Immediate Loading of Cylinder Screw Implants with Overdentures in the Mandibular Symphysis: A Revisited Technique

Historically, a strict surgical implant protocol required a stress-free healing period of 3 months for the mandible and 6 months for the maxilla between placement and functional loading of endosseous implants. An initial 2-week period without any removable prosthesis was recommended in edentulous patients. This inconvenient period may preclude some patients from seeking implant treatment. However, such recommendations are a result of evaluating randomly chosen healing times during the initial phase of healing.

More than 20 years of experience. Article in German.

Rapid implant-prosthetic rehabilitation
Cost & time effective treatment
Minimal surgery
High patient acceptance
Proven protocol

FRIALOC® Implant System
Transgingival implant for immediate loading
Conical section
Transmucosal collar
Intra-osseous threaded section
Blasted/acid-etched FRIOS® surface

Requirements on bone volume
Dense bone: enlargement of receptor side
Light bone: crestal reduction

TERMINUM

ARMAMEN-

CONCEPT

Immediate loading of 4 rigidly bar-splinted FRIALOC® Implants

- Minimum 4 implants
- Minimum 10 mm implant length
- Absolute primary stability of implants must be achieved at time of insertion.
- If not, the case should be treated in two stages
- Rigid splinting of the implants to avoid macromovement
- Triangular distribution of the implants ("Cross-arch" stabilization)
- A P implant spread as wide as possible to avoid rotation

In the edentulous mandible. The poster will revisit the approach of immediately loaded cylinder implants by a U-shaped bar in the edentulous mandible. Four grit-blasted and acid-etched screw implants (FRIALOC®, FRIADENT GmbH, Mannheim) are placed in the interforaminal area of the mentalis muscle. Immediately after implant placement, an impression is made for the fabrication of a mesio-bar superstructure. The implants are loaded as early as one day after surgery with an implant-retained overdenture. It will be demonstrated that osseointegration can be achieved with a high level of predictability if the technique is properly applied. The approach of bar-prosthetic immediate loading will be presented and discussed on the basis of clinical and statistical data. The surgical and prosthetic management of mandibular implant-supported overdenture cases may be greatly simplified with the use of this technique in a selected group of patients. Dental rehabilitation time is shortened with relevant satisfaction for patients and improved function immediately after implant placement.

Requirements on bone volume

Dense bone: enlargement of receptor side
Light bone: crestal reduction

Conclusion:
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- Cost & time effective treatment
- Minimal surgery
- High patient acceptance
- Proven protocol

Literature:
2. Ledermann PD: More than 20 years of experience. Article in German.
4. Ledermann PD: The immediate implant prosthesis rehabilitation on the edentulous mandible. Article in German.

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