Prosthetic IVa.

Fixed dentures

#### Fixed dentures

- Restore the form (and function)
- Cemented on (in the ) prepared teeth
- Can not be removed

### Bridges

Abutments (crowns on abutment teeth)

Pontic

Various size:

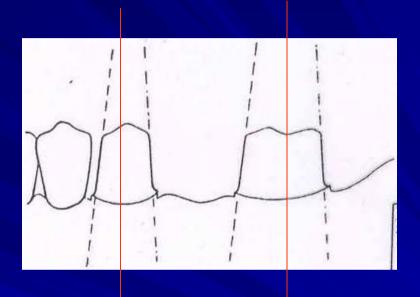
3 members bridges, 4 members bridges, 5 members... etc

The member: abutment or pontic.

### Bridges

Abutments are

Full metal crown
Facet crown
Metalceramic crown

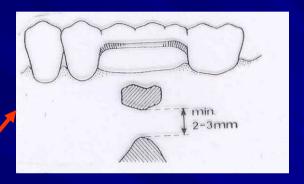


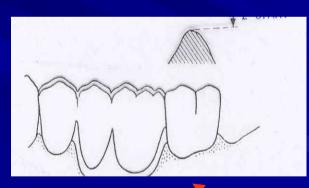
The axis must be parallel

### Bridges

Pontic

Full metal
Facet
Metalceramic

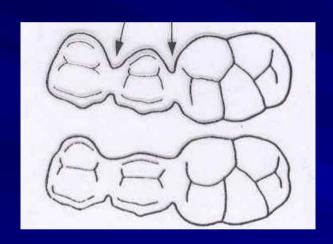


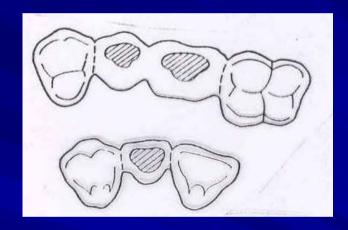


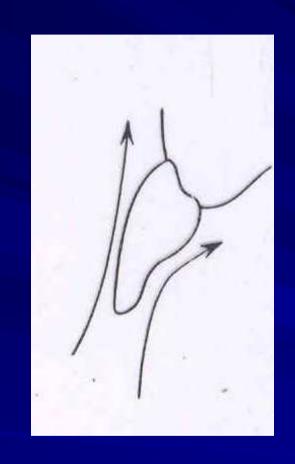
Self cleaning bridge (sanitary bridge)

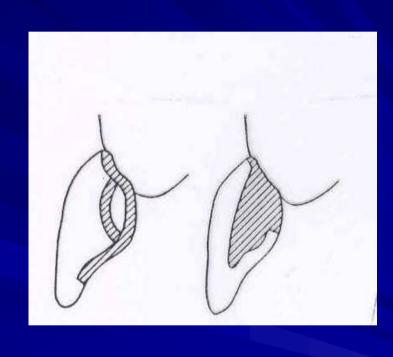
Contact pontic

Reduction - the area that is in contact with gingiva 1/3 of the occlusal size. Occlusal reduction depends on number of members from 10 - 30% reduction.









#### Preparation

- Preparation grooves
- Occlusal reduction
- Vestibular reduction
- Oral reduction
- Proximal reduction
- Finishing and polishing

#### Preparation

The long axis of each abutment tooth must be parallel.

If not the cementation would not ne possible.

## Manufacturing procedure 1.st phase in dental ofice

- Taking impression elastomers
- Antagonal impression )alginate
- Occlusal impresion bite registration (intermaxillary relationship)
- Provisional treatment

### Manufacturing procedure 1.st phase in dental lab

- Plaster model— the dental arch is made of ultrahard gypsum, the base of a stone.
- The model is divided after application of guide pins
- The antagonal model of stone
- Mounting to the articulator (simulator)

### Manufacturing procedure 1.st phase in dental lab

The wax pattern of the metal framework is manifactured

Casted (the method of lost wax)

Adapted on the model

## Manufacturing procedure 2.nd phase in dental ofice

The framework is tried out

The colour of veneering material is choosen

## Manufacturing procedure 2.nd phase in dental lab

The veneering material is applied on the framework and polymerized ot burnt (ceramics).

### Manufacturing procedure 3.rd phase in dental ofice

The denture is tried out

- Cemented
- (zinkoxidphosphate cement, glasionomer or composite)

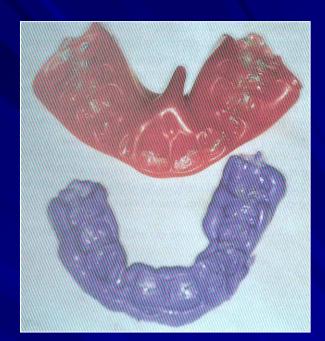


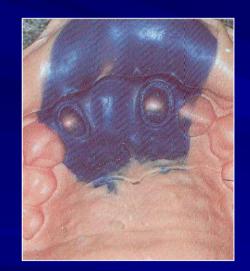












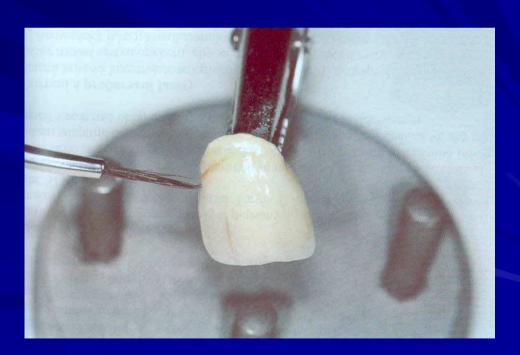












#### Temporary prosthetic treatment

- Protection of prepared teeth dentin wound
- Keeps the abutment teeth in their position
- Other reasons
  - Correction of the intermaxillary relations
  - Aesthetics
  - Disorders of TMJ

#### Material

Acrylic resin – dental lab

Special resins for direct fabrication in oral cavity

### Sequence of operations I.st phase in dental office

■ Taking the imppression using the alginate impression material (both dental arches)

Intermaxillary relations - wax

#### I.st phase in dental lab

- Pouring the impressions
- Plaster /mix of plaster and stone
- Modellation of the temporary of the wax (pink modellation wax)
- Putting of the wax pattern into the flask
- Replacement the wax with resin dought
- Polymerization

### II.nd phase in dental office

Cementation using the temporary cement

# Direct fabrication of the temporary crown or bridge

- Impression before the preparation
- Preparation
- Mixing of the special resin
- Filling of the impression
- Application os prepared teetrh the temporary is being formed
- Finishing and polishing
- Cementation using the temporary cement