

Important Numbers in Implant Dentistry

1→10



FROM 1(ONE) TO 10(TEN) THE STEPS USING ROOT MEMBRANE KIT

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Objectives

Root membrane is well known as a very conservative and minimally invasive technique, entered successfully in the daily practice. After a lot of work, results and research all clinicians have on their hands the Root Membrane Kit. It includes a good number of burs that helps any dentist understand how to follow the Root Membrane technique.

Materials and Methods



Fig 1. Initial situation of the patient. Teeth number #11, #21 and #22 are in need of immediate implant placement following the Root Membrane technique and using the kit. Neither carries subgingivally nor fracture was noticed from the CBCT.

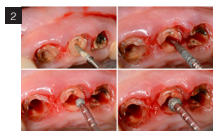


Fig 2. The first two burs are used for preparation and separation of the buccal from the palatal root after removing the root canal treatment. The bottom two burs are used to round the buccal plate and reduce the thickness.

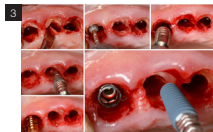


Fig 3. The palatal part of the root is ready to be removed. The final shaping of the buccal plate is done with the biggest round bur. The next step is to reduce the height and then make the funnel shape. The above steps will help the buccal plate to be covered subgingivally and covered with healthy soft tissue.

Results- Conclusions



As we can see we have a perfect funnel shape, there is no need for extra bone or tissue graft and we have satisfying primary stability of the implants (fig 4). Furthermore this surgical kit helps any clinician respect the soft tissue, the anatomy of the root and the remaining bone. Finally the Root Membrane technique can be achieved with the surgical kit successfully even in unpredictable cases with good aesthetic result.

References

1. Siormpas Konstantinos D. et al. Immediate Implant Placement in the Esthetic Zone Utilizing the "Root-Membrane" Technique: Clinical Results up to 5 Years Postloading. IJOMS.2014;29(6):1397-1405
2. M.Mitsias et al. A step-by-step Description of PDL-Mediated Ridge preservation for Immediate Implant Rehabilitation in the Esthetic Region. 2015;35(6):835-841

