anyridge. Its conical design leads to pressure too much the cervical part of the root and sometimes even fracture it only around 2-3 mm in depth. That's why we don't have to remove the implant or the root.

References

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