

PRP Advantages

- It is safe as using autologous tissues.
- It promotes recovery of gum bones and gum.
- It minimizes patients' pain as promoting recovery speed.
- It prevents bleeding as stanching platelets.
- It increases the rate of adhesion of bones and decreases swelling at the time of the procedure of implant.
- PRP is effective in creating abundant growth factors, calling macrophagocytes and suppressing the proliferation of cells.
- The period of treatment is shortened as forming a solid alveolar bone even though grafting a small amount of bones.
- It prevents an inflammation as strengthening the immune system.
- It makes anti-infective effect because it contains high concentration white blood cells.
- The adhesion is excellent and flexible.
- It makes angiogenesis.
- It has the capability of osteophony.



ProKits

**FAST RECOVERY,
NATURAL SMILE!**

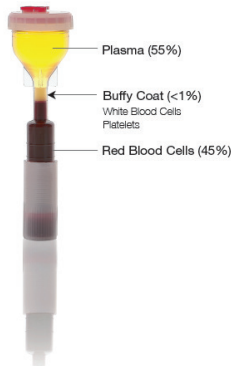
Platelet Rich Plasma Super Cell Power Bone Grafting & Fast Healing

PRP is an advanced bone and tissue growth around dental implants, which can jump start bone growth and implant adherence rapidly and cuts down the time between implant placement and affixing the permanent crown.

What is PRP

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Platelet rich plasma (PRP) is a part of blood that has been concentrated and is rich in platelets and that can be from only a small amount of blood drawn from the patient.



PRP speeds the normal healing process, helping the body produce many growth factors (PDGF, VEGF, TGF-β, EGF, FGF, IGF, and etc.) in the area of the wound in order to initiate healing and repairing itself by stimulating stem cells to regenerate new tissue.

The more growth factors released into the wound, the more stem cells stimulated to produce new host tissue. Therefore, high concentrated PRP (4-5 folds greater above baseline in general) permits the body to heal faster and more efficiently.

PRP Implant

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- PRP helps alveolar bones form more strongly and abundantly by promoting osteogenesis.
- PRP decreases pain and swelling, accelerate wound healing process.
- PRP promotes to move or divide cells required for recovering osseous tissues, and has an excellent capability to resist inflammation due to internal immunologic factors, and it is excellent in the clotting action against post-operative bleeding.
- PRP Gel is easy to fix an artificial dental root stably on the alveolar bone due to high viscosity as well as it protects wounds outside and increases curative value inside because the gel functions as a shield.
- There is no side effect because PRP is a source extracted from one's own blood.

Periodontal Disease

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PRP prevents alveolar osteitis and promotes osteogenesis because growth factors and cytokines in PRP stimulate healing of inflammatory osseous tissues and regeneration of abundant connective tissues.

1. PH of PRP

Acid Citrate Dextrose Solution A(ACD-A) used as an anticoagulant makes PRP acid in the level of 6.5-6.7 pH in which no bacterial colony may be able to grow.

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2. White Blood Cells Concentrated in PRP

A number of WBCs concentrated in PRP inhibit growth of bacteria which can be the cause of alveolar osteitis.

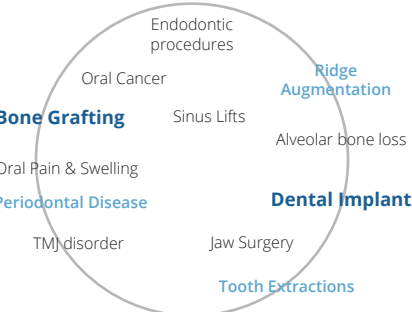
3. Promote Rapid Angiogenesis

PRP accelerates angiogenesis and production of granulation tissues in the initial stage, which makes a more oxygen-rich environment and helps suppress the growth of anaerobic bacteria.

Clinical Applications

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PRP is an effective treatment option for you if you suffer from or will be undergoing any of the following:



Tooth Extraction Socket

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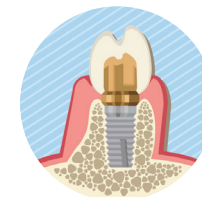
PRP decreases the incidence of dry sockets.

As a result of a random study of 117 patients (same patients in the control group), 12.8% of dry sockets are found in the group of not using PRP and 3.4% of dry sockets in the group of using PRP. Therefore, dry sockets are found about 4 times less in the group of using PRP. 1)

The rate of bone graft at the time of adding PRP is higher about double than at the time of not adding PRP. 2)

PRP Bone Augmentation

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PRP advances the period of treatment to about 3 weeks in alveolar bone enlargement.

During the alveolar bone procedure, grafted sites should not be pressured by masticatory force or temporary denture in the period of revascularization of grafted bones and cell proliferation.

Without PRP,

The grafted site should not get pressured for more than 6 weeks.

With PRP,

The grafted site should not get pressured for just about 3 weeks.