

What is PFC-FD™?

PFC-FD™ is a freeze-dried version of activated, cell-free PRP (platelet-rich plasma).

When blood vessels are damaged, platelets gather at the damaged site to stop bleeding. In doing so, they release large amounts of growth factors. These growth factors initiate the process of tissue repair. PFC-FD™ therapy uses the growth factors released by platelets to promote and accelerate the repair of hard-to-heal tissues.

The main ingredients in PFC-FD™ are

Growth factors (PDGF, TGF, VEGF, EGF, FGF, HGF, IGF, etc.)

What is Necessary for tissue repair?

Pain in the musculoskeletal system (osteoarthritis, muscle/tendonitis, muscle/tendon injury, etc.) is caused by tissue damage that is not repaired.

Pain caused by joint disease can be improved if the tissues of the joint can be repaired.

In order to repair tissue, the following three elements must be present

Cells: the building blocks that make up and maintain tissues.

Scaffolds: those that make up the three-dimensional structure. Collagen, hyaluronic acid, etc.

Liquid components: those that stimulate cells, such as growth factors and cytokines. Growth factors, cytokines, etc.

In addition to these three elements, physical stimulation is necessary to promote repair.

Purpose of treatment

The purpose of this treatment is to activate the self-healing power of the patient's own PFC-FD™.

As a result of the activation of self-repair, the following effects can be expected

Improvement (acceleration) of the speed of repair of injuries and wounds

Re-activation (reconstruction) of the healing process in areas that are difficult to heal after injury.

Bringing the stiffness and flexibility of the tissue back to its original state (change of tissue and physical properties).

Change the way pain is felt (change in receptors)

Theory of treatment

Treatment is performed based on the following theory.

Platelets are one of the blood components responsible for wound repair.

When platelet-derived components are injected into the affected area, the self-healing ability of the injected area is activated.

When self-repair is activated, new blood vessels are created, cells gather, and scaffolds, which form the basis of the three-dimensional structure, are created in the damaged area.

By applying physical load (pressure, stretching, rubbing, etc.) to the gathered cells and scaffolds, tissue with the necessary strength and physical properties for the area is created.

Disadvantages of this Treatment

- Because it relies on self-repair, the repair process may not work well.

May cause pain and inflammation (heat, redness, swelling).

Infectious diseases cannot be treated.

The treatment is not covered by social insurance, national health insurance, or other medical insurance systems.

There is a possibility of temporary pain and subcutaneous bleeding at the blood collection site and injection site.

There is a possibility of infection at the site of blood collection and injection.

Advantages of the treatment

- Natural repair is expected since self-repair is used.

Even tissues that are said to be difficult to self-repair can be repaired.

- It can be performed as many times as needed.

The majority of musculoskeletal organs such as joints, muscles, tendons, ligaments, and

bones can be treated.

Right to treatment

You are free to take or not to take the treatment.

You may choose to undergo or not undergo treatment, or you may choose to stop treatment before the blood is drawn and the PFC-FD™ is injected.

(You may choose to stop your treatment before your blood is drawn and injected with PFC-FD™ (however, once PFC-FD™ has been ordered, no refunds will be given if it is not injected).

You have the right to receive detailed information about your treatment.

Method of treatment

Blood will be drawn from a 49mL vein.

The blood will be transferred to CellSource Inc. to prepare the PFC-FD™.

It takes 3 weeks for the PFC-FD™ to be prepared.

PFC-FD™ is injected.

Post-treatment precautions

If the patient rests too long while experiencing pain, the treated area may harden and become the source of long-term pain. Continuous rehabilitation is essential after treatment whenever possible.

The injected area can be placed in the bathtub the next day.

Activities that increase blood flow (prolonged bathing, sauna, exercise, alcohol consumption, etc.) for several days after the injection may increase the pain associated with the treatment, but this increase in pain does not make a difference in the effectiveness of the treatment.

The joints are vulnerable to bacteria, so please be sure to keep the injection site clean.

Please understand that PFC-FD™ is a product that is designed to be used in the treatment of joints.

PFC-FD™ can only be provided to patients who have tested negative for infectious diseases

(HIV, HBV, HCV, syphilis, HTLV-1). If the results of the blood test indicate that the processing work cannot be performed, please pay only the cost of the blood test. (16500 yen, tax included)

In case of a positive test for infectious disease (simple test, not a confirmation of infection): An additional full examination may be requested. Additional costs and blood sampling may be required for a full examination.

Patients with malignant tumors are not accepted.

In some rare cases, we may not be able to perform the test if you are not in good physical condition or if your blood is in poor condition. In such cases, you may be asked to have your blood drawn again.

If the blood is damaged during transportation from a medical institution, it will be necessary to have the blood collected again.

If the blood sample is damaged during transportation from a medical institution, you will be required to have it re-collected. (If the storage period expires, the blood samples will be discarded (storage period is six months)).

Handling of Consent Forms

After confirming the details of the treatment, please sign the consent form and bring it with you to the blood collection.

The original consent form will be kept in the patient's medical record, but a copy will be provided upon request.

Consent Form

In order to perform PFC-FD™ therapy, please read the following

I have understood the explanation accurately during the interview.

I fully understand the contents of the above document and acknowledge that I have received an explanation of the treatment methods at your clinic, have asked questions about any doubts I may have, and have received answers from the physician in charge and agree to undergo the treatment.

I agree that if an emergency procedure is necessary during the treatment, I will be treated

accordingly.

I will not request a refund after the treatment under any circumstances.

I agree that I will not request a refund after the treatment under any circumstances.

Treatment fee

Blood collection, examination, fabrication, and injection 176,000 yen (tax included)