

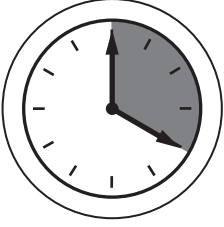
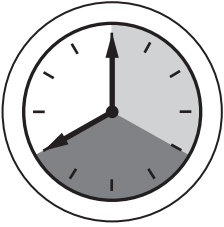

Moisture control and dental dam

| | Types of learning | Resources | UK General Dental Council learning outcome(s)* | Session learning outcome(s) |
|---------|--------------------|----------------------------|--|---|
| Session | | | | Effectively isolate a single posterior tooth on a plastic model |
| | Didactic elements | Dental dam kits and models | 1.1.1 | Discuss the indications and contraindications to using dental dam |
| | Critical appraisal | Chapter 18 | | Determine appropriate modes of applications of dental dam |
| | Peer review | Handout | | Apply rubber dam efficiently and effectively to isolate a tooth |
| | | | | Appreciate the limitations of dental dam use |

Teaching notes

KEY POINTS:

- ✓ This session can be carried out in the skills lab, or in a seminar room using Frasaco® models
- ✓ Students should work in pairs to successfully isolate a number of tooth types
- ✓ There is no need at this basic stage to introduce split dam, root clamps or floss ligatures unless the cohort are relatively advanced
- ✓ The clamp should ideally be selected and placed onto the tooth before the dam is placed – this ensures the correct tooth is clamped, and the clamp is engaging appropriately and is stable.

| | |
|---|--|
|  | <ul style="list-style-type: none"> • Work through sheet: <ul style="list-style-type: none"> ▪ Why would you need to use a dental dam during restorative dental procedures? ▪ What problems do you suspect there are with using dental dam? ▪ What are the alternatives and how effective are they? • Allow the students to attempt isolation |
|  | <ul style="list-style-type: none"> • Discuss equipment within a typical kit • Outline different clamp types and rationale for use • Students to work in pairs to isolate a lower first molar tooth |
|  | <ul style="list-style-type: none"> • Peer review and critically appraise the outcomes and develop a standardised approach to dam placement |

Process

- Identify correct tooth
- Select appropriate clamp
- Pass floss once through clamp holes
- Engage clamp to correct tooth, and check for stability
- Check beaks engage tooth tissue and no rocking
- Punch dam and stretch over clamp
- Lift from ridge of distal tooth with flat plastic and encourage dam over beaks/wings
- Pass floss through each contact

Dental dam worksheet:

1. Answer the following questions:
 - a) Why would you need to use a dental dam during restorative dental procedures?
 - b) What problems do you suspect there are with using dental dam?
 - c) What are the alternatives and how effective are they?
2. Now look at the tray of materials set out for you. There should be:
 - A dental model
 - Sheet of dam
 - Dam frame
 - Clamps (assortment)
 - Hole puncher
 - Clamp forceps
 - Dental floss

Consider how you would use this kit to isolate a lower first premolar tooth to be root canal treated? Think about how this will need to be approached if this was a real patient. Your group will get 10 minutes to come up with a solution!
3. Now discuss your approach relating this to:
 - Clamp type chosen
 - Hole size
 - Hole position
 - Hole No.
 - Application of different pieces of the kit
 - Alternative methods
4. An assortment of clamps has been left out for you. Where would each of these clamps be used?
5. Finally, apply the dam up as if you want to place an occlusal composite restoration in the lower right first molar. Discuss the approach you will use and the possible variations in technique.