

Implant Prostheses Using Guided Surgery in Fully Edentulous Patients

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The traditional method of prosthetic restoration for completely edentulous patients has been to fabricate complete dentures. However, obtaining all the retention, stability and support from soft tissue without the help of teeth has been a daunting challenge for all dentists.

As the concept of osseointegration accidentally discovered by Professor Branemark in 1952 was applied clinically, prosthetic restoration methods for edentulous patients using implants have diversified and are still developing. In particular, implant prosthetic restoration for edentulous patients using guided surgery is a stable and effective method that can shorten the operation time, reduce the incidence of complications, and improve patient satisfaction.

Guide surgery is a method of overlapping intraoral surface data and dental CT images in a process called merging using a computer program, creating an accurate surgical plan, designing the implant in an ideal position, and performing surgery using a guide based on it. However, completely edentulous patients have no teeth, so there is difficulty in the merging process during the guide surgery preparation stage, and the process of arranging virtual teeth in the process of Top-down workflow is also a difficult process.

In this lecture, we would like to introduce clinical cases in which various prosthetic methods that can be applied to completely edentulous patients have been resolved through guide surgery.

In particular, we would like to explain in detail the process of preparing for guide surgery, including the merging process and the virtual tooth arrangement process, as well as the surgical and prosthetic processes, through the case of solving maxillary and mandible fully edentulous patient using fixed prosthetic restorations.

Profile

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