Faculty of Dentistry Division of Graduate Dental Studies



Faculty of Dentistry



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1 TEACHING STAFF

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

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

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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, both conventional, and increasingly, digital workflows. 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 an Oral Examination

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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 research thesis.

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 7 Basic Course in Dental Implantology (Sats) Prosthodontics
- 8 Basic Medical Sciences

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 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

TERM 4 May - June

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

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

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