

# Periodontal intra bony defect treatment – PROTOCOL

**About intrabony defect treatment:**

*The therapeutic objective of periodontal treatment is the regeneration of the functional periodontal tissues. The strategy is to amplify and accelerate the effects of growth factors released in recovering bone defects. Activating the local growth factor release of autologous platelets is the most simple way to it.*

*Our method is based on Dr. Ferenc Dóri's (Semmelweis University, Hungary) research.*

**Required materials:**

- GLO PRP kit x 1
- ACD-A (1.5ml/1 GLO PRP syringe), needle for aspiration
- Local Anesthetic (Lidocaine 2%, or Ultracain)
- Surgical equipment for periodontal use
- 24G needles
- Syringes as preferred (3-5 ml for instance)
- Stasis
- Butterfly needle
- Skin disinfection
- Gloves & mask
- Table drape
- Wipes
- Glass Petri-dish

**Remember aseptic/sterile rules!**

**For the patient home care:**

- 0.2% chlorhexidine rinses twice a day for 3 weeks
- 3x 625 mg amoxicillin+clavulin acid/day for one week

**Step by step:**

1. Administer 1.5 ml ACD-A solution into GLO tube (retain sterility).
2. Withdraw 8.5 ml antecubital venous blood before surgery into GLO tube (applying maximum 40 mm Hg pressure on the arm).
3. Start the preparation of GLO PRP according to PRP preparation guide.
4. It is recommended to start the periodontal operation during the preparation process.
5. At the end of the PRP preparation take 1 ml of PRP from the GLO PRP syringe.
6. Keep the PRP solution in 4 Celsius degree refrigerator until final usage.
7. 10 minutes before final usage take the GLO PRP solution on room temperature.
8. Insert the gingival suture above the intra bony defect before application of PRP.
9. Apply the GLO PRP in convenient form into the bone defect:
  - a) PRP solution form: mix with a proper bone substitution material
  - b) PRG (PRP gel) form

**Steps of PRG preparation:**

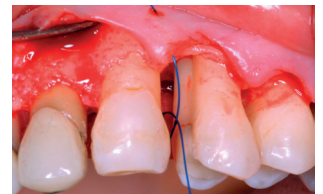
- 1) Withdraw 1 ml venous blood from the patient just before activating the PRP and after the curettage of the bony defect.
- 2) Fill 1 ml GLO PRP solution into glass Petri-dish

- 3) Administer 0.2 ml Ca-gluconate and 0.4 ml whole autogenous venous blood to GLO PRP.
- 4) Gently mix with circulating moves.
- 5) Wait 8 -10 minutes for gel formation (PRG).
- 6) Put the GLO PRG into the bony defect.
10. Fixate the sutures.
11. Recommended time for suture elimination: 2 weeks.
12. Control x-ray (in standardized way) before, at 6 months and one year after operation is recommended to evaluate and control the volume of new bone formation.

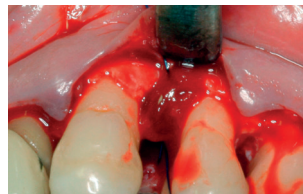
**Surgical steps**



1. Intrabony defect after cleaning



2. The first suture placed above the lesion



3. PRG placed in defect

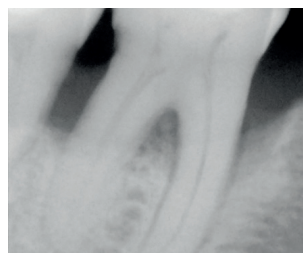


4. Sutures

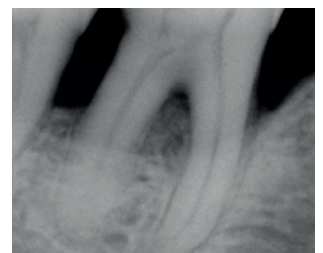
**Benefits:**

- 1) The effectivity of biologically enhanced bone regeneration is clinically proved. GLO PRP contains 5-7x more platelets compared to normal serum leading to high concentrate growth factor release locally after platelet activation.
- 2) Low price.
- 3) No risk of pathologic immune reaction after operation.
- 4) Shorter recovery period.

**Case using GLO PRP (PRG)**



a. x-ray from 46 intra bony- and furcation defect



b. Six months after treatment with GLO PRP

Further studies ongoing

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