

on the abutments using a resin luting cement. A ligualized balanced occlusion was established. This prosthesis has not experienced any screw loosening or cement wash-out for 1 year. This system may have following advantages : 1) minimize stress on the implants, 2) reduce screw loosening or fracture, 3) eliminate section and soldering procedure for 'passive fit', and 4) can be retrievable.

OV-3

Cement-retained vs Screw-retained Implant Prostheses: Clinical Experience

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In restoring edentulous patients with implants, one must face a difficult choice between screw-retained prostheses and cement-retained prostheses.

3-D FEM was used to analyze stress under vertical, horizontal and oblique loads in CeraOne, CerAdapt and UCLA abutments used frequently to restore single missing teeth.

Overall, cement-retained prostheses showed lower stress values and more favorable stress distribution.

In the screw-retained prostheses, chosen by many dentists, screw loosening is a disadvantage offset by its retrievability.

In addition to favorable stress distributions, there is a no screw holes in cement-retained prostheses, allowing for wider intact occlusal surfaces leading to higher masticatory efficiency.

This is a comparison of the two types of prostheses tried in clinical cases.

OV-4

Single Implant Replacement

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When we meet single-tooth missing cases, we can consider several kinds of treatment options, a fixed 3-unit bridge, a single implant replacement, a maryland bridge-type of restoration, or an all-ceramic bonded bridge.

Among them, single implant replacement gives some advantages.

Especially, in cases of either single or multiple diastemas, adjacent teeth have a poor crown and root ratio, or adjacent teeth are sound and the patient does not want to touch neighboring teeth.....

But implants must meet the same esthetic goals as natural teeth or conventional restorations.

The most crucial esthetic element in all restorations is the soft tissue profile, which is defined as the prosthetic recipient site from which restoration emerges.

In some instances, an orthodontic measure may be needed to synergistically combine tooth movement with periodontal plastic surgical techniques, guided bone regeneration, or osseous grafts, to effectively establish the foundation for functional and esthetic implant restorations.

I'll present the below contents.

① Ridge preservation technique for esthetic implantation.