NUSFOD CPE Event: Evening Lecture for dental officers, hospital and academic staff

CHANGE IN PROSTHETIC TREATMENT WORKFLOW: WITH OR WITHOUT DENTAL MODEL
Speaker: Professor Kazuyoshi Baba, DDS, PhD

Synopsis:

One of the most significant changes in dentistry taking place this century is the introduction of digital technology into dental practice, which is called “Digital Dentistry”. CAD/CAM restorations made from composite resin blocks have already been covered by the national health insurance in Japan and software-based 3D implant placement planning has become indispensable for daily prosthetic treatments.

Recently, the direct oral scanning technology has expanded the popularity in the market because the digital impression decisively simplified the clinical workflow by making it easier and visible for both patients and dentists. Especially, the images of prepared teeth captured by the intra-oral scanner can be immediately feedback to the clinician, which allows evaluation of preparation taper, height and marginal designs. Besides, this technique does not use impression materials nor stone models. If clinicians select high-translucent monolithic zirconia, which has excellent mechanical and aesthetic properties and will not require layering of porcelain, dental models will no longer be necessary. Regarding the workflow of dental implant treatments, the STL data of intra-oral image captured by oral scanner can be merged with the DICOM data by CT scanning for better simulation of prosthodontic-driven implant placements. Using these data, surgical guide templates can be designed on the software and fabricated by 3D printer. After the guided surgery, implant supra-structure can be fabricated digitally. Again, all of these procedures do not require dental model fabrication.

The lecture will introduce the advancements of implant and prosthodontic digital workflows without dental models as well as related newly developed materials, and their merits and impact on prosthetic dentistry and future prospects of digital dentistry will be discussed.

CPE Evening Lecture (CPE Point: 1)

DATE: 5th November 2019
TIME: 6:15pm – 7:15pm
VENUE: Level 9 Auditorium (NUCOH)
CHAIR PERSON: Dr Tan Hee Hon

Admission is free!!

Please register your attendance by email denaaa@nus.edu.sg (Ms Azlia Aziz): indicating your name, DCR number and contact number before 25 October 2019. Please note that registration is based on first-come-first-serve basis and limited seats are available. For enquiries – please call Ms Azlia Aziz at Tel: 67725258.
Who is the Speaker?

Professor Kazuyoshi Baba  
DDS, PhD  
Chair and Professor  
Department of Prosthodontics  
School of Dentistry  
Showa University (Tokyo, JAPAN)

Prof. Kazuyoshi Baba graduated from Tokyo Medical and Dental University in 1986 and completed his PhD in 1991. Prof. Baba is currently Chair and Professor of the department of Prosthodontics at Showa University and Director of the Dental Hospital. Prof. Baba is a widely recognized researcher in the field of Prosthodontic treatment outcome assessments; sleep bruxism, and digital dentistry, who has published more than 100 papers in peer-reviewed journals in English. Prof. Baba and the researchers in his department received more than 20 awards from national and international scientific societies. Prof. Baba is the immediate past Editor in Chief of Journal of Prosthodontic Research (impact factor 3.306).

Educational & Professional Background
- 1986: Tokyo Medical and Dental University, D.D.S.
- 1991: Tokyo Medical and Dental University, Graduate School, Ph.D.
- 1993-2007: Assistant Professor, Tokyo Medical and Dental University, Graduate School
- 1996-1997: Visiting Scholar, University of California, Los Angeles, School of Dentistry
- 2007-present: Professor, Showa University, School of Dentistry, Department of Prosthodontics
- 2013-2019: Vice Director, Showa University Dental Hospital
- 2019-present: Director, Showa University Dental Hospital

Professional Organizations (Membership)
- ICP, IADR, AO, EAO, Society of Oral Physiology, Japan Prosthodontic Society

Publications

Grants
1. Grant-in-Aid for Scientific Research (B), JSPS Grant No. 17H04395, Elucidation of pathogenic mechanism of sleep bruxism by pathophysiological analysis of iPS cells using high-throughput technology. 2017-2020. (PI)
3. Grant-in-Aid for Scientific Research (B), JSPS Grant No. 26293415. Investigation of pathogenic mechanism of sleep bruxism using induced pluripotent stem (iPS) cell and search for a therapeutic agent. 2014-2017. (PI)