

PROSTHODONTICS

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Achieving the long-term success of dental implant treatment by proper management implant restorative complication.

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The long-term success of prosthetic implants is one of the goals of dental implant treatment. However, limits in the longevity of the prosthetic part of the implant such as a crown, abutment screw, abutment, or even implant fixture had been often loss of stability, loosening, or damage such as crack or fracture from several factors. Most patients come back and need the proper treatment right away to get rid of the discomfort and regain function and aesthetics. The basic knowledge of dental implant biomechanics and prosthetic implant management will be focused on in this lecture throughout decades of my implant experience and research. Biomechanics of dental implants is one of the crucial factors which dictate the quality of dental implant treatment by means of understanding the mechanics of force magnitude and direction, momentum, and design of dental implants in each component and their materials. Biological factors such as bone and soft tissue surrounding dental implants would affect mechanical factors through multi-directions of force transmission. Dental implant complications in the prosthetic part should be a major concern including etiology, precise diagnosis, proper instrument preparation, well-organized management cooperated with the team, and well-educated maintenance to patient. Moreover, digital implant solutions will be discussed to enhance excellent prosthetic implant outcomes. The collaboration between surgical and prosthetic parts should be intentionally accomplished in the same direction to achieve the long-term success of dental implants and decrease complications by means of straightforward communication, cooperative treatment planning, and well-organized operation.

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