International College of Prosthodontists
19th Biennial Scientific Session - VIRTUAL - September 22 – 25, 2021

Program Speaker – Yongsheng Zhou

Title

Practice and Research on Fully Digital Process in Prosthodontics

Abstract

Fully digital workflows for the design and manufacture of prostheses in Fixed Prosthondontics, Removable Prosthodontics, and Maxillofacial Rehabilitation were introduced in this presentation. Take the rehabilitation of maxillectomy defects as an example： Three-dimensional images from spiral computed tomography and intraoral scanning were used to generate a three-dimensional digital cast of a maxillectomy defect. The obturator prosthesis was then designed on the digital cast by combining dental computer-aided design and reverse engineering software programs. The prosthesis was subsequently milled from polyetheretherketone or three-dimensional-printed from polylactic acid. The prostheses achieve good fit during the try-in. Through these clinical trials, fully digital workflows were established for esthetic restoration of anterior teeth, removable partial denture, single tooth implantation of posterior tooth, and so on.

Biography

Dr. Yongsheng Zhou, Professor and President of Peking University (PKU) School of Stomatology. He also serves as the chairman of Department of Prosthodontics. He achieved his DDS degree in 1994 and PhD in 1998 from PKU school of Stomatology. He accepted postdoctoral training in University of North Carolina Dental Research Center for one year. He is the standing committee member of Chinese Stomatological Society, the former president of Chinese Society for Oral Maxillofacial Rehabilitation, vice-president of Chinese Prosthodontic Society, Councilor of Asian Academy of Prosthodontics, Fellow of International College of Dentist (ICD), Fellow of International Team for Implantology (ITI), Co-chair of ITI Scholarship Center-Beijing, President of Beijing Society for Oral Esthetics, president-elect of Beijing Prosthodontic Society, etc. He is also an editor or Editor-in-Chief for 12 academic journals in stomatology or dentistry. His Research focuses on the usage of bone tissue engineering based on adult stem cells to restore oral bone loss, material surface modification for improving osteogenesis, and digital technology, etc.