

BioSketch
Keson TAN Beng Choon

Present Appointment: Associate Professor
Director Graduate Prosthodontics

Contact Information:

Discipline of Prosthodontics, Operative Dentistry & Endodontics
Faculty of Dentistry
National University of Singapore
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Research Areas: Dental Implant Biomechanics, 3-Dimensional Distortion Analysis, Clinical Longevity/Failure of Prostheses.

Teaching Areas: Fixed Prosthodontics, Occlusion, Implant Prosthodontics

Academic / Professional Qualifications:

- BDS Honours (1985), National University of Singapore
- Cert. Prosthodont. (1992), University of Washington, Seattle, USA
- MSD (1992), University of Washington, Seattle, USA
- FAMS (1996), Academy of Medicine, Singapore
- FDS RCS (2001), Royal College of Surgeons of Edinburgh, UK

Career History:

- Dental Officer, Singapore Armed Forces (1985-87), Ministry of Health (1987-88)
- Registrar (1992-95), Senior Registrar (1995-98), Consultant (1998-2003) Senior Consultant (2003-Present), NUHS
- Senior Tutor (1988-92); Lecturer (1992-1996); Senior Lecturer (1997-98); Assistant Professor (1998-2000), Associate Professor (2000-Present), NUS

Awards/Honours:

- Republic of Singapore President's Scholarship 1981
- NUS Overseas Graduate Scholarship (1989 -1992)
- IADR SEA Division 1999 Implantology Research Award
- The Public Administration Medal (Silver) 2009
- The Public Service Medal 2009
- William R Laney Award 2010, Academy of Osseointegration, USA
- Singapore Dental Association Roll of Honour 2010
- Long Service Medal 2016
- NMEA National Outstanding Clinician Mentor Award 2020

Administrative Leadership:

- Dean, Faculty of Dentistry (2001-2009); Sub-Dean (1999-2000)
- Director, Graduate Prosthodontics, MDS Residency Training Program, Division of Graduate Dental Studies (2001–Present)
- Chair University Dental Cluster, National University Health System (NUHS) (2008 - 2009); Clinical Director, Dental Services, National University Hospital (NUH) (2001-2008);

Professional/Consulting Activities:

- President, Southeast Asian Division International Association for Dental Research (2001-2003); Immediate Past-President (2003-2005)
- President, Prosthodontic Society (Singapore) (1996-98)
- Vice-Chairman, Chapter of Dental Surgeons, Academy of Medicine, Singapore (1999-2001)
- Visiting Consultant, Singapore Armed Forces (SAF) Medical Corps, (2001– Present)
- Singapore Dental Council (2003-2009)
- Dental Specialist Advisory Board (DSAB), Ministry of Health, Singapore (2008-Present)

Selected Publications (maximum of 6):

1. Tan KB, Rubenstein JE, Nicholls JI and Yuodelis RA. Three-Dimensional Analysis of the Casting Accuracy of One-Piece Osseointegrated Implant-Retained Prostheses. *Int J Prosthodont* 1993; 6:346-363.
2. Geng J-P, Tan KBC, and Liu G-R. Application of Finite Element Analysis (FEA) in Implant Dentistry: A Review of the Literature. *J Prosthet Dent* 2001; 85: 585-98.
3. Tan MY, Yee SHX, Wong KM, Tan YH, Tan KBC. Comparison of Three-Dimensional Accuracy of Digital and Conventional Implant Impressions: Effect of Inter-Implant Distance in an Edentulous Arch. *Int J Oral Maxillofac Implants* 2019; 34:366–380. doi: 10.11607/jomi.6855.
4. Quek HC, Tan KBC, and Nicholls JI.. Load Fatigue Performance of Four Implant-Abutment Interface Designs: Effect of Torque Level and Implant System. *Int J Oral Maxillofac Implants* 2008; 23:253-262.
5. Nguyen QH, Tan KBC, and Nicholls JI.. Load Fatigue Performance of Four Implant – Ceramic Abutment Combinations. *Int J Oral Maxillofac Implants* 2009;24:636–646.
6. Seetoh YL, Tan KBC, Chua EK, Quek HC and Nicholls JI. Load Fatigue performance of Metal and Zirconia Conical Implant-Abutment Connections. *Int J Oral Maxillofac Implants* 2011; 26:797-806.

Publications in past 5 years:

1. Tan ZHJ, Tan MY, SeeToh YL, Wong KY, Tan KB. Three-dimensional positional accuracy of intraoral and laboratory implant scan bodies. *J Prosthet Dent*. doi: 10.1016/j.prosdent.2020.09.057
2. Maria R, Tan MY, Wong KM, Lee BCH, Chia VA, Tan KB. Accuracy of Implant Analogs in 3D Printed Resin Models. *J Prosthodont* 2021; 30:57-64. doi.org/10.1111/jopr.13217.
3. Wong JL, Tan KB, Teoh KH, Sim CPC. - Spectrophotometric and Visual Evaluation of Maxillary Anterior Implant Crowns and Peri-Implant Soft Tissues: A Retrospective Study. *Int J Prosthodont* 2020; 33:277-284. doi: 10.11607/ijp.6526.
4. Phang ZY, Quek SHQ, Teoh KH, Tan KB, Tan K. A Retrospective Study on the Success, Survival and Incidence of Complications of Post-Retained Restorations in Premolars Supporting Fixed Dental Prostheses (FDPs) with a Mean of 7 Years in Function. *Int J Prosthodont* 2020; 33:176-183. doi: 10.11607/ijp.6090.
5. Tan SY, Yu VSH, Lim KC, Tan KBC, Neo JCL, Shen L, Messer HH. Long-term Pulpal and Restorative Outcomes of Pulpotomy in Mature Permanent Teeth. *J Endod* 2020; 46:383-390. doi 10.1016/j.joen.2019.11.009.
6. Tan MY, Yee SHX, Wong KM, Tan YH, Tan KBC. Comparison of Three-Dimensional Accuracy of Digital and Conventional Implant Impressions: Effect of Inter-Implant Distance in an Edentulous Arch. *Int J Oral Maxillofac Implants* 2019; 34:366–380. doi: 10.11607/jomi.6855.
7. Tay KJ, Yap AUJ, Chiew JMW, Tan KBC, Allen PFA. Associations between Symptoms of Temporomandibular Disorders, Quality of Life and Psychological States in Asian Military Personnel. *J Oral Rehabil*. 2018;00:1–10. doi: 10.1111/joor.12751.
8. Tan MWY, Yap AUJ, Chua AP, Wong JCM, Parot MVJ, Tan KBC. Prevalence of Sleep Bruxism and its association with Obstructive Sleep Apnea in adult OSA patients: A retrospective polysomnographic investigation. *J Oral Facial Pain Headache* 2018 doi: 10.11607/ofph.2068.
9. Quek HQS, Yap AUJ, Rosa V, Tan KBC, Teoh KH. Effect of Staining Beverages on Color and Translucency of CAD/CAM Composites. *J Esthet Restor Dent*. 2018; 30:E9-E17.
10. Yee SHX, Esguerra RJ, Chew AAQA, Wong KM, Tan KBC. Three-Dimensional Static Articulation Accuracy of Virtual Models - Part II: Effect of Model Scanner-CAD Systems and Articulation Method. *J Prosthodont* 2018; 27:137-144.
11. Yee SHX, Esguerra RJ, Chew AAQA, Wong KM, Tan KBC. Three-Dimensional Static Articulation Accuracy of Virtual Models - Part I: System Trueness and Precision. *J Prosthodont* 2018; 27:129-136.
12. Wong KY, Esguerra RJ, Chia VAP, Tan YH, Tan KBC. Three-Dimensional Accuracy of Digital Static Interocclusal Registration by Three Intraoral Scanner Systems. *J Prosthodont* 2018; 27:120-128.
13. Chia VA, Esguerra RJ, Teoh KH, Wong KM, Teo JW, Tan KBC. In-vitro 3-D Accuracy of Digital Implant Impressions –Effect of Implant Angulation. *Int J Oral Maxillofac Implants* 2017; 32:313–321.
14. Chew AA, Esguerra RJ, Teoh KH, Wong KM, Ng SDH, Tan KBC. 3-D Accuracy of Digital Implant Impressions – Effect of Different Scanners and Fixture Levels. *Int J Oral Maxillofac Implants* 2017; 32:70-80.