



Dental Dam Procedures

Basic Techniques



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Dental Dam

Dental Dam is a thin sheet of non-latex or natural latex rubber, used in dentistry to “isolate” the teeth.

The use of dental dam ensures the best possible results from a given dental treatment. The advantages of dental dam include:

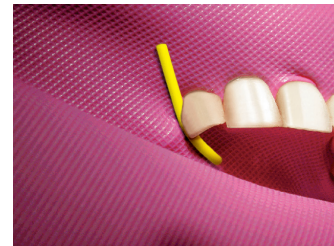
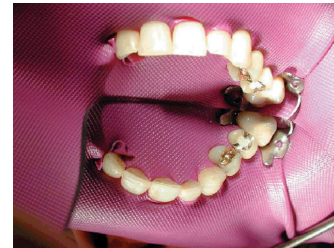
Asepsis Barrier Technique

Moisture Control

Increased Access/Visibility

Patient Protection & Risk Management

Increased Operating Efficiency



Dental Dam	Thin (.006"±.002")		Medium (.008"±.002")		Heavy (.010"±.002")		Extra Heavy (.012"±.002")		Convenience Packs		Roll Dam	
	5x5*	6x6**	5x5	6x6	5x5	6x6	5x5	6x6	5x5	6x6	5x18ft	6x22ft
LATEX												
Light	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dark	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Green	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Blue			✓	✓	✓	✓						
Fiesta Dental Dam	✓	✓	✓	✓	✓	✓			✓	✓		
Elasti-Dam			✓	✓	✓	✓						
NON-LATEX												
Standard Green			✓	✓						✓		
Flexi-Dam				✓								

Shelf-Life Natural rubber latex dental dam is a perishable product. It is sensitive to age and storage conditions. Many variables (especially temperature) affect this material, therefore it should be stored in temperatures less than 80°F or 26°C.

Non-Latex Dental Dam is not as sensitive to temperature as latex dental dam but should be stored at ambient room temperature to maximize shelf life.

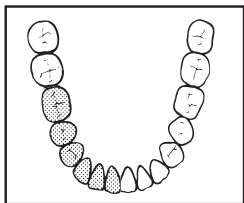
Date Code For best product performance, dental dam should be used prior to the expiration date listed on the box.

Type of Dam	Benefits	Usage Recommendations	
		Endo	Resto
Light	Increased transillumination Enhanced view of clinical field Vanilla scented/greater patient acceptance	✓	
Dark	Color contrast of clinical field Increased visibility		✓
Green	Color contrast of clinical field Increased visibility Mint scented/greater patient acceptance	✓	✓
Blue	Improved photographic contrast of clinical field		✓
Fiesta Dental Dam (pink, blue, purple)	Fruit-scented Greater patient acceptance	✓	✓
HYGENIC Non-Latex Dental Dam (teal green)	100% latex-free & powder free No patient or staff reaction to latex Increased transillumination Enhanced view of clinical field Extensive shelf-life More tear resistant elastic than latex dam No offensive odor	✓	✓
HYGENIC Flexi-Dam Non-Latex Dental Dam (purple, teal green)	100% latex-free & powder free No patient or staff reaction to latex Increased transillumination Enhanced view of clinical field Extensive shelf-life More tear resistant elastic than latex dam No offensive odor	✓	✓

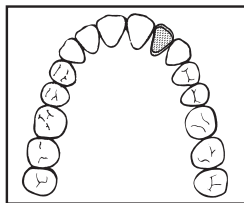
Simplified Steps of Dental Dam Application

Step #1 - Determine the Operating Field

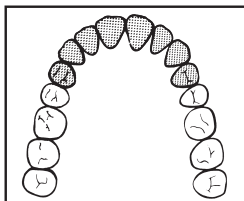
Operating Fields



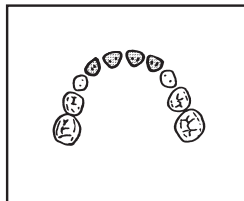
POSTERIOR ISOLATION
One tooth distal to the tooth (teeth) being treated and extend to midline.



SINGLE-TOOTH (ENDODONTIC/SEALANTS) ISOLATION
Include only the tooth being treated.



ANTERIOR ISOLATION
Include premolar to premolar.

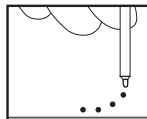


PEDODONTIC ISOLATION
Isolate one tooth mesial and distal to the tooth (teeth) being treated.

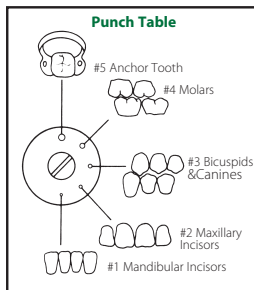
Step #2 - Dental Dam Preparation

DETERMINE HOLE POSITIONS
Hole positions can be easily marked using a template or a stamp.

MARKING HOLE POSITIONS
Place the dam on top of the template and mark the holes using a felt-tip pen.



PUNCHING HOLES
Punch the appropriate hole sizes for the teeth to be included in your isolation (see diagram).



Proper punching includes proper alignment of the punch table with the pin, alignment of the hole mark on the dam, and punching; then, pulling the dam up over the point of the punch.



Nick Tag Correct

An improperly cut hole will result in a nick or tag which may cause the dam to rip while it is being placed (consistent nicks or tags may be indicative of a dull punch).

When using Flexi Dam Non-Latex Dental Dam, it is advisable to punch one hole size smaller than recommended for latex dam.

WATER SOLUBLE LUBRICANT

A water-soluble lubricant (KY[®] Jelly) is placed on the tissue (non-powdered) side of the dam. The lubricant facilitates placement of the interseptal dental dam. Vaseline[®] is not recommended as it does not readily rinse off the surfaces of the teeth.

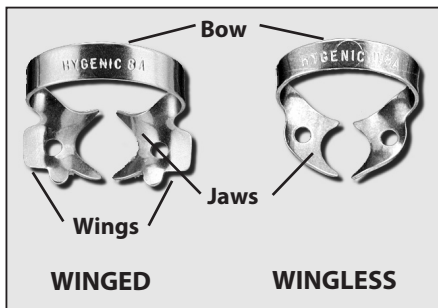
KY[®] Jelly is a trademark of Johnson & Johnson
Vaseline[®] is a trademark of Chesebrough Ponds USA Co.

Step #3

Clamp Selection and Placement

RETAINER SELECTION

Retainers are a general classification for devices that hold the dental dam in place. Examples of



retainers are clamps and WEDJETS® Cord. There are two types of clamps: winged and wingless. Winged clamps have projections at the jaws, while wingless do not. A wingless clamp is designated by a "W" which precedes the number. An "A" following the number identifies a clamp with subgingival jaws.

Please note the anatomical landmarks for each style clamp. When placing a clamp, the bow of the clamp is positioned on the distal of the tooth.

SELECTION GUIDELINES

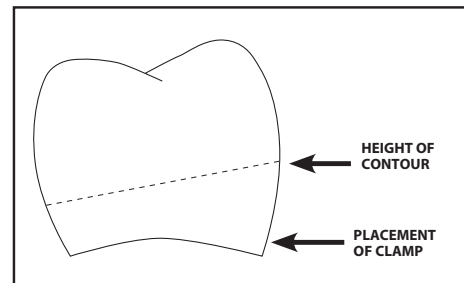


Select a clamp that will maintain four-point contact with the tooth's proximal surfaces. If a clamp is too large, it will impinge on the soft tissues. If it is too small, it will not properly grasp the tooth's surface, and will be unstable.

Anterior Tooth:	Use a double-bowed clamp (i.e. #9).
Premolar:	Use a small, flat-jawed clamp, (i.e. #00; #2) or curved-jawed clamp (#1) for maxillary premolar
Mandibular Molar:	Use a flat-jawed clamp, (i.e. #3; #7).
Maxillary Molar:	Use a clamp with curved jaws (i.e. #8; #56).
Partially-Erupted Tooth:	Use a clamp with sub-gingivally designed jaws, suitable to size of anchor tooth (i.e. #2A, #8A, #14, #14A).
Structurally Compromised Tooth:	Use a clamp with serrated jaws (#12A; #13A)

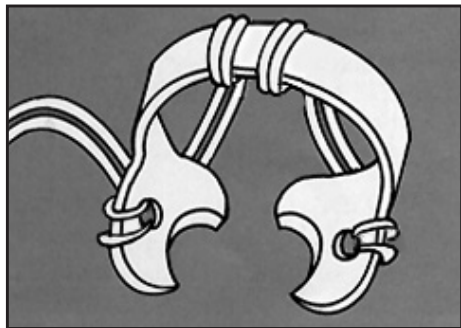
CLAMP PLACEMENT

Apply the LINGUAL jaw of the clamp first. Maintaining contact with the lingual surface, spread the clamp open just far enough to clear the height of contour. Then slide the jaw gingivally below the height of contour along the facial surface, into position. By maintaining contact with the lingual surface you will have proper control.



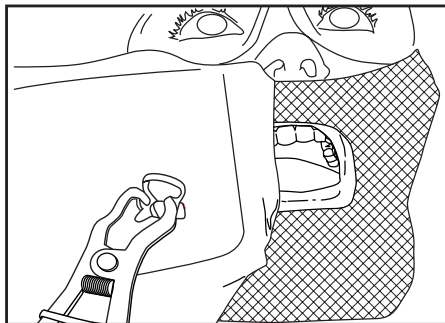
The jaws grasp the tooth at four points below the height of contour, without impinging on the gingival tissue.

Step #4 Retainer/Clamp Application Techniques



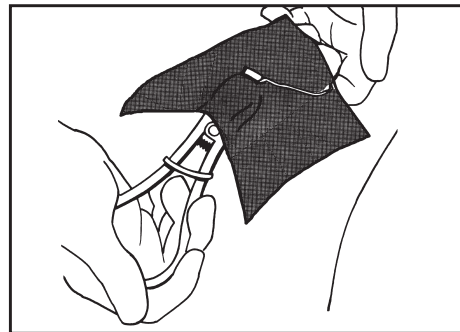
The Wingless Technique:

Since the clamp is placed on the tooth first, it is necessary to tie a safety ligation* to the clamp to prevent swallowing if the clamp becomes dislodged.



The Winged Technique:

The advantage is that steps are eliminated because the dam, clamp, and frame are simultaneously carried to the patient's mouth for placement.



The Modified Winged Technique:

The dam is stretched over the bow of a wingless clamp prior to its placement in the mouth.

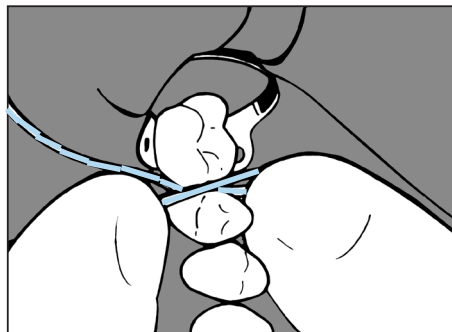
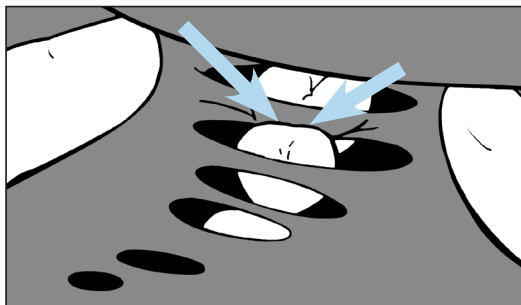
*It is recommended that a safety ligation also be placed on a winged clamp to protect the patient should the clamp become dislodged from the dam.

Step #5 - Dental Dam Placement

INTERPROXIMAL PLACEMENT OF DENTAL DAM

Interproximal placement of the interseptal dental dam may be easily accomplished if a water-soluble lubricant is applied to the dam and the following techniques are employed.

Knifed-Edge Technique: Knife the edge through the contact area. Unless the contact is very tight the dam should slip into place. Do not allow dam to bunch up as this will prevent the dam from slipping through the contact.



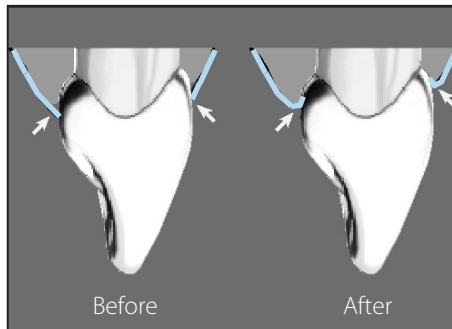
Loop Technique:

For more difficult contacts, use waxed floss to carry an edge of the dam through the contact area. The lingual end of the floss is looped over and inserted into the contact, while carrying more dam with it. Remove floss by pulling both ends buccally without disturbing the dam.

CREATING A MOISTURE SEAL

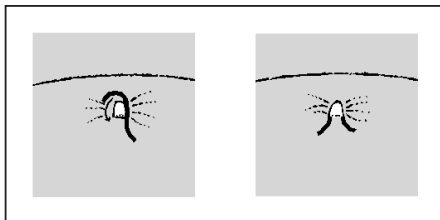
Inversion of the edges of the dental dam is essential in creating a moisture seal around the necks of the teeth. A description of this technique follows.

INVERSION: Using a blunted instrument and a steady stream of air, tuck the edges of the dental dam into the gingival sulcus.

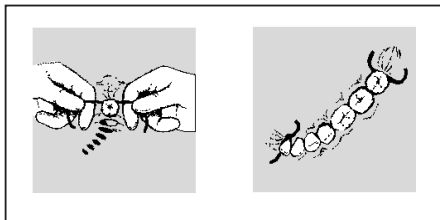


Step #5 - Dental Dam Placement (Continued)

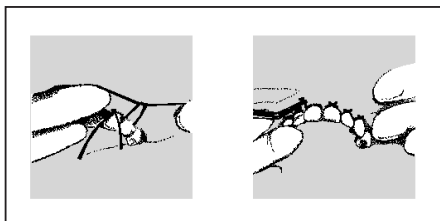
USING WEDJET'S® DENTAL DAM STABILIZING CORD



Single-Tooth Isolation



Quadrant Isolation



Whitening Procedures/Class V Restorations

DAM-IT, IT'S EASY! Educational Programs

Two Ways to Earn Valuable CE Credit!

THE SELF-STUDY PROGRAM (2 CE UNITS) :

- Features CD-ROM/Companion Handbook
- Meets national/state mandated CE requirements

THE HANDS-ON SEMINARS (3-6 CE UNITS):

- Features hands-on participation
- Learn dam application techniques for esthetic (bonding) procedures

References

The material in this manual was reproduced from the Dam-It, It's Easy! Educational Programs CE Handbook.

Clamp Product Offering

FIESTA Color Coded Matte Finish Winged and Wingless Clamps

ANTERIOR



#9*

#W9**

MOLAR



#W3**

#7*

#W7**

Small Lower Molars

Lower Molars

PREMOLAR



#2*

#W2**

#2A**

#W2A**

Standard-size Bicuspids

Bicuspids



#W8**

#4*

#W56**

Upper Molars

Small Upper Molars

Upper & Lower Molars

SERRATED JAWS

Serrations for improved retention



#12A*

#13A*

Upper Right Molars /
Lower Left Molars

Lower Left Molars /
Upper Right Molars

*For irregularly shaped, structurally
compromised or partially erupted molars*



#8A*

#W8A**

#14A*

#W14A**

SMALL

LARGE

* Included in **Fiesta 9** Winged Clamp-Pak

** Included in the **Fiesta 9W** Wingless Clamp-Pak

Fiesta Color Coded, Matte Finish Clamps (winged)

H09957	#2	H09962	#9
H09958	#2A	H09963	#12A (serrated jaws)
H09959	#4	H09964	#13A (serrated jaws)
H09960	#7	H09965	#14A
H09961	#8A		

Fiesta Color Coded, Matte Finish Clamps (wingless)

H02794	#W2	H02799	#W8A
H02795	#W2A	H02800	#W9
H02796	#W3	H02802	#W14A
H02797	#W7	H02803	#W56
H02798	#W8		

Dental Dam Starter Kit with winged clamps (complete)
H02778 36 sheets Dental Dam* (Green, Medium),
6" (152mm) frame (H01414), Fiesta 9 Color Coded Clamp Pak,
Template, Wedjets® Cord, Punch, Forceps
H02782 same contents as H02778 in carrying case

Dental Dam Starter Kit with wingless clamps (complete)
H02790 36 sheets Dental Dam* (Green, Medium),
6" (152 mm) frame (H01414), Fiesta 9W Color Coded Clamp
Pak, Template, Wedjets® Cord, Punch, Forceps

Dental Dam Kit with winged clamps (w/o punch & forceps)
H02779 36 sheets Dental Dam* (Green, Medium),
6" (152 mm) frame (H01414), Fiesta 9 Color Coded Clamp Pak,
Template, Wedjets® Cord

Dental Dam Kit with wingless clamps (w/o punch & forceps)
H02792 36 sheets Dental Dam* (Green, Medium),
6" (152 mm) frame (H01414), Fiesta 9W Color Coded Clamp
Pak, Template, Wedjets® Cord

Dental Dam Kit with metal frame (with wingless clamps)
H02793 36 sheets Dental Dam* (Green, Medium),
6" (152 mm) metal frame (H07083), Fiesta 9W Color Coded
Clamp-Pak, Template, Wedjets® Cord

Clamp Paks (Matte Finish, Color Coded, Stainless Steel)
H09966 Fiesta 9 Color Coded Clamp Pak (winged)
Size: 2, 2A, 4, 7, 8A, 9, 12A, 13A, 14A, & organizer
H02801 Fiesta 9W Color Coded Clamp Pak (wingless)
Size: W2, W2A, W3, W7, W8, W8A, W9, W56, W14A
& organizer
H09956 Fiesta Color Coded Clamp Organizer

Simple Dam Kit with Elasti-Dam - Easy to Use, All in One Kit
H02900 1 Elasti-Dam, Medium, Green 36pcs
1 Dental Dam Template
1 Dental Dam Frame
4 Fiesta® Dental Dam Clamps (#2, #9, #12A, #13A)
1 Dental Dam Punch, Dental Dam Forceps
1 Wedjets® Stabilizer Cord
1 Instructional CD (in English)

Simple Dam Kit with Flexi-Dam - Easy to Use, All in One Kit
H02901 1 Non-Latex Flexi-Dam, Medium, Purple 30pcs
1 Dental Dam Template
1 Dental Dam Frame
4 Fiesta® Dental Dam Clamps (#2, #9, #12A, #13A)
1 Dental Dam Punch, Dental Dam Forceps
1 Non-Latex Wedjets® Stabilizer Cord
1 Instructional CD (in English)

Gloss Finish Winged and Wingless Clamps

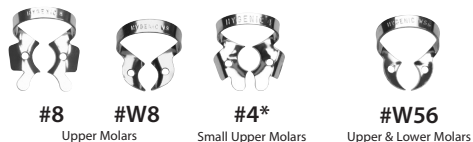
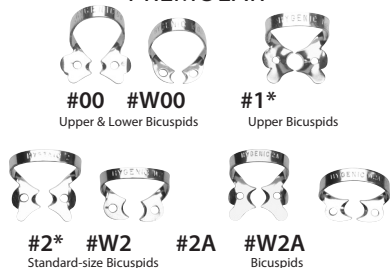
ANTERIOR



MOLAR



PREMOLAR

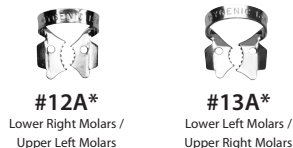


For irregularly shaped, structurally compromised or partially erupted molars



SERRATED JAWS

Serrations for improved retention



* Included in **System 9** Clamp-Pak

BRINKER TISSUE RETRACTORS

For gingival retraction



Dental Dam Kit with Brinker Clamps (Gloss Finish Clamps)

H09715 52 sheets Dental Dam* (Green, Medium), 5" (127 mm) plastic frame (H01416), Brinker Clamp-Pak, Template, Wedjets* Cord, Punch, Forceps

Clamp Paks (Gloss Finish, Stainless Steel)

H02701 System-9 Clamp-Pak (winged)
Size: 1, 2, 4, 7, 8A, 9, 12A, 13A, 14A
H01054 Brinker Clamp-Pak
Size: B1, B2, B3, B4, B5, B6

Gloss Finish, winged clamps

H02762	#00	H02760	#8
H02703	#1	H02759	#8A
H02761	#2	H02763	#9
H05688	#2A	H02706	#12A (serrated jaws)
H05689	#3	H02705	#13A (serrated jaws)
H02704	#4	H05690	#14
H02758	#7	H02757	#14A

Gloss Finish, wingless clamps

H07792	#212	H02767	#W8
H02769	#W00	H02766	#W8A
H02768	#W2	H02770	#W9
H02775	#W2A	H02774	#W14
H03814	#W3	H02764	#W14A
H02765	#W7	H03815	#W56

Gloss Finish, Brinker Tissue-Retractors Clamps

H01048	B1	H01051	B4
H01049	B2	H01052	B5
H01050	B3	H01053	B6

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