

Prosthetic treatment of partial edentulism with Full Cast Dental Bridge. Indications to cast bridge denture manufacturing. Support teeth preparation. Taking impressions.

Cast bridge denture is the bridge made from metal alloy.

Advantages:

- absence of solder
- higher durability
- exact modelling
- effective in functional relation
- uniform and close touching artificial crowns to the surface of abutment
- well fixed on support teeth
- safety feet occlusal relations etc.

Disadvantages of metal DB:

- can not be used in every clinical situations
- not esthetic

Indications to prosthetic treatment of partial edentulism with cast bridge denture

- all clinical situations when in the lateral areas of dental arches there are clinical-technical conditions for creating parallelism between support teeth, fixation and stabilisation of construction.

Contraindications to prosthetic treatment of partial edentulism with cast bridge denture:

a) Local

b) General

Relative:

- young patient (till 18 – 23);
- inflammation process in apical tooth area;
- inflammation or pathological process in mucosa of the oral cavity;
- small and low crowns of support teeth if it is not possible to change it;

Absolute:

- absence of more than 3 neighboring teeth;
- III degree of pathological tooth mobility of support teeth;
- untreated or impossible to treat inflammation process in apical tooth area;
- allergic reaction to used material.

Clinical- laboratory stages of making solid-cast bridge prostheses includes:

1. Examination of the patient, diagnosis, plan of treatment, anesthesia, preparation of support teeth with preliminary retraction, getting impressions, CO and VD determination and fixation (depending on clinical case).
2. Gypsum models making, their fixing in simulator, construction the wax reproduction of FCBD component (wax pattern). Casting. Testing BD on the model.
3. Testing BD on the model. Testing BD in the oral cavity.
4. Final preparation BD.
5. Final testing and fixing FCBD in the oral cavity. Advises.

Peculiarities of support teeth preparation in the cervical tooth area:

- 1) with bevel
- 2) without bevel
- 3) mix

Possible complications in cast BD manufacturing can be divided:

- a) complications appearing during the preparation itself
- b) complications appearing straight away after tooth preparation
- c) complications appearing some time later after tooth preparation.