Dental Implants Prosthetic Superstructures

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Dental Implants Prosthetic Superstructures
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Overview

Surgical

Prosthetic
Prosthetic Options
Prosthetic Options

- Fixed
  - Zirconia framework
  - Crown retention
  - Acrylic teeth
- Removable
  - Titanium framework
  - Attachment type
  - Porcelain teeth
Prosthetic Options
Prosthetic Options
Prosthetic Options

Classification

FP-1

Replaces crown only
Prosthetic Options

Classification

FP-1
- Replaces crown only

FP-2
- Replaces crown & root
Prosthetic Options

Classification

FP-1
Replaces crown only

FP-2
Replaces crown & root

FP-3
Replaces crown, root & gingiva

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Prosthetic Options

**Classification**

- **FP-1**: Replaces crown only
- **FP-2**: Replaces crown & root
- **FP-3**: Replaces crown, root & gingiva
- **RP-4**: Implant-supported
- **RP-5**: Tissue & implant-supported
Prosthetic Options

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Tuesday 29 October 13
Pros
Options
FP-1
Replaces crown only

Tuesday 29 October 13
Pros Options

FP-1
Replaces crown only

Tuesday 29 October 13
**Definition**

Fixed prostheses that replace the anatomical crown only.

**FP-1**

Replaces crown only
FP-1
Replaces crown only

Definition
Fixed prostheses that replace the anatomical crown only

Indications
- Minimal loss of soft/hard tissue
- Implant can be placed in ideal position
- Crown can be made with natural size & contour
Pros
- Minimal loss of soft/hard tissue
- Implant can be placed in ideal position
- Crown can be made with natural size & contour

Indications
- Minimal loss of soft/hard tissue
- Implant can be placed in ideal position
- Crown can be made with natural size & contour

Contraindications
- Considerable loss of soft/hard tissue
- Implant can NOT be placed in ideal position
- Crown can NOT be made with natural size & contour

Definition
Fixed prostheses that replace the anatomical crown only

FP-1
Replaces crown only
FP-1

Replaces crown only

**Pros**

- Minimal loss of soft/hard tissue
- Implant can be placed in ideal position
- Crown can be made with natural size & contour

**Contra-indications**

- Considerable loss of soft/hard tissue
- Implant can NOT be placed in ideal position
- Crown can NOT be made with natural size & contour

**Definition**

Fixed prostheses that replace the anatomical crown only

**Indications**

- Minimal loss of soft/hard tissue
- Implant can be placed in ideal position
- Crown can be made with natural size & contour

**Contra-indications**

- Considerable loss of soft/hard tissue
- Implant can NOT be placed in ideal position
- Crown can NOT be made with natural size & contour

**Material of choice**

Framework: - Titanium
- Zirconia

Veneer: - Porcelain

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Abutment Selection
Abutment Selection

Titanium Vs Zirconia
Abutment Selection

Titanium Vs Zirconia
Abutment Selection

Titanium Vs Zirconia

Pros

- Strong
- Long-term documented success

Options

- Aesthetic
Abutment Selection

Titanium Vs Zirconia

Pros

- Strong
- Long-term documented success

Disadvantages

- Aesthetic
- Prone to stressed fracture
- Expensive
- Technique sensitive

Advantages

- Aesthetic

Options

Tuesday 29 October 13
Crown Retention

Cement Vs Screw
Crown Retention

Cement Vs Screw

Pros

Options

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Crown Retention

Cement Vs Screw

Pros

Options

Advantages

Aesthetic

Retrievability

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Crown Retention

Cement Vs Screw

Pros

Options

Advantages

Aesthetic

Disadvantages

Cement removal issues

Retrievability

Aesthetic
Prosthetic Options

FP-1
- Replaces crown only

FP-2
- Replaces crown & root

FP-3
- Replaces crown, root & gingiva

RP-4
- Implant-supported

RP-5
- Tissue & implant-supported

Tuesday 29 October 13
FP-2

Replaces crown & root

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Pros
Options

FP-2
Replaces crown & root

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Definition

Fixed prostheses that replace the anatomical crown & a portion of the root

Pros

Options

FP-2

Replaces crown & root
Definition

Fixed prostheses that replace the anatomical crown & a portion of the root

Indications

- Minimal-moderate loss of soft/hard tissue
- Implant can be placed in correct facial-lingual position
- Patient accepts the longer crown (low lip line)

Pros

Options

FP-2

Replaces crown & root
Fixed prostheses that replace the anatomical crown & a portion of the root

Indications
- Minimal-moderate loss of soft/hard tissue
- Implant can be placed in correct facial-lingual position
- Patient accepts the longer crown (low lip line)

Contraindications
- Considerable loss of soft/hard tissue
- High lip line (high aesthetic demand)
- Un-hygienic implant position
FP-2

Fixed prostheses that replace the anatomical crown & a portion of the root

Definition

Indications
- Minimal-moderate loss of soft/hard tissue
- Implant can be placed in correct facial-lingual position
- Patient accepts the longer crown (low lip line)

Contraindications
- Considerable loss of soft/hard tissue
- High lip line (high aesthetic demand)
- Un-hygienic implant position

Material of choice
Framework: - Titanium
- Zirconia
Veneer: - Porcelain

Pros
Options

Tuesday 29 October 13
Prosthetic Options

FP-1: Replaces crown only

FP-2: Replaces crown & root

FP-3: Replaces crown, root & gingiva

RP-4: Implant-supported

RP-5: Tissue & implant-supported
FP-3

Replaces crown, root & gingiva
FP-3
Replaces crown, root & gingiva
Definition

Fixed prostheses that replace the crown, gingiva & ridge

FP-3

Replaces crown, root & gingiva

Pros
Options
FP-3

Definition
Fixed prostheses that replace the crown, gingiva & ridge

Indications
- Moderate-severe loss of soft/hard tissue
- High aesthetic demands
Definition

Fixed prostheses that replace the crown, gingiva & ridge

Indications

- Moderate-severe loss of soft/hard tissue
- High aesthetic demands

Contraindications

- Inability to control hygiene
- Inability to fine tune phonetics
Definition

Fixed prostheses that replace the crown, gingiva & ridge

Indications

- Moderate-severe loss of soft/hard tissue
- High aesthetic demands
- Inability to control hygiene
- Inability to fine tune phonetics

Contraindications

- FP-3
  - Replaces crown, root & gingiva

Pros

Options
**FP-3**

**Definition**
Fixed prostheses that replace the crown, gingiva & ridge

**Indications**
- Moderate-severe loss of soft/hard tissue
- High aesthetic demands

**Contraindications**
- Inability to control hygiene
- Inability to fine tune phonetics
FP-3: Replaces crown, root & gingiva

**Definition**: Fixed prostheses that replace the crown, gingiva & ridge

**Indications**
- Moderate-severe loss of soft/hard tissue
- High aesthetic demands

**Contraindications**
- Inability to control hygiene
- Inability to fine tune phonetics

**Material of choice**
- Framework: Titanium, Zirconia
- Veneer: Porcelain, Acrylic

**Pros**
- Options: FP-3

**Tuesday 29 October 13**
Prosthetic Options

- **FP-1**: Replaces crown only
- **FP-2**: Replaces crown & root
- **FP-3**: Replaces crown, root & gingiva
- **RP-4**: Implant-supported
- **RP-5**: Tissue & implant-supported

Tuesday 29 October 13
Removable prostheses that are supported completely by the implants
Removable prostheses that are supported completely by the implants

- Enough alveolar bone to hold (Mand. 4-6 & Max. 6-8) implants
RP-4

Definition
Removable prostheses that are supported completely by the implants

Indications
- Enough alveolar bone to hold (Mand. 4-6 & Max. 6-8) implants

Contraindications
- Inability to place enough implants
**Definition**
Removable prostheses that are supported completely by the implants

**Indications**
- Enough alveolar bone to hold (Mand. 4-6 & Max. 6-8) implants

**Contraindications**
- Inability to place enough implants

**Material of choice**
Framework: - Titanium
Teeth: - Porcelain
- Acrylic
Teeth Selection
Teeth Selection

Porcelain Vs acrylic

Pros Options

Tuesday 29 October 13
Teeth Selection

Porcelain Vs acrylic

Advantages

- Strong
- Aesthetic
Teeth Selection

Porcelain Vs acrylic

Advantages
- Strong
- Aesthetic

Disadvantages
- Very technique sensitive
- Expensive to make/repair
Teeth Selection

Porcelain Vs acrylic

Pros

- Strong
- Aesthetic

- Cheaper
- Easier to make-repair

Cons

- Very technique sensitive
- Expensive to make/repair
Teeth Selection

Porcelain Vs acrylic

Advantages
- Strong
- Aesthetic

Disadvantages
- Very technique sensitive
- Expensive to make/repair

Pros

- Cheaper
- Easier to make-repair

- Wear off
- Not as aesthetic

Tuesday 29 October 13
Denture Retention
Denture Retention

Attachments
Denture Retention

Attachments

Bar & clips
Denture Retention

Attachments

Bar & clips

Advantages
- The bar splints the implants
Denture Retention

Attachments

Bar & clips

Advantages
- The bar splints the implants

Disadvantages
- Technique sensitive
  - Clips fractures
Denture Retention

Attachments

Bar & clips

- The bar splints the implants

Balls

- Technique sensitive
  - Clips fractures

Advantages

Disadvantages

Pros Options

Tuesday 29 October 13
Denture Retention

Attachments

Bar & clips
- The bar splints the implants
- Technique sensitive
- Clips fractures

Balls
- Less technique sensitive
- More angulation
- Bulky
- Housing fractures

Advantages
Disadvantages
Denture Retention

Attachments

Bar & clips
- The bar splints the implants
- Technique sensitive
  - Clips fractures

Balls
- Less technique sensitive
  - More angulation

Locators
- Bulky
  - Housing fractures

Pros

Tuesday 29 October 13
Denture Retention

Attachments

Bar & clips
- The bar splints the implants
- Technique sensitive
- Clips fractures

Balls
- Less technique sensitive
- More angulation

Locators
- Less bulky
- More angulation
- Less housing fractures

Advantages

Disadvantages

Pros

Options

Tuesday 29 October 13
Denture Retention

Attachments

Bar & clips
- The bar splints the implants
- Technique sensitive
- Clips fractures

Balls
- Less technique sensitive
- More angulation
- Bulky
- Housing fractures

Locators
- Less bulky
- More angulation
- Less housing fractures
- Expensive
Prosthetic Options

FP-1  
Replaces crown only

FP-2  
Replaces crown & root

FP-3  
Replaces crown, root & gingiva

RP-4  
Implant-supported

RP-5  
Tissue & implant-supported
Pros Options

RP-5 Tissue & implant-supported
Definition

Removable prostheses that are supported by both the implants and the alveolar ridge

Options

RP-5

Tissue & implant-supported
Definition

Removable prostheses that are supported by both the implants and the alveolar ridge

Indications

- Inability to place enough implants for the implant-supported denture

Pros

Options

RP-5

Tissue & implant-supported
Definition

Removable prostheses that are supported by both the implants and the alveolar ridge

Indications

- Inability to place enough implants for the implant-supported denture

Contraindications

- Young patients due to high bone resorption
**Definition**
Removable prostheses that are supported by both the implants and the alveolar ridge

**Indications**
- Inability to place enough implants for the implant-supported denture

**Contraindications**
- Young patients due to high bone resorption

**Material of choice**
Framework: - Titanium
Teeth: - Porcelain
- Acrylic
The End