

## Figure S1

**TITLE:**

# TEACHING OF POSTERIOR COMPOSITE RESIN RESTORATIONS IN UNDERGRADUATE DENTAL SCHOOLS IN MALAYSIA

This questionnaire is designed to determine the details of posterior restorations curriculum for undergraduate teaching in your school. Please tick in the box provided.

**Part A: SOCIAL DEMOGRAPHIC.**

Q1. Please indicate your University & Department

Name of the University and Department: \_\_\_\_\_

## Part B: TEACHING METHODS FOR POSTERIOR RESTORATIONS

Please tick in the box provided. For each statement, you can choose more than one answer.

Q1. Are formal lectures on posterior restoration topics given to students?

11

11

Q2. Other than formal lectures, other method(s) for teaching is/are:

1



10

Other: \_\_\_\_\_

Q3. Choose the teaching aids and materials that are used for teaching:

11

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11




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Other: \_\_\_\_\_

Q4. What are the type of assessments conducted to evaluate the students' knowledge on posterior restorations:






11

Other: \_\_\_\_\_

**Part C: PRECLINICAL LABORATORY TEACHING ON POSTERIOR RESTORATIONS**

Please tick in the box provided.

Q1. Do the students need to undergo preclinical teaching of posterior restorations before treating patient?

Yes

☐

No

☐

If the answer for Q1 is NO, please proceed to **Part D**.

Q2. Restorative material(s) used for preclinical teaching of posterior restorations is/are:  
You can tick more than one answer.

Amalgam

Composite resin

Glass ionomer cement (GIC)

Resin modified glass ionomer cement (RMGIC)

Other: \_\_\_\_\_


Q3. Duration of time (hours) that is allocated is:  
Please tick only **ONE (1)** answer for each restorative material.

Restorative material	4–8 hours (1-2 sessions)	12–16 hours (3-4 sessions)	20–24 hours (5-6 sessions)	More than 24 hours (more than 7 sessions)	Not taught
Amalgam					
Composite					
Glass ionomer cement					

Q4. Students are provided with instruction manual:

Yes

☐

No

☐

If the answer for Q3 is NO, please proceed to **Q6**.

Q5. Instruction manual provided to the students is generally:  
Please tick only **ONE (1)** answer.

Simple (A basic guideline for posterior restorations)

Comprehensive (Details in every procedure in posterior restorations)

Very comprehensive (Could be used in place of textbook)

Other: \_\_\_\_\_


Q6. During the preclinical session, students are using:  
Please tick only **ONE (1)** answer.

Extracted human teeth

Plastic tooth practice model

Both

Other: \_\_\_\_\_


Q7. Do the students need to pass the **practical competency test** before they start the clinical session?

a. Proximal amalgam restoration

Yes

☐

No

☐

b. Proximal composite restoration

Yes

☐

No

☐

Q8. Do the students have to complete certain **practical requirement** before they start the clinical session?

- a. Proximal amalgam restoration Yes ☐ No ☐  
b. Proximal composite restoration Yes ☐ No ☐

Q9. Please indicate the number of **premolar teeth** used for preclinical teaching of posterior restorations. Please tick only **ONE (1)** answer for each cavity depth.



Shallow cavity involving  
outer  $\frac{1}{3}$ rd dentine



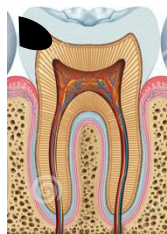
Moderate cavity involving  
middle  $\frac{1}{3}$ rd dentine



Deep cavity involving  
inner  $\frac{1}{3}$ rd dentine

Material	Cavity depth	0	1	2	3	4	5	More than 5
Amalgam	Shallow occlusal cavity							
	Moderate occlusal cavity							
	Deep occlusal cavity							
Composite	Shallow occlusal cavity							
	Moderate occlusal cavity							
	Deep occlusal cavity							

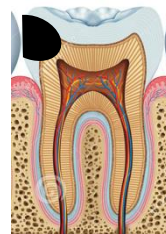
Q10. Indicate the number of **molar teeth** used for preclinical teaching of posterior restorations. Please tick only **ONE (1)** answer for each cavity depth.



Shallow cavity involving  
outer  $\frac{1}{3}$ rd dentine



Moderate cavity involving  
middle  $\frac{1}{3}$ rd dentine



Deep cavity involving  
inner  $\frac{1}{3}$ rd dentine

Material	Cavity depth	0	1	2	3	4	5	More than 5
Amalgam	Shallow proximal cavity							
	Moderate proximal cavity							
	Deep proximal cavity							
Composite	Shallow proximal cavity							
	Moderate proximal cavity							
	Deep proximal cavity							

**Part D: CLINICAL TEACHING, TRAINING & ASSESSMENT ON POSTERIOR RESTORATIONS.**

- Q1. Teaching on the use of **liners and bases** for posterior composite restorations:  
You can tick more than one answer.

Restorative material	Restorative protocols	Moderate cavity	Deep cavity
<b>Amalgam</b>	GIC (base)		
	Hard setting calcium hydroxide (liner)		
	Hard setting calcium hydroxide (liner) + GIC (base)		
	No liner and/or base		
<b>Composite</b>	GIC (base)		
	Hard setting calcium hydroxide (liner)		
	Hard setting calcium hydroxide (liner) + GIC (base)		
	No liner and/or base		

- Q2. Which restorative material(s) is/are recommended for posterior sites?  
You can tick more than one answer.

Restorative material	Amalgam	Composite	GIC
Maxillary premolar			
Mandibular premolar			
Maxillary molar			
Mandibular molar			

- Q3. Which restorative material(s) is/are most commonly placed at posterior sites by students?  
You can tick more than one answer.

Restorative material	Amalgam	Composite	GIC
Maxillary premolar			
Mandibular premolar			
Maxillary molar			
Mandibular molar			

- Q4. What is/are the standard **isolation method(s)** taught for posterior restorations?  
You can tick more than one answer.

Isolation technique	Rubber dam	Cotton roll	No isolation required
<b>Amalgam</b>			
<b>Composite resin</b>			
<b>Glass ionomer cement</b>			

- Q5. Do you think that the teaching and use of posterior amalgam restorations is still relevant?  
Please tick only **ONE (1)** answer.

Highly relevant  
Possibly relevant  
Possibly not relevant  
Not relevant


- Q6. What is the standard **restorative technique** taught for posterior composite restorations?  
You can tick more than one answer.

Restorative technique	Bulk fill	Incremental fill
Shallow cavity		
Moderate cavity		
Deep cavity		

- Q7. Please indicate the **restorative protocol(s)** taught for posterior composite restorations?  
You can choose more than one answer for each statement.

Criteria	Restorative protocols	Yes	No
Bevelling	Bevel occlusal margins		
	Bevel the proximal box margins		
	No bevel		
Matrix and wedging techniques (for proximal cavities)	Circumferential metal band with wooden wedge		
	Sectional metal band with wooden wedge		
	Transparent matrix band with a light-transmitting wedges		
	Sectional matrix system (Palodent)		
Bonding system	Total-etch system		
	Self-etch system		
Curing lights used	Quartz-halogen light		
	Light emitting diode (LED) light		
	Both lights		
Finishing techniques	Finishing with water cooling		
	Finishing without water cooling		
Finishing instruments	Finishing diamond burs		
	Finishing TC burs		
	Finishing discs		
	Finishing strips		

- Q8. Do the final year students have to complete certain clinical requirement for posterior restorations before they are allowed to sit for final examination?

Restorative Material	Yes	No
Amalgam		
Composite		

- Q9. Please indicate the assessment/s conducted to evaluate the students' clinical competency?  
You can choose more than one answer.

Clinical viva

Clinical competency test

Objective structural clinical examination (OSCE)

Self-assessment

Peer-assessment

Other: \_\_\_\_\_


- Q10. Do you anticipate any changes to this aspect of your curriculum in the next year or two based on the new literature findings?


Thank you most sincerely for completing this questionnaire.