

***Faculty of Dentistry***  
***Division of Graduate Dental Studies***



Faculty of Dentistry

The background of the page is a photograph of a modern, multi-story building with a glass and metal facade. The building has 'National University Centre for Oral Health' written on the left side and 'Dentistry' in orange on the right side. The building is surrounded by lush green trees and a clear sky.

**PROSTHODONTIC**  
**Residency Training**  
**Programme**  
**leading to the degree of**  
**Master of Dental Surgery**

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# ***contents***

- 1 Teaching Staff**
- 2 Introduction**
- 3 Course Contents**
- 4 Equipment Requirements**
- 5 Examinations**
- 6 Course Outline**

# 1 **TEACHING STAFF**

**PROGRAMME DIRECTOR:**        **Assoc Professor Keson Tan Beng Choon**  
*Senior Consultant, Faculty of Dentistry, National University of Singapore*

**PROGRAMME ASSOCIATE:**    **Clinical Associate Professor Teoh Khim Hean**  
**DIRECTOR**                    *Senior Consultant, Department of Restorative Dentistry, National Dental Centre, Singapore*

## **FACULTY OF DENTISTRY**

Associate Professor Keson Tan Beng Choon  
*BDS Hons (Sing), Cert Prosthodont (Washington), MSD (Washington), FDSRCS (Edin), FAMS*

Emeritus Professor Chew Chong Lin  
*BDS (Sing), MDS (Sing), Cert Prosthodont (Indiana), MSD (Indiana), FDSRCS (Edin), FAMS, PhD*

Associate Professor Keng Siong Beng  
*BDS (Sing), MDS (Sing), MSc (Lond), FFDSRCS (Ireland), FAMS*

Dr Tan Hee Hon  
*BDS (Sing), MDS (Prosthodontics) (Sing), FAMS*

Dr Frank Lee Kong Fei  
*BDS (Sing), MDS (Prosthodontics) (Sing), MRD RCS (Edin)*

Dr Christopher Quek Eng Yew  
*BDS (Sing), MDS (Prosthodontics) (Sing), MRD RCS (Edin)*

Adjunct Associate Professor Ansgar Cheng  
*BDS (Hong Kong), Cert Prosthodont (N'Western), MDS Protho (N'Western), FRACDS, FRCR (Canada), FAMS*

Adjunct Associate Professor Loh Poey Ling  
*BDS (Sing), Cert Prosthodont (Indiana), MSD (Indiana), FAMS*

Adjunct Senior Lecturer Wong Keng Mun  
*BDS (Sing), Cert Prosthodont (Washington), MSD (Washington)*

Adjunct Lecturer Dr Tan Kian Meng  
*BDS (Sing), Cert Prosthodont (Maryland), MS (Maryland)*

## **NATIONAL DENTAL CENTRE**

Clinical Associate Professor Teoh Khim Hean  
*BDS (Sing), MDS (Prosthodontics) (Sing), FRACDS, FAMS*

Clinical Associate Professor Christina Sim  
*BDS (Sing), MSc (Lond), FAMS*

Clinical Associate Professor Ken Tan  
*BDS (Sing), MSc (Lond), FAMS*

Clinical Senior Lecturer Dr Quek Heng Chuan  
*BDS (Sing), MDS (Prosthodontics) (Sing), MRD RCS (Edin)*

Clinical Senior Lecturer Dr See Toh Yoong Liang  
*BDS (Sing), MDS (Prosthodontics) (Sing), MRD RCS (Edin)*

Clinical Teacher Chia Ai Ping Vanessa  
*BDS (Sing), MDS (Sing)*

Clinical Teacher Amelia Anya Chew Qin'An  
*BDS (Sing), MDS (Sing)*

## **COMMITTEE FOR PROSTHODONTICS**

Associate Professor Keson Tan Beng Choon (Chair)  
Clinical Associate Professor Teoh Khim Hean  
Adjunct Associate Professor Loh Poey Ling  
Dr Lee Kong Fei, Frank  
Dr Quek Heng Chuan

## **2 INTRODUCTION**

The residency programme in Prosthodontics is a three-year course covering all aspects of Prosthodontics and leading to the degree of Master of Dental Surgery in Prosthodontics. Residents enrolled in this programme will be trained at the Faculty of Dentistry, National University of Singapore and the National Dental Centre.

### **OBJECTIVES**

At the end of the residency training, a resident will -

- 1 have had basic sciences education as a foundation for clinical and technical skills;
- 2 be proficient in diagnosis, planning and treatment of patients with exceptional prosthodontic problems;
- 3 be proficient in laboratory technical skills sufficient to evaluate technical work, communicate effectively with technicians and be able to train others in these skills;
- 4 be effectively interfaced with other specialties and disciplines in the care of patients requiring interdisciplinary therapy; and
- 5 be able to conduct independent research.

## **3 COURSE CONTENTS**

The resident will attend a course in basic medical sciences, advanced fixed partial denture prosthodontics, removable partial and complete denture prosthodontics, maxillo-facial prosthodontics and implant prosthodontics. The course will include clinical and laboratory training and research. There are also core modules taken with other programmes.

### **1 Core Modules Requirements**

The resident will be required to attend core modules that include Clinical Dental Photography, Basic Course in Implantology as well as Biostatistics and Research Methodology. For foreign students, the e-module "*SSM1205 The Nation's Health: Lesson from SARS*" is a requirement.

### **2 Basic Medical Sciences Module**

This module will cover the areas of applied basic medical sciences including applied anatomy of the head and neck, detailed knowledge of the oral dental structures, applied physiology, biochemistry, cell and molecular biology as well as an understanding of pathology (including oral pathology), immunology and microbiology. Greater emphasis will be placed on areas related to Prosthodontics. Candidates who have previously passed the MDS Part 1 or FRACDS Part 1 are exempted from this module and attendance is optional for them.

### **3 Didactic Course in Prosthodontics**

This will cover the areas of applied basic sciences relevant to prosthodontics, advanced fixed and removable partial and complete denture prosthodontics, theories of occlusion, dental materials science, maxillo-facial prosthodontics and dental implants. Lectures on other disciplines, which are related to prosthodontics such as dental radiology, endodontics, oral maxillo-facial surgery, orthodontics and periodontics, will also be given. There will be also be literature review sessions on various aspects of Prosthodontics and related subjects.

### **4 Laboratory Training**

The resident will be taught advanced fixed and removable prosthodontic techniques. This course is conducted to complement the clinical training.

### **5 Clinical Training**

The resident will be trained to diagnose and treat patients with complex prosthodontic problems and learn to manage patients who require full mouth rehabilitation using fixed and removable prostheses and implant supported prostheses with an emphasis on cases requiring interdisciplinary care and coordination. He will also be exposed to the management of patients needing maxillo-facial prostheses. The number and type of cases treated will be recorded.

### **6 Research**

The resident is required to complete a research project and defend this thesis as partial fulfilment of the MDS degree in Prosthodontics. Research protocols are to be submitted by the end of year one. Candidates are encouraged to write up projects for publication in refereed journals.

### **7 Teaching**

During the second and third year, candidates will be involved in the teaching of undergraduates in the area of prosthodontics as part of their training.

### **8 Venues for Training**

During the three-year training programme, candidates will be trained at two institutions.

- a Faculty of Dentistry, National University of Singapore
- b National Dental Centre, Singapore

## ***4 EQUIPMENT REQUIREMENTS***

Every candidate is required to own a camera set-up with associated accessories for extra and intra-oral photography.

In addition, it is a requirement for all residents to possess a notebook for access to the Digital Electronic Patient Record charting system at NUHS as well as the digital learning resources of the university.

## **5 EXAMINATIONS**

### **ASSESSMENT**

Residents will be assessed annually through:

- 1 written tests
- 2 progress in their clinical performance by their supervisors

A candidate will only be allowed to proceed to the next academic year subject to favourable performances as assessed by the Committee.

### **FINAL MDS EXAMINATION**

The Final MDS examination will be conducted in May/June at the end of the three-year programme. Residents will only be permitted to sit for the examination after having met the requirements set by the Committee.

The examination will comprise:-

- 1 2 written papers;
- 2 a clinical examination;
- 3 presentation of a completed case;
- 4 oral examination; and
- 5 defence of thesis

### **AWARD OF MDS (PROSTHODONTICS)**

The degree of Master of Dental Surgery in Prosthodontics\* will be awarded to the candidate on -

- 1 passing Final MDS examination; and
- 2 successful defence of thesis.

*\* This Final MDS Examination is conjoint with the Membership in Prosthodontics of the Royal College of Edinburgh ( MPros RCS Edin ) until AY 2019/2020.*



# 6 COURSE OUTLINE

## YEAR 1

### TERM 1 July - September

- 1 Advanced Prosthodontic Technique
- 2 Seminars – Occlusion
- 3 Practical course on Occlusion
- 4 Literature Review - Occlusion
- 5 Course in Intra-oral Photography
- 6 Basic Course in Dental Implantology (Sats)
- 7 Seminar – Perio-Restorative topics related to Prosthodontics
- 8 Basic Medical Sciences

### TERM 2 October - December

- 1 Clinical Prosthodontics
- 2 Seminar – Occlusion
- 3 Seminar – Cranio-Mandibular Disorders
- 4 Advanced Prosthodontic Seminars
- 5 Literature Review – Occlusion & CMD
- 6 Biostatistics & GRMM modules
- 7 Basic Course in Dental Implantology (Sats)

### TERM 3 January - April

- 1 Clinical Prosthodontics
- 2 Literature Review – Fixed & Removable
- 3 Seminar – Maxillofacial Prosthodontics
- 4 Seminar – Ortho/Radiology topics related to Prosthodontics

### TERM 4 May - June

- 1 Clinical Prosthodontics
- 2 Literature Review – Fixed & Removable
- 3 Seminar – Endodontic topics related to Prosthodontics
- 4 Annual assessment (2<sup>nd</sup> last week)

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## YEAR 2

### TERM 1 & 2

- 1 Literature Review – Fixed & Removable
- 2 Literature Review – Dental Implants
- 3 Clinical Prosthodontics
- 4 TMD Clinic Posting
- 5 Research

### TERM 3 & 4

- 1 Literature Review – Fixed & Removable
- 2 Literature Review – Dental Implants
- 3 Clinical Prosthodontics
- 4 TMD Clinic Posting
- 5 Undergraduate Teaching Assignment
- 6 Research
- 7 Annual assessment

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## YEAR 3

### TERM 1 & 2

- 1 Clinical Prosthodontics
- 2 Position Paper
- 3 Undergraduate Teaching Assignment
- 4 Research

### Term 3 & 4

- 1 Clinical Prosthodontics
- 2 Research Thesis Defence
- 3 Final MDS (Prosthodontics) Examination