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Crown Restorations

Guidelines

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A. Single crown

1. Definition:

An artificial replacement that restores missing tooth structure by surrounding the remaining coronal tooth structure or is placed on a dental implant. (1)

2. Indication:

1. Cover badly broken tooth.
2. Protect the tooth after root canal treatment.
3. Improve esthetic.
4. Support a dental bridge.
5. Cover a dental implant.

3. Contraindication:

1. high caries index and bad oral hygiene patient
2. under the age of 16 due to large pulp and continuous eruption of the teeth

4. Types of crowns: (Classification).

1. According to Coverage area of the crown.
 - a. Full crown -cover the entire tooth structure.
 - b. Partial veneer Crown or $\frac{3}{4}$ crown - covers part of the coronal portion of the tooth.
 - c. Complete replacement or Post crown - replace the natural crown entirely and retains itself by means of a post extended inside the root canal space of the tooth.
2. According to Materials crown restorations could be made of:
 - a. Metal Crowns.
 - b. Non-metal crowns (ceramic or resin)
 - c. A combination of Materials (ceramic or resin fused to metal)



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5. Coverage Criteria and Frequency of Service. As per DHA dental billing rules

- Coverage is determined by member benefit plan
- Its covered for **adults' permanent tooth** that has finished a root canal treatment only.
- Its covered once per 10 years. regardless of the crown material used (metal, ceramic or resin) and the type (Full crown, $\frac{3}{4}$ crown or post crown).



B. Fixed Partial Denture (bridge)

1. Definition:

A prosthetic replacement of one or more missing teeth cemented or otherwise attached to the abutment natural teeth or their implant replacements (1)

2. Indication:

- Replacement of missing permanent teeth
- Prevent shifting of adjacent teeth and changing patient's bite
- Restoring the patient aesthetic, function, phonetic

3. Contraindication:

- In patient with
 - Rampant caries and/or poor oral hygiene
 - Dry mouth (xerostomia) due to great risk of recurrent caries
 - Heavy occlusion, decreased over jet, Edge to edge.
 - Attrition.
- When Retainer/Abutment teeth have
 - Untreated endodontic pathology
 - Periodontal disease
 - An unfavorable crown: root ratio
 - Inadequate remaining tooth structure
 - Tipped or drifted into edentulous space.



4. Component:

A bridge is composed of single crowns that are connected.

- Pontic: The crown at the center that replaces the missing teeth.
- Retainer: the crowns on either side of the pontic that is cemented over the natural tooth.
- Connector: It is the Part that joins the retainer& pontics together.

5. Coverage:

- if medically indicated coverage is determined by member benefit plan

Bridge is Not a covered benefit for Enaya members.

6. Materials:

Same crowns can be made of metal, ceramic or resin materials or a combination of such materials.

C. Stainless-steel crown (SSC)

1. Definition

- Extra-coronal restorations made of metal that are used to restore broken down teeth and large multi-surface cavities.

2. Indication for use:

In primary teeth

- Following a pulpotomy/pulpectomy.
- Teeth with developmental defects
- Extensive dental caries.
- Fractured teeth.
- Children with high-risk caries
- Rampant dental caries

In permanent teeth

- Following a pulpotomy/pulpectomy on permanent molars.



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3. Contraindication:

- Non-restorable tooth
- Individuals with nickel allergy
- Mobile teeth
- Molars with half of the roots or more are resorbed.
- Primary molars that are next to exfoliation(6 to 12 months)

4. Types of stainless steel crowns for children:

When it comes to pediatric dentistry, the most common options used today are as follows:

1-Precontoured Crowns

Crowns are pre-contoured. They reduce the operating time. However, a little trimming and contouring might be necessary.

2-Pretrimmed Crowns

Crowns have non-contoured, straight sides to follow a parallel line to the gingival crest. The crowns still need contouring and trimming.

3-Preveneered Crowns

Crowns that have resin-based composite to create a more aesthetic posterior crown.

4-Stainless Steel Crowns With White Facings

Crowns with pre-veneered plastic facings. These look much better due to the fact they are "white" particularly when front teeth are concerned.

Eligibility/Coverage Criteria:

- Stainless-steel crowns (SSC) are covered if medically Indicated.
- Benefit coverage is determined by member benefit plan
- Other types of crowns is not covered for primary teeth.

D. Disadvantages of the Crowns:

1. Heat generation and Excessive tooth preparation can weaken tooth structure and cause pulp irritation.
2. Periodontal problems, food Impaction, and recurrent caries

E. Prior authorisation requirement for the single crown:

1. ICD and CPT codes must be coded accurately.
2. Post-endodontic treatment x-ray (radiograph)
3. Submission of the request with complete treatment plan (restoration or post and core) in addition to crown.

F. Applicable Codes:

Note. The procedure CDT codes provided in this guideline does not indicate that the service is a covered or non-covered benefit. Benefit coverage is determined by member benefit plan.

F. Applicable Codes:

Single crown CDT codes	
D2390	resin-based composite crown, anterior
D2710	crown - resin-based composite (indirect)
D2712	crown - ¾ resin-based composite (indirect)
D2720	crown - resin with high noble metal
D2721	crown - resin with predominantly base metal
D2740	crown - porcelain/ceramic
D2750	crown - porcelain fused to high noble metal
D2752	crown - porcelain fused to noble metal
D2780	crown - ¾ cast high noble metal
D2781	crown - ¾ cast predominantly base metal

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D2782	crown - 3/4 cast noble metal
D2783	crown - 3/4 porcelain/ceramic
D2790	crown - full cast high noble metal
D2791	crown - full cast predominantly base metal
D2792	crown - full cast noble metal

Stainless steel crown CDT codes

D2930	Prefabricated stainless steel crown - primary tooth
D2931	Prefabricated stainless steel crown - permanent tooth
D2932	Prefabricated resin crown
D2933	Prefabricated stainless steel crown with resin window
D2934	Prefabricated stainless steel crown with resin window

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