Immediate enamel restoration

1 session recommended

2 sessions

recommended

Assess pulp vitality by the usual tests.

- Isolate the tooth with a rubber dam.
 Remove the infected dentine with a round bur and/or a hand excavator. Leave the affected dentine.
- 3) Adapt a matrix around the tooth if a wall is missing.
- Prepare Biodentine[™] according to Biodentine[™] mixing instructions (as described in the IFU).
- 5) Insert Biodentine[™] in the cavity, so that the volume of missing dentine is replaced by the same volume of Biodentine[™] avoiding trapping air bubbles. Flatten the material without excessive pressure and ensure good adaptation to the cavity walls and margins.
- 6) Wait until the end of the setting time before performing the permanent enamel restoration. Biodentine[™] is compatible with all direct crown restoration techniques and particularly with all types of bonding systems.

2 Non-immediate

enamel restoration

First session

Assess pulp vitality by the usual tests.

1) Isolate the tooth with a rubber dam.

- 2) Remove the infected dentine with a round bur and/or a hand excavator. Leave the affected dentine.
- 3) Adapt a matrix around the tooth if a wall is missing.
- 4) Prepare Biodentine $^{\rm \tiny TM}$ according to Biodentine $^{\rm \tiny TM}$ mixing instructions (as described in the IFU).
- 5) Insert Biodentine[™] in the cavity avoiding trapping air bubbles. Ensure good adaptation of the material to the cavity walls and margins. Do not apply excessive pressure on the material.

6) Model the surface of the restoration.

- 7) Wait until the end of the setting time before removing the matrix.
- 8) To optimize the mechanical properties of the material and facilitate removal of the matrix, a varnish can be applied onto the surface of the restoration.

9) Check occlusion.

Second session (1 week to 6 months later)

Within one week to six months after placement of Biodentine[™], prepare the cavity according to the criteria recommended for the selected restorative material. The remaining Biodentine[™] material can be considered as sound artificial dentine and permanently left in deep areas of the cavity and in areas adjacent to the pulp chamber. Biodentine[™] is compatible with all direct or indirect rown restoration techniques (Inlay/Onlay), and particularly with all types of bonding systems.



Biodentine

Clinical procedures



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3 Pulp capping (direct and indirect)

1 or 2 sessions recommended

2 sessions

First session Assess pulp vitality by the usual tests. 1) Isolate the tooth with a rubber dam. 2) Remove the infected dentine with a round bur and/or a hand

- excavator. Leave the affected dentine.
- Adapt a matrix around the tooth if a wall is missing.
- 4) If there is bleeding in the pulp, haemostasis must be achieved before applying Biodentine[™].
- 5) Prepare Biodentine[™] according to Biodentine[™] mixing instructions (as described in the IFU).
- 6) Place Biodentine[™] directly on the exposed pulp avoiding trapping air bubbles. Ensure good adaptation of the material to the cavity walls and margins. Do not apply excessive pressure on the material.
- 7) Perform the immediate or non-immediate enamel restoration as indicated above.

In case of non-immediate enamel restoration, a second session is required.

Patients should be followed according to current recommendations.

4 Pulpotomy

(reversible & irreversible pulpitis) recommended

First session

Assess pulp vitality by the usual tests. In case of clinical signs and symptoms of irreversible pulpitis, pulpotomy is recommended when bleeding can be controlled in 5 minutes.

1) Isolate the tooth with a rubber dam.

2) Remove the infected dentine with a round bur and/or a hand excavator. 3) Gain access to the pulp chamber and clean out the pulp.

4) If there is bleeding in the pulp, haemostasis must be achieved before applying Biodentine[™]. If haemostasis cannot be achieved after 5 minutes, further pulp tissue should be removed (partial or full pulpotomy) step by step until a controlled bleeding. A full coronal pulpotomy can be carried out to the level of the root canal orifices with bleeding arrested.

5) Adapt a matrix around the tooth if a wall is missing.

6) Prepare Biodentine[™] according to Biodentine[™] mixing instructions (as described in the IFU).

7) Place Biodentine[™] directly in the pulp chamber and ensure good adaptation to the cavity walls and margins.

Model the surface of the restoration.

- 9) Wait until the end of the setting time of the material before removing the matrix.
- 10) To optimize the mechanical properties of the material and facilitate removal of the matrix, a varnish can be applied onto the surface of the restoration.
- Check occlusion.

Second session (1 week to 6 months later)

- 1) Within one week to six months after placement of Biodentine[™]. prepare the cavity according to the criteria recommended for the selected restorative material.
- 2) Patients should be followed according to current recommendations. The remaining Biodentine[™] material can be considered as sound artificial dentine and permanently left in deep areas of the cavity and in areas adjacent to the pulp chamber. Biodentine[™] is compatible with all direct or indirect crown restoration techniques, and particularly with all types of bonding systems.

6 Repair of root perforations

3 sessions recommended

First session

1) Isolate the tooth with a rubber dam.

- 2) Prepare the root canal alternately using suitable endodontic instruments and a solution of sodium hypochlorite.
- 3) Dry the canal with paper points without totally dehydrating the root canal and use a chlorhexidine solution or a calcium hydroxide paste for disinfection between visits. Tightly seal the access cavity with a temporary cement to protect the temporary filling.

Second session (1 week later)

1) At the next visit (usually after one week), place a rubber dam and remove the temporary crown restoration. Clean the canal alternately using a solution of sodium hypochlorite and suitable endodontic instruments. Dry the canal with paper points without totally dehydrating the root canal.

2) Prepare Biodentine[™] according to Biodentine[™] mixing instructions (as described in the IFU).

3) Dispense Biodentine[™] over the perforation site using a suitable instrument.

Condense Biodentine[™] with a plugger.

5) Take an X-ray to check that the material is correctly positioned.

6) Remove excess material and place a temporary filling.

Third session

Complete root canal treatment at the next visit according to current recommendations.

6 Repair of perforating

3 sessions recommended

First session

1) Isolate the tooth with a rubber dam.

internal resorptions



3) Dry the canal with paper points without totally dehydrating the root canal and use a calcium hydroxide paste for disinfection between visits. Tightly seal the access cavity with a temporary cement to protect the temporary filling.

Second session (1 week later)

1) At the next visit (usually after one week), place a rubber dam and remove the temporary crown restoration. Clean the canal alternately using a solution of sodium hypochlorite and suitable endodontic instruments. Dry the canal with paper points without totally dehydrating the root canal.

2) Prepare Biodentine[™] according to Biodentine[™] mixing instructions (as described in the IFU).

3) Dispense Biodentine[™] over the resorptive defect using a suitable instrument.

Condense Biodentine[™] with a plugger.

5) Take an X-ray to check that the material is correctly positioned. Remove excess material and place a temporary filling.

Third session

Complete root canal treatment at the next visit according to current recommendations.

Repair of furcation perforations

2 sessions recommended

3 sessions

First session

- 1) Isolate the tooth with a rubber dam.
- 2) Rinse the cavity with a solution of sodium hypochlorite to disinfect the area.
- 3) If there is bleeding, haemostasis must be achieved before applying Biodentine[™].
- 4) Dry the pulp chamber.

5) Prepare Biodentine[™] according to Biodentine[™] mixing instructions (as described in the IFU).

6) Dispense Biodentine[™] and condense. Perforation repair and crown restoration are performed in a single step.

7) Take an X-ray to check that the material is correctly positioned. 8) Remove excess material.

Second session

At a subsequent visit, if all clinical signs of a successful treatment are present, the possibility of a permanent restoration can be considered.

recommended

8 Apexification First session



- 2) Prepare the root canal alternately using suitable endodontic instruments and a solution of sodium hypochlorite.
- 3) Dry the canal with paper points without totally dehydrating the root canal and use a calcium hydroxide paste for disinfection between visits. Tightly seal the access cavity with a temporary cement to protect the temporary filling.

Second session (1 week later)

- 1) At the next visit (usually after one week), place a rubber dam and remove the temporary crown restoration. Clean the canal alternately using a solution of sodium hypochlorite and suitable endodontic instruments. Dry the canal with paper points without totally dehydrating the root canal.
- 2) Prepare Biodentine[™] according to Biodentine[™] mixing instructions (as described in the IFU).
- 3) Dispense Biodentine[™] in the root canal using a suitable instrument.
 - 4) Condense Biodentine[™] with a plugger.
 - 5) Take an X-ray to check that the material is correctly positioned.
 - 6) Remove excess material and place a temporary filling.

Third session

Complete root canal treatment at the next visit according to current recommendations.

Root-end filling in endodontic surgery



- 1) Gain access to the operative site following the current recommendations in endodontic surgery.
- 2) Using a specific ultrasonic tip, prepare a root-end cavity, 3 to 5 mm deep in the apical portion of the root canal.
- 3) Isolate the area. Achieve haemostasis. Dry the cavity with paper points.
- Prepare Biodentine[™] according to Biodentine[™] mixing instructions (as described in the IFU).
- 5) Dispense Biodentine[™] in the cavity using a suitable instrument. Condense Biodentine[™] with a small plugger.
- Remove excess material and clean the surface of the root. 7) Take an X-ray to check that the material is correctly positioned.





