

“Direct Bonding of Orthodontic Buttons Teaching Methodology”

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Procedure: Isolate, etch, bond, and attach composite buttons for orthodontic procedures.

RDA DUTY – DIRECT SUPERVISION

Course Description:

The scope of practice for California RDA's now includes the direct bonding of orthodontic buttons. This session will give you the tools needed to incorporate this into your program at a pre-clinical level. We will focus on techniques for bonding buttons for use in orthodontic treatment with aligners and will touch on buttons used with traditional orthodontic bracket treatment.

Course Objectives:

By the end of this presentation, participants will be able to:

1. Define the use of orthodontic buttons
2. Identify the steps in the orthodontic button bonding technique
3. Identify troubleshooting techniques in orthodontic button bonding
4. Apply best practices in orthodontic button bonding for incorporating into their RDA program

CALIFORNIA ASSOCIATION OF DENTAL ASSISTING TEACHERS 2025 CONFERENCE

Procedure: Isolate, etch, bond, and attach composite buttons for orthodontic procedures. RDA DUTY – DIRECT SUPERVISION

Performance Objective:

The student will demonstrate the ability to perform the bonding of orthodontic buttons with a minimum score of 80% on instructor evaluation.

Armamentarium:

Tray and tray cover	Non-Fluoridated Pumice
Mouth Mirror	Bond/Primer
Orthodontic scaler-Band pusher	Bonding Resin
Button Application Tray	Cheek Retractors
Etch	Cotton Rolls (4)
Floss	2 x 2 (1)
Slow Speed HP	HVE, A/W, Saliva Ejector tips

Procedure:

1. Assemble the armamentarium.
2. Doctor evaluated for and removed any calculus present.
3. Polished surfaces to be bonded with non-fluoridated pumice.
3. Examined application tray and determined button placements – Noted teeth to be bonded and placement position. Write on tray cover.
4. Try in application tray, check for proper fit. Be sure it seats completely and there are no areas of impinging tissue. Trim if needed.
5. Apply bonding resin in each depressed area on application tray being careful not to create air bubbles. Slightly overfill each area neatly to keep the excess flash from the teeth. Place under a cover out of light.
5. Apply lip conditioner to patients' lips.
6. Place cheek retractors, cotton rolls, and bite block.
7. Apply etch to each surface where buttons to be bonded for 20 seconds.
8. Remove etch material by first suctioning off as much as possible then rinse thoroughly.
9. Apply bond/primer to the areas to be bonded. Dry with air very slightly to spread material.
10. Note: If using a self-etch primer, no rinsing required.
11. Seat application tray by starting in the posterior then seating the anterior pushing firmly to assure the tray is seated completely. Have the patient bite down on cotton rolls placed on both the right and left sides. Place pressure on each button and light cure for 20 seconds each.
12. Remove tray and check each button to be sure they are all adhered to the tooth surface.
13. Using the sickle scaler, remove any excess flash of bonding resin or primer.
14. Floss the contacts checking for any excess flash.
15. Give hygiene instructions – brush thoroughly, do not bite into anything hard, avoid staining type foods such as red pasta sauce, dark colored beverages.
16. Give Aligner instructions as per the orthodontist instructions.

DENT 202 - Advanced Dental Specialties

Procedure: Bonding of Orthodontic Buttons for Aligners

Performance Objective:

The student will demonstrate the ability to perform the bonding of orthodontic buttons with a minimum score of 80% on instructor evaluation.

Evaluation Criteria:

3 = no errors 1 = 3-4 errors
2 = 1-2 errors 0 = 5 or more errors

Grading Rubric		
57	10	A
56-52	9	A
51-46	8	B
45 - 44	7	C
43 - 0	NO PASS	

	CRITERIA	SE	IE
1	Gathered the correct armamentarium and arranged in proper order of use		
2	Checked button application tray and noted where buttons are to be placed		
3	Evaluated teeth and noted where buttons to be placed		
4	Had doctor scale any calculus present		
5	Removed plaque by use of non-fluoridated pumice		
6	Tried in application tray and checked for proper fit and any areas to be trimmed or adjusted		
7	Effectively applied bonding resin in the application tray, slightly overfilling		
8	Demonstrate isolation techniques – placed cheek/tongue retractors		
9	Dried and applied etchant to the correct teeth, in the appropriate area to be bonded		
10	Demonstrated proper suction and rinsing of etchant material		
11	Applied bond/primer to the correct areas on the appropriate teeth		
12	Properly seated application tray and had patient bite on cotton rolls		
13	Applied pressure to each button and cured with curing light		
14	Removed isolation devices and provided a full mouth rinse		
15	Checked that each button securely in place		
16	Removed any excess bonding primer/resin around button		
17	Removed any excess bonding primer/resin interproximally		
18	Doctor evaluation of buttons		
19	Provided oral hygiene instructions and aligner instructions		
	(57 points possible) TOTAL		

EVALUATED BY: _____ DATE _____