



Guidelines For Clinical Attachment in Oral Pathology and Oral Medicine Specialty for Dental Officers in The Ministry of Health Malaysia

Program Kesihatan Pergigian
Kementerian kesihatan Malaysia
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GUIDELINES FOR CLINICAL ATTACHMENT IN ORAL PATHOLOGY AND ORAL MEDICINE SPECIALTY FOR DENTAL OFFICERS IN THE MINISTRY OF HEALTH MALAYSIA

1. INTRODUCTION

Oral Pathology and Oral Medicine (OPOM) specialty is one of the specialist dental services in the public sector and categorized under the Hospital-Based specializations. OPOM specialty deals with clinical and microscopic diagnosis and management of diseases affecting the oral and maxillofacial region. It comprised of two components, Oral Pathology and Oral Medicine. Oral pathology deals with laboratory processing, histopathological examination and reporting of the specimens from oral and maxillofacial region. Oral Medicine is the clinical component deals with non-surgical management of orofacial diseases.

Clinical attachment is a standard placement and a useful way for dental officers to gain working experience in Oral Pathology and Oral Medicine (OPOM) Specialty in the Ministry of Health Malaysia (MOH). Dental officers will have a better understanding of OPOM Specialty as there is only minimal exposure during undergraduate training regarding the nature of OPOM Specialist work especially in the Ministry of Health (MOH) setup. This clinical attachment will provide exposure and to prepare dental officer who wish to pursue postgraduate study in OPOM Specialty. The experience gained would ensure that the dental officer fulfil the standards required to be an OPOM trainee. The dental officers also will be able to decide whether the OPOM Specialty is truly their passion and choice of specialty in their future undertaking.

Disclaimer: Please note this clinical attachment does not automatically secure a scholarship or a place in the university for OPOM postgraduate training.

Dental officer (DO) undergoing clinical attachment will be known as **Attachment Dental Officer (ADO)**. There are 2 types of clinical attachment in the Oral Pathology and Oral Medicine (OPOM) Specialty at the Ministry of Health Malaysia (MOH) facilities:

- 1) **Full time** clinical attachment (preferably)
- 2) **Part – time** clinical attachment

Table 1: Comparison of Attachment Dental Officer at OPOM Unit	
Full Time Attachment	Part-Time Attachment
<ul style="list-style-type: none"> • DO working at OPOM Unit 	<ul style="list-style-type: none"> • DO working at the primer clinic / other specialty clinic
<ul style="list-style-type: none"> • Duration: Maximum 2 years after which the attachment will be reviewed. • Each attachment period will be reviewed annually. • Note: Consideration may be given to extend the attachment if there is a requirement on case by case basis. 	<ul style="list-style-type: none"> • Duration: Minimum 120 days. Vary, depends on the written approval & permission granted by TPKN(G) & SDO. • Each attachment period will be reviewed annually
<ul style="list-style-type: none"> • Full time basis 	<ul style="list-style-type: none"> • Part-time basis
<ul style="list-style-type: none"> • Depending on availability of post • Note: Part – time ADO may be recommended to become a permanent ADO once there is an available post. 	<ul style="list-style-type: none"> • Priority – duty at the primer clinic or other specialty clinic
<ul style="list-style-type: none"> • Better exposure and improved understanding of the requirements of the specialty. • Full time attachment maybe a value-added criteria to secure a place at the university 	<ul style="list-style-type: none"> • Limited time and exposure

2. OBJECTIVES

2.1 General Objectives

To ensure a standardize clinical attachment exposure and proper records of attachment is maintained during the clinical attachment in Oral Pathology and Oral Medicine (OPOM) specialty.

2.2 Specific Objectives

A. For dental officer:

- i. To have a better understanding of OPOM Specialty as there is only minimal exposure during undergraduate training regarding the nature of OPOM Specialist work especially in the Ministry of Health (MOH) setup.
- ii. To ensure a standardize OPOM exposure and to ensure proper records of attachment is maintained.
- iii. To help the dental officer to decide whether OPOM Specialty is truly their passion and choice of specialty for their future undertaking
- iv. To expose the basic knowledge of OPOM specialty to dental officer
- v. To help the dental officer to prepare the requirement needed before applying for the master program place and scholarship

B. For OPOM specialist (supervisor):

- i. To promote OPOM Specialty and nature of OPOM Specialty work in the Ministry of Health (MOH) setup.
- ii. To establish a structured framework to assist the OPOM specialist especially junior specialists in conducting clinical attachment program.
- iii. Having a proper clinical attachment program ensures standard exposure to all ADO. It also provides an avenue for the dental specialist to assess the suitability of the officers for further training in OPOM Specialty within daily clinical settings.

3. COMPONENTS IN CLINICAL ATTACHMENT PROGRAM

Clinical attachment programme in Oral Pathology and Oral Medicine (OPOM) Specialty comprise of 2 components and need to be well documented in the standardised-logbook format.

- i. **Part 1: Core Clinical Competencies**
Composed of **Oral Pathology Component** and **Oral Medicine Component**
- ii. **Part 2: Professional Development**
Composed of **Research Component** and **CPD Activities Component**

Table 2: Components in the Clinical Attachment Program				
No.	Part 1: Core Clinical Competencies		Part 2: Professional Development	
	Oral Pathology (Histopathology laboratory-Diagnostic component)	Oral Medicine (Oral medicine clinic-Clinical component)	Research	CPD Activities
1	i. Grossing: Observe / Assist / Perform ii. Drafting (HPE & Archive): Draft & Discussion with Specialist	i. New patient clerking (New Case): Perform & Discussion with Specialist ii. Management of review cases: Observe / Assist / Perform	Involve in research process i.e. proposal write up etc.	Involve in CPD activities (attend & present) i.e. CDE, seminar, course etc.
2	Minimum requirement: i. Grossing (simple / medium specimen): 20 Note: complex specimen(optional) ii. Drafting (HPE & Archive): 20	Minimum requirement: i. Patient Clerking (New Case): 20 ii. Management of review cases: 20 Note: procedure i.e. simple biopsy procedure / smear (optional)	Minimum requirement: At least involve in 1 research process Note: Case report (optional)	Minimum requirement: At least involve in 1 CPD activity per year

Table 2: Components in the Clinical Attachment Program				
No.	Part 1: Core Clinical Competencies		Part 2: Professional Development	
	Oral Pathology (Histopathology laboratory-Diagnostic component)	Oral Medicine (Oral medicine clinic-Clinical component)	Research	CPD Activities
3	Requirement: Need to be well documented in the standardised logbook format.	Requirement: Need to be well documented in the standardised logbook format.	Requirement: Need to be well documented in the standardised logbook format.	Requirement: Need to be well documented in the standardised logbook format.

4. LIST OF MINISTRY OF HEALTH FACILITIES WITH OPOM SPECIALITY

Table 3: List of Ministry of Health Facilities with OPOM Speciality				
No	State	Hospital	OPOM Specialists	Contact No
1	Kedah	Hosp. Sultan Abd Halim, Sg Petani	i. Dr. Sumairi bin Ismail ii. Dr. Nor Atikah binti Awg Hashim	Unit Patologi Mulut & Perubatan Mulut, Hosp. Sultan Abd Halim, 08000 Sg Petani, Kedah Tel : 04-4457333/Ext: 3500
2	Pulau Pinang	Hosp Seberang Jaya, Seberang Jaya	i. Dr. Zarina binti A.Karim	Unit Patologi Mulut & Perubatan Mulut, Hosp Seberang Jaya, Jalan Tun Hussein Onn, 13700 Seberang Jaya, Pulau Pinang Tel: 04- 3827114 / 215
3	Perak	Hosp. Raja Permaisuri Bainun, Ipoh	i. Dr. Khamisah binti Awang Kechik	Unit Patologi Mulut & Perubatan Mulut, Hosp. Raja Permaisuri Bainun, Jalan Hospital, 31400 Ipoh Tel: 05-2087479/5212

Table 3: List of Ministry of Health Facilities with OPOM Speciality				
No	State	Hospital	OPOM Specialists	Contact No
4	WP Kuala Lumpur	Hospital Kuala Lumpur	i. Dr. Nor Nazaliza binti Basri	Unit Patologi Mulut & Perubatan Mulut, Hosp Kuala Lumpur, Jalan Pahang, 50586 Kuala Lumpur Tel: 0126289826
5	Selangor	Hospital Serdang	i. Dr. Norul Mashirah bt Mohd Noor	Unit Patologi Mulut & Perubatan Mulut, Jabatan Bedah Mulut & Maksilofasial Hosp. Serdang, Jalan Puchong, 43000 Kajang Tel: Tel: 03-8947 5555; ext.1193
6	National Institutes of Health (NIH)	Institute for Medical Research	i. Dr. Ajura binti Abdul Jalil ii. Dr. Hans Prakash a/l Sathasivam iii. Dr. Salina binti Din	Stomatology Unit, Institute for Medical Research National Institutes of Health (NIH), Persiaran Setia Murni, Setia Alam, 40170 Shah Alam, Selangor Tel: Tel: 03-3362 8652 / 03-3362 7602
7	Johor	Hosp. Sultan Ismail, Johor Bahru	i. Dr. Nur Fazilah binti Mohd Tahir ii. Dr. Pappathy @ Sri Devi Vairavan	Unit Patologi Mulut & Perubatan Mulut, Hosp. Sultan Ismail, Jalan Persiaran Mutiara Emas Utama, Taman Mount Austin, 81100 Johor Bahru Tel: 07 3565000 ext 2038
8	Pahang	Hosp. Tengku Ampuan Afzan, Kuantan	i. Dr. Abdul Rahim bin Ahmad	Unit Patologi Mulut & Perubatan Mulut, Hosp. Tengku Ampuan Afzan, Jalan Tanah Puteh, 25100 Kuantan Tel: 095572777

Table 3: List of Ministry of Health Facilities with OPOM Speciality				
No	State	Hospital	OPOM Specialists	Contact No
9	Terengganu	Hosp. Sultanah Nur Zahirah, Kuala Terengganu	i. Dr. Nurmawarnis binti Mat Hussin	Unit Patologi Mulut & Perubatan Mulut, Hosp. Sultanah Nur Zahirah, Jalan Sultan Mahmud, 20300 Kuala Terengganu Tel: +609-6212121 ext: 3006
10	Kelantan	Hosp. Raja Perempuan Zainab II, Kota Bharu	i. Dr. Hartinie binti Muhamad	Unit Patologi Mulut & Perubatan Mulut, Hosp. Raja Perempuan Zainab II, 15586 Kota Bharu Tel: 0122310273
11	Sarawak	Hosp. Umum Sarawak, Kuching	i. Dr. Nurshaline Pauline Hj. Kipli ii. Dr. Sarvambika a/p Kazakydasan	Unit Patologi Mulut & Perubatan Mulut, Klinik Pakar Pergigian, Hosp. Umum Sarawak, Jalan Tun Ahmad Zaidi Adruce, 93586 Kuching. Tel: 082-413480
12	Sabah	Hosp. Queen Elizabeth, Kota Kinabalu	i. Dr Fairuz bin Abd Rahman ii. Dr. Lew Huai Lin	Unit Patologi Mulut & Perubatan Mulut, Hosp. Queen Elizabeth, 88586 Kota Kinabalu Tel: 088-517555 (ext: 7293)

5. MINIMUM REQUIREMENT NEEDED FOR THE CLINICAL ATTACHMENT PROGRAM

- A permanent / contract dental officer with a **minimum of 2 years** in service
- Dental officer with **Part 1 MFDS / MJDF or BMS examination** may be given priority
- Highly motivated and has deep interest in OPOM
- Good behavior and attitude especially towards work and profession
- Good personal discipline and able to work as a team
- Granted a **written approval & permission** from PPYM, SDO, and TPKN(G)

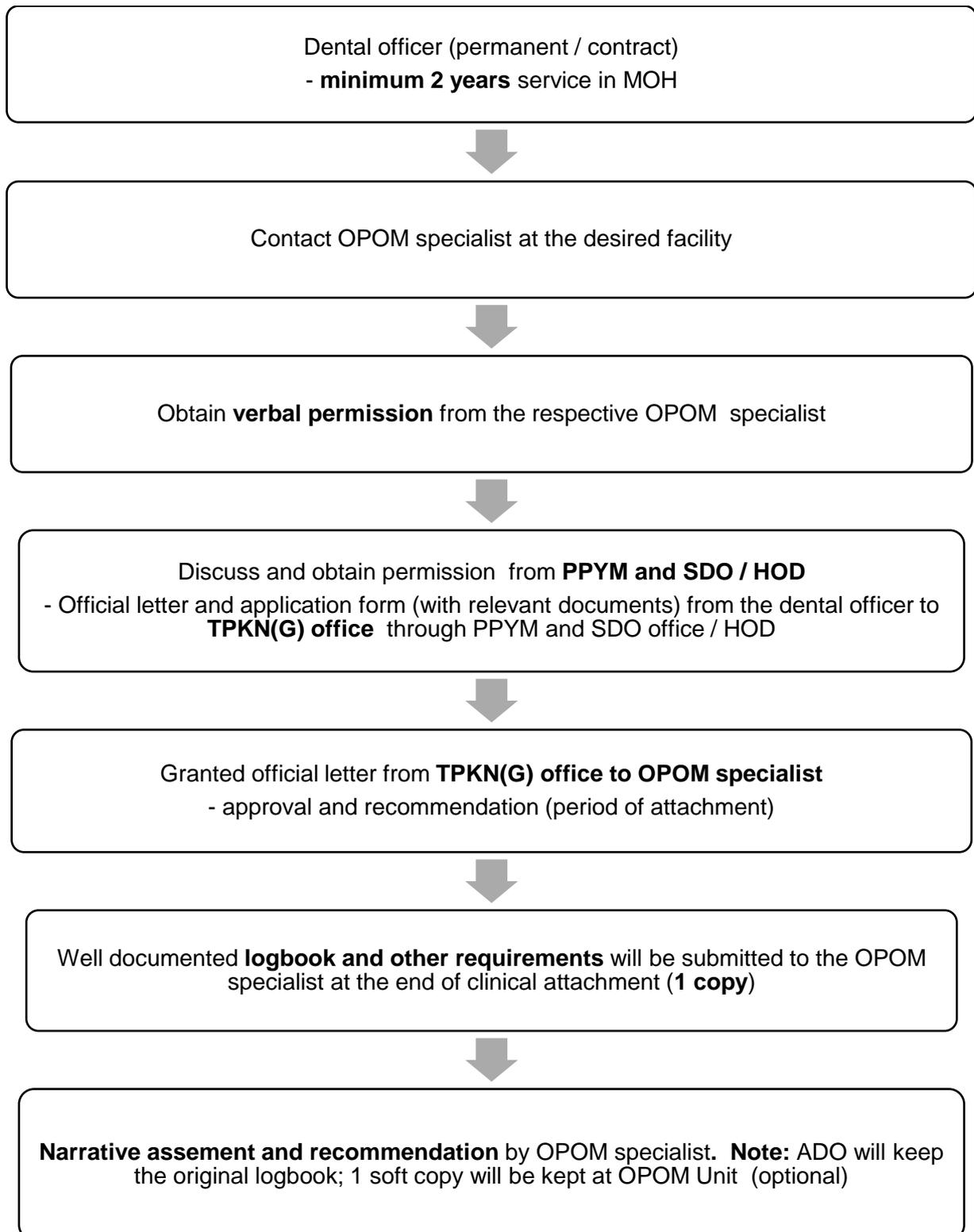
6. DURATION OF CLINICAL ATTACHMENT PROGRAM

Maximum duration for **full time** clinical attachment is **2 years, while** for **part time** clinical attachment is **minimum 120 days**. Each attachment period will be **reviewed annually**. Within the attachment period, ADO may apply for scholarship (HLP) and a place at the university. If it is deemed that the ADO still need further clinical attachment after the maximum period of attachment, the supervising specialist may recommend a further suitable period of extension. Should the **Attachment Dental Officer (ADO)** be absent from duty due to medical leave, maternity leave, or other unforeseen circumstances during the designated attachment period, extension of attachment period would be reviewed on a case by case basis.

7. MODE OF ASSESSMENT

Attachment Dental Officer (ADO) shall utilise and maintain logbook during the clinical attachment period. The ADO will be assessed according to the standardised narrative form at the end of the clinical attachment programme. The supervising specialist may recommend a further suitable period of extension if needed and feasible.

Figure 1: Clinical Attachment in OPOM Specialty: Pathway for Dental Officers in the Ministry of Health



FORMS, CHECKLIST AND LOGBOOK

APPLICATION FORM FOR CLINICAL ATTACHMENT IN ORAL PATHOLOGY AND ORAL MEDICINE SPECIALTY FOR DENTAL OFFICERS IN THE MINISTRY OF HEALTH MALAYSIA

FACILITY / STATE:

.....
(Type in Uppercase)

Attach passport size photo here

A. PERSONAL DETAILS			
Name :			
Date of first appointment :		Status : Permanent / Contract	
Date of confirmation in service:		Mykad No :	
Position :		Grade :	
Workplace address :			
Office telephone :		Fax no :	
HP no :		Email :	
B. PROFESSIONAL QUALIFICATION			
(Kindly attached a copy of the related document)			
No	Qualification (First degree/ Fellowship/ Membership/ Others i.e. MFDS, MJDF, BMS)	Institution	Year of Graduation / Obtained

C. WORKING EXPERIENCE

1. Details of work experience after undergraduate qualification:

No	Workplace	Dates	
		From	Until

D. APPLICANT DECLARATION

I admit the above details are true

Signature of applicant :

Name :

MyKad No :

Date :

E. OPOM SPECIALIST USE

Clinical attachment period of
.....
(Applicant name)
is recommended from until
..... (date)

Duration : (months / years)

Partial / Permanent attachment

For partial attachment, frequency of attachment recommended:

Every week (1x / week) Every 2 week

Every month (1x/ month) Others

Signature of OPOM Specialist :

Name :

Date :

F. TPKN(G) OFFICE USE

Clinical attachment period of
(Applicant name)

Workplace/ district:

is allowed from until (date)

Duration : (months / years)

Partial / Permanent attachment

For partial attachment, frequency of attachment allowed:

Every week (1x / week) Every 2 week

Every month (1x/ month) Others

Comments:

Signature :

Name :

Date :

CHECKLIST FOR CLINICAL ATTACHMENT IN ORAL PATHOLOGY AND ORAL MEDICINE SPECIALTY FOR DENTAL OFFICERS IN THE MINISTRY OF HEALTH MALAYSIA

Applicant name:

Workplace / District:

No	Items	√	X	Comments (for office use)
1	Application form for clinical attachment (1 copy)			
2	Copy of the related documents (1 copy) - Degree - Fellowship/ Membership/ Others)			
3	Official letter from applicant for clinical attachment (1 copy)			
4	Official permission letter for clinical attachment (1 copy) - Permission from PPYM - Permission from SDO - Permission from OPOM Specialist - Permission from TPKN(G)			
5	Tentative attachment timetable			
6	Logbook for clinical attachment (at the end of the attachment period)			
7	Narrative assessment and recommendation by the respective OPOM Specialist (at the end of the attachment period)			

NARRATIVE ASSESSMENT BY ORAL PATHOLOGY AND ORAL MEDICINE SPECIALIST (SUPERVISOR) - END OF CLINICAL ATTACHMENT

Applicant name :

Workplace / District:

Clinical attachment: from..... until(date)

Duration : (months / years)

Partial / Permanent attachment

For partial attachment, frequency of attachment:

Every week (1x / week) Every 2 week

Every month (1x/ month) Others

A. PERSONAL CHARACTERISTICS (tick (√) where appropriate)

No.	Areas of Evaluation	Excellent	Good	Satisfactory	Poor
1	Attitude to work and profession				
2	Personal discipline				
3	Communication skills				
4	Proactive, creative, innovative				
5	Ability to cope with challenges				
6	Relationship with colleagues and other staff				

B. SKILLS AND KNOWLEDGE (tick (√) where appropriate)

No.	Areas of Evaluation	Excellent	Good	Satisfactory	Poor
1	Knowledge in area of work				
2	Logbook documentation				
3	Participation in CPD activities				
4	Participation in research activities				
5	Sharing of information and knowledge				
6	Analytical skills				

C. OVERALL PERFORMANCE (tick (√) where appropriate)

No.	Areas of Evaluation	Excellent	Good	Satisfactory	Poor
1	Overall performance				

D. NOTES / OVERALL COMMENTS

Signature

.....

Name

.....

Position

.....

Official stamp :

Date :

RECORD OF CLINICAL ATTACHMENT (LOGBOOK) IN ORAL PATHOLOGY AND ORAL MEDICINE SPECIALTY FOR DENTAL OFFICERS IN THE MINISTRY OF HEALTH MALAYSIA

FACILITY / STATE :

OPOM SPECIALIST :
(SUPERVISOR)

A. PERSONAL DETAILS			
Name :			
Date of Commencement of Clinical Attachment :	Status : Permanent / Contract		
Duration :	Mykad No :		
Position :	Grade :		
Workplace address:			
Office telephone :	Fax no :		
HP no :	Email :		
B. PROFESSIONAL QUALIFICATION (Kindly attached a copy of the related document)			
No	Qualification (First degree/ Fellowship/ Membership/ Others i.e. MFDS, MJDF, BMS)	Institution	Year of Graduation / Obtained

COMPONENTS IN THE CLINICAL ATTACHMENT PROGRAMME

Clinical attachment programme in Oral Pathology and Oral Medicine (OPOM) Specialty consists of 2 components and need to be well documented in the standardised logbook format.

- i. **Part 1: Core Clinical Competencies**
Comprised of **Oral Pathology Component** and **Oral Medicine Component**
- ii. **Part 2: Professional Development**
Comprised of **Research Component** and **CPD Activities Component**

Table 1: Components in the Clinical Attachment Program				
No.	Part 1: Core Clinical Competencies		Part 2: Professional Development	
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1	iii. Grossing: Observe / Assist / Perform iv. Drafting (HPE & Archive): Draft & Discussion with Specialist	iii. New patient clerking (New Case): Perform & Discussion with Specialist iv. Management of review cases: Observe / Assist / Perform	Involve in research process i.e. proposal write up etc.	Involve in CPD activities (attend & present) i.e. CDE, seminar, course etc.
2	Minimum requirement: iii. Grossing (simple / medium specimen): 20 Note: complex specimen(optional) iv. Drafting (HPE & Archive): 20	Minimum requirement: iii. Patient Clerking (New Case): 20 iv. Management of review cases: 20 Note: procedure i.e. simple biopsy procedure / smear (optional)	Minimum requirement: At least involve in 1 research process Note: Case report (optional)	Minimum requirement: At least involve in 1 CPD activity per year

Table 1: Components in the Clinical Attachment Program

No.	Part 1: Core Clinical Competencies		Part 2: Professional Development	
	Oral Pathology (Histopathology laboratory-Diagnostic component)	Oral Medicine (Oral medicine clinic-Clinical component)	Research	CPD Activities
3	Requirement: Need to be well documented in the standardised logbook format.	Requirement: Need to be well documented in the standardised logbook format.	Requirement: Need to be well documented in the standardised logbook format.	Requirement: Need to be well documented in the standardised logbook format.

PART 1 – CLINICAL CORE COMPETENCIES

1. Oral Pathology (at histopathology laboratory- **Diagnostic component**)

a) Grossing specimen

- Observe / Assist / Perform under Specialist supervision
- **Minimum requirement:**
 - (simple / medium specimen): **20**
 - **Note:** complex specimen(optional)

No	Date	HPE No / Clinical Diagnosis	Type of specimen (Complexity)	Observe	Assist	Perform	Supervisor (signature)
				Minimum requirement: 10			
Example	2.1.2022	S211100034 Dx: Mucocele	Soft tissue (Simple)			√	

2. Abnormalities of the teeth / Pulpal & periapical diseases / periodontal diseases

No	Date	RN / HPE No	Diagnosis	Discussion/ Supervisor Assessment & Signature

3. Bacterial infections / Fungal & protozoal diseases / viral infections

No	Date	RN / HPE No	Diagnosis	Discussion/ Supervisor Assessment & Signature

4. Physical & chemical injuries / Oral manifestations of systemic diseases

No	Date	RN / HPE No	Diagnosis	Discussion/ Supervisor Assessment & Signature

5. Epithelial pathology / Dermatologic diseases / Allergies & immunologic diseases

No	Date	RN / HPE No	Diagnosis	Discussion/ Supervisor Assessment & Signature

6. Salivary gland pathology

No	Date	RN / HPE No	Diagnosis	Discussion/ Supervisor Assessment & Signature

7. Odontogenic cysts & tumors

No	Date	RN / HPE No	Diagnosis	Discussion/ Supervisor Assessment & Signature

No	Date	RN / HPE No	Diagnosis	Discussion/ Supervisor Assessment & Signature

8. Soft tissue tumor / Haematologic disorders / Bone pathology

No	Date	RN / HPE No	Diagnosis	Discussion/ Supervisor Assessment & Signature

2. Oral Medicine (at Oral Medicine Clinic)

Minimum requirement:

- **History taking / clerking new cases:** 20 (in total)
- **Management of review cases:** 20 (in total)
- Note: procedure i.e. simple biopsy procedure / smear (optional)

1. Facial pain & neuromuscular disorders

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

2. Inter – disciplinary case management

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

3. Salivary gland disorder(s)

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

4. Bacterial infections / Fungal & protozoal diseases / viral infections

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

5. Physical & chemical injuries / Oral manifestations of systemic diseases

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

6. Epithelial pathology / Dermatologic diseases / Allergies & immunologic diseases

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

7. Odontogenic cysts & tumors

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

8. Soft tissue tumor / Haematologic disorders / Bone pathology

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

9. Abnormalities of the teeth / Pulpal & periapical diseases / periodontal diseases

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

10. Developmental defects of oral & maxillofacial region / Developmental cysts / other rare developmental anomalies / others

No	Date	RN No / ID	Clinical History & Management	Diagnosis	New Case (Clerking, present & discuss with specialist)	Review (Observe / Assist / Perform)	Discussion/ Supervisor Assessment & Signature

Part 2: Professional Development	
Research	CPD Activities
1. involve in research process i.e. proposal write up etc.	2. involve in CPD activities (attend & present) i.e. CDE, seminar, course etc.
3. Minimum requirement: at least involve in 1 research process Note: Case report (optional)	4. Minimum requirement: at least involve in 1 CPD activity per year

a. RESEARCH

No	Description of research (Title, Objectives, Summary of methodology, Summary of findings (if applicable))	Research Process Involved	Date of commencement	Supervisor assessment & signature
		i.e. Proposal write up		
		NMRR registration		

b. CPD ACTIVITIES

No	Date	Description of activity	Supervisor assessment & signature
	Example	Presented CDE: Trigeminal Neuralgia during CDE session, at Hospital XYZ (Date & Time)	

ACKNOWLEDGEMENT

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Ministry of Health

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