

OSAKA ODA CLINIC





Concept

“Regenerative medicine”
is a new choice which
makes our lives
more fruitful

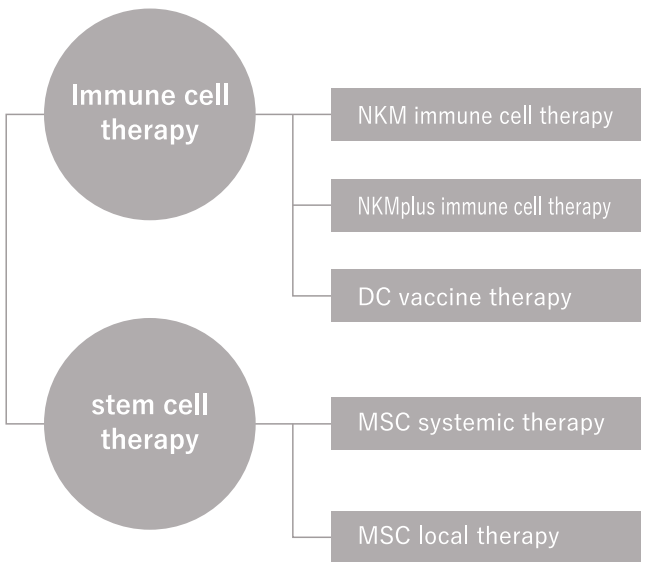
For example, cancer treatments commonly include anticancer drugs, radiation therapy, and surgical treatments, but these often come with side effects and other burdens.

On the other hand, “regenerative medicine,” which draws out what's inside your body and cures your own illness, has almost no side effects. Our hospital aims to maintain both quality of life (QOL) and treatment by utilizing regenerative medicine.

Medicine continues to evolve, with new best practices being updated every day. As a pioneer in regenerative medicine with over 20 years of clinical practice and research, our hospital provides cutting-edge medical care to everyone.



Regenerative medicine handled at Oda Clinic



Immune function

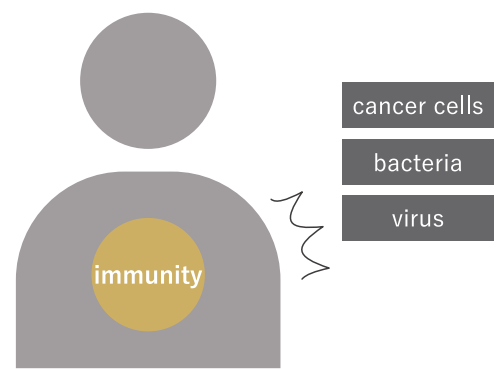
Our body has a system to protect itself called “immunity”. Every day, our bodies are exposed to various threats such as bacteria and viruses. The system that protects us from these threats is called “immunity.”

Immunity protects us from not only external threats such as bacteria and viruses but also synthesis from cancer cells and other abnormalities that have developed in the body.

Cancer cells are generated in our bodies every day. Because these cancer cells are recognized as foreign by the immune system and are removed,our bodies can maintain a healthy state without becoming cancerous.

When the virus's strength declines and it is no longer able to process cancer cells, cancer develops.

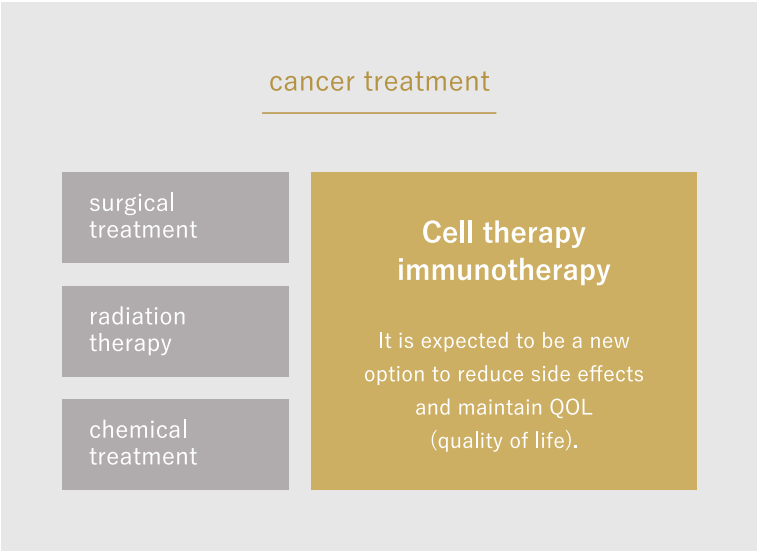
In this way, “immunity” is a system that protects us from various threats such as viruses, bacteria, and cancer cells. Therefore, the important thing to protect from bacoming cancerous is to strengthen our immune systems in daily living.

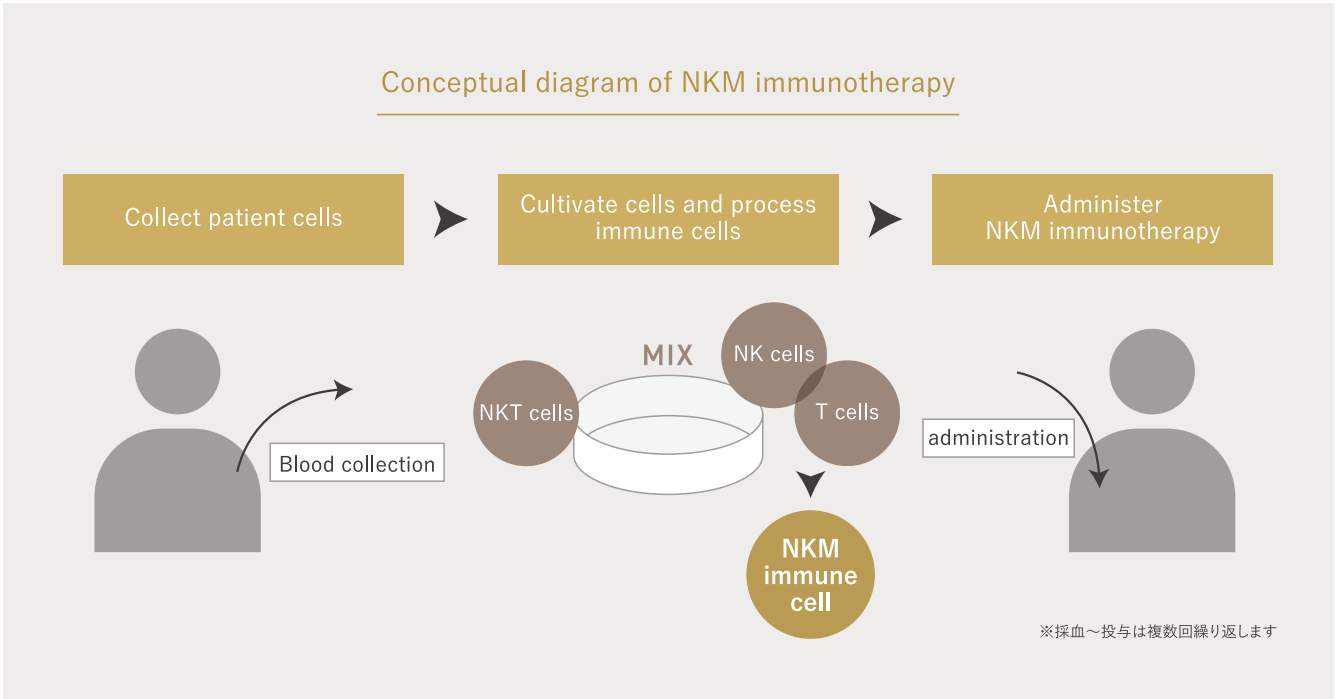
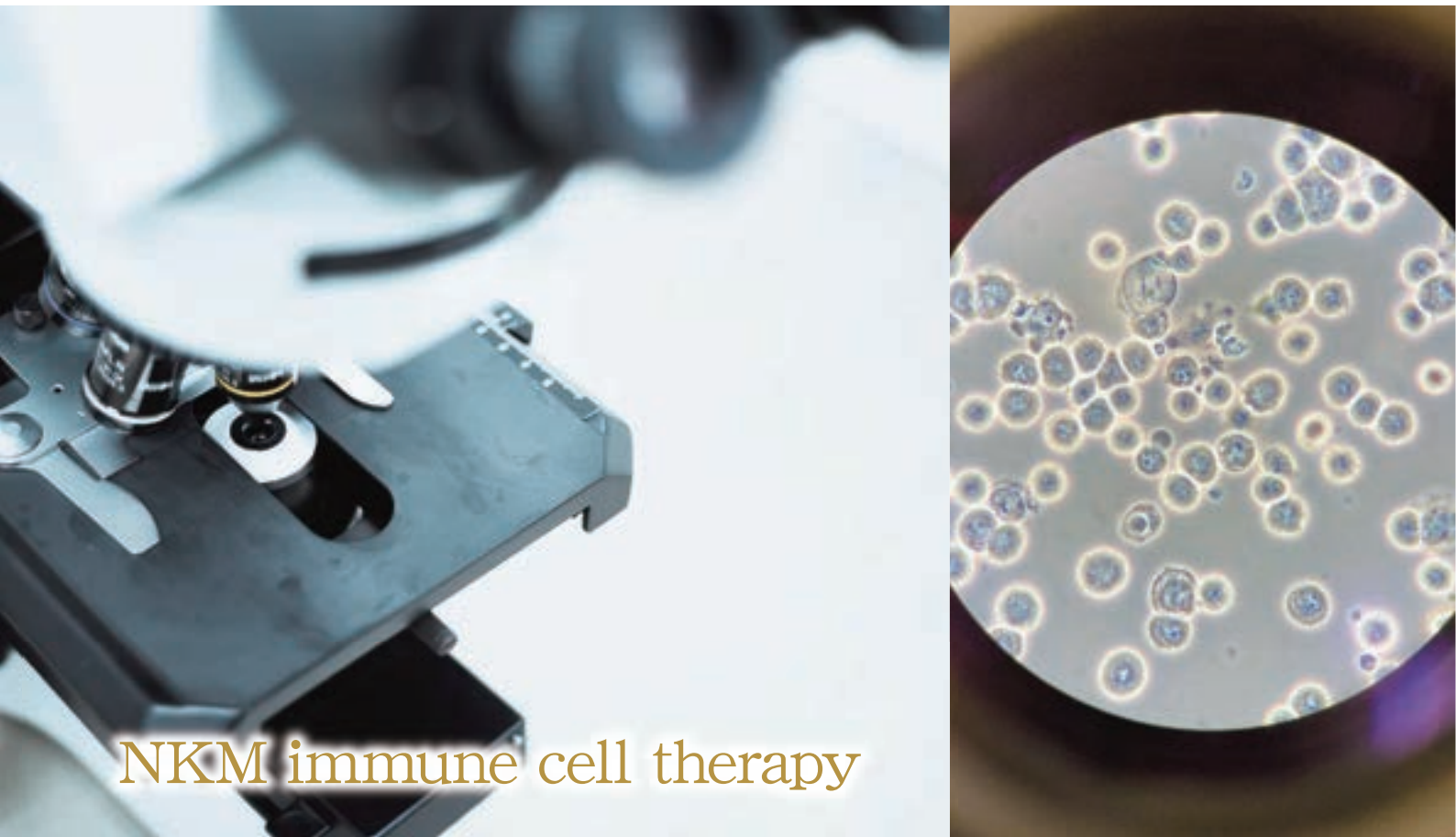


cancer immunotherapy

Immunity can be broadly divided into “natural immunity” and “acquired immunity.” natural immunity is a system that constantly monitors the body and first detects and treats abnormalities. On the other hand, acquired immunity is a system that remembers threats that have occurred once and works to prevent recurrence, and works specifically and efficiently against foreign substances that have been memorized. Supporting these systems are immune cell groups such as NK cells, NKT cells, T cells, dendritic cells, B cells, and macrophages. Cancer immunotherapy is a treatment method that uses the immune system to attack cancer, and is expected to be effective as a new member of cancer therapy. Generally, when cancer develops, there is a tendency for the number of immune cells to decrease and their activity to decline. Immunotherapy is a therapy, first we removed the immune cells from the patient's blood, and next increased their numbers, and finally returned to the body in an activated state.

This strengthins and improves the body's natural immune system and kills cancer cells. Additionally, because this therapy has an extremely low risk of side effects, it can be used in combination with other cancer treatments.





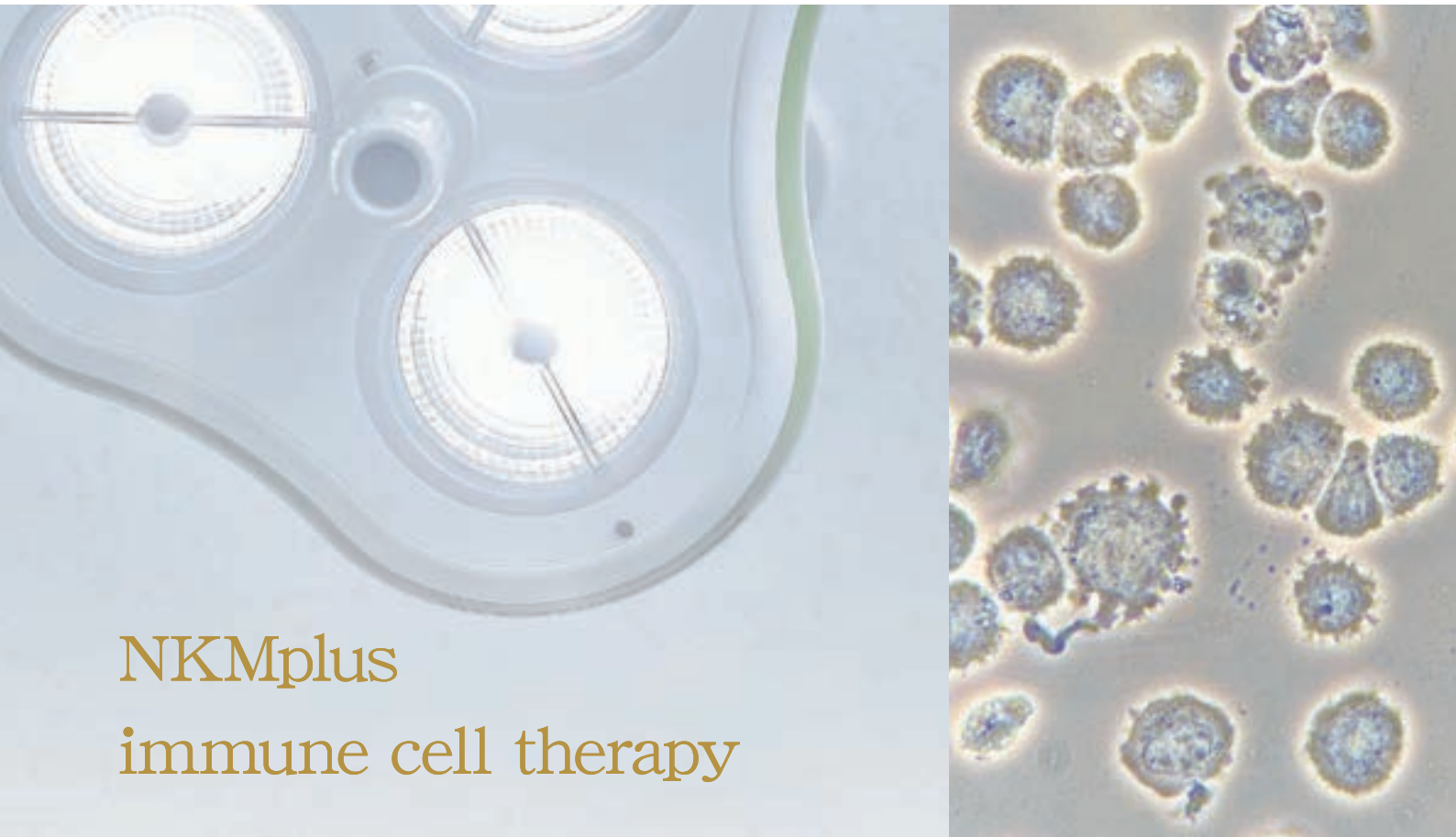
NKM immune cell therapy is a unique immunotherapy developed at Oda Clinic.

In general immunotherapy, one type of cell, such as natural killer cells (NK cells), is cultured, but in NKM immune cell therapy, NK cells are the main focus, and NKT cells and T cells are cultured. By mixing them in the appropriate proportions, you can bring out the characteristics of each.

This therapy improves innate immunity by first increasing the number of NK cells and NKT cells, thereby strengthening the first line of defense, which is the foundation of immunity. In addition, incorporation of T cells is expected to improve acquired immunity, thereby preventing recurrence of foreign substances that have once entered the body. T cells not only improve acquired immunity, but also have the ability to proliferate and activate various immune cells, so by culturing them in combination with NK cells, it is possible to combine both innate and acquired immunity. It also enables higher quality cell therapy.

Features of NKM immune cell therapy

- Customized culture tailored to the patient's cells
- 副作用の心配がない
- Due to constant immunity improvement through continuous administration, Expected to be effective in preventing cancer recurrence and metastasis
- Maintain a high quality of life



NKMplus immune cell therapy

Many cancer cells are produced in our bodies every day. On the other hand, the human body is equipped with an excellent immune system, which normally eliminates cancer cells one after another.

However, even this excellent immune system has its limits. Immune cells that are exposed to various stresses such as aging, illness, and smoking gradually become unable to destroy cancer cells. The cancer cells that accumulate in this way will eventually form a tumor and cause cancer.

These stresses can also change the cells themselves, one of which is the exposure of specific antigens on the cell surface. These antigens serve as landmarks for cells to communicate with each other. Each cell is equipped with a sensor that recognizes antigens, and the immune response is regulated by this sensor.

The antigens involved in these immune responses are called “immune checkpoint molecules.” Recognizing these molecules promotes immunosuppression, which can lead to autoimmune diseases (overactive immune responses that destroy friendly cells).

This prevents the occurrence of the phenomenon of attacks. Cancer cells, on the other hand, take advantage of this function and escape attacks from the immune system. When cancer cells encounter immune cells with specific antigens, they suppress the immune cells' ability to attack through sensors. In 1992, Professor Honjo of Kyoto University discovered a new immune checkpoint molecule and named it “PD-1.” This discovery later evolved into the development of an immune checkpoint inhibitor called Opdivo, and Professor Honjo was awarded the 2018 Nobel Prize in Medicine or Physiology in recognition of his accomplishments.

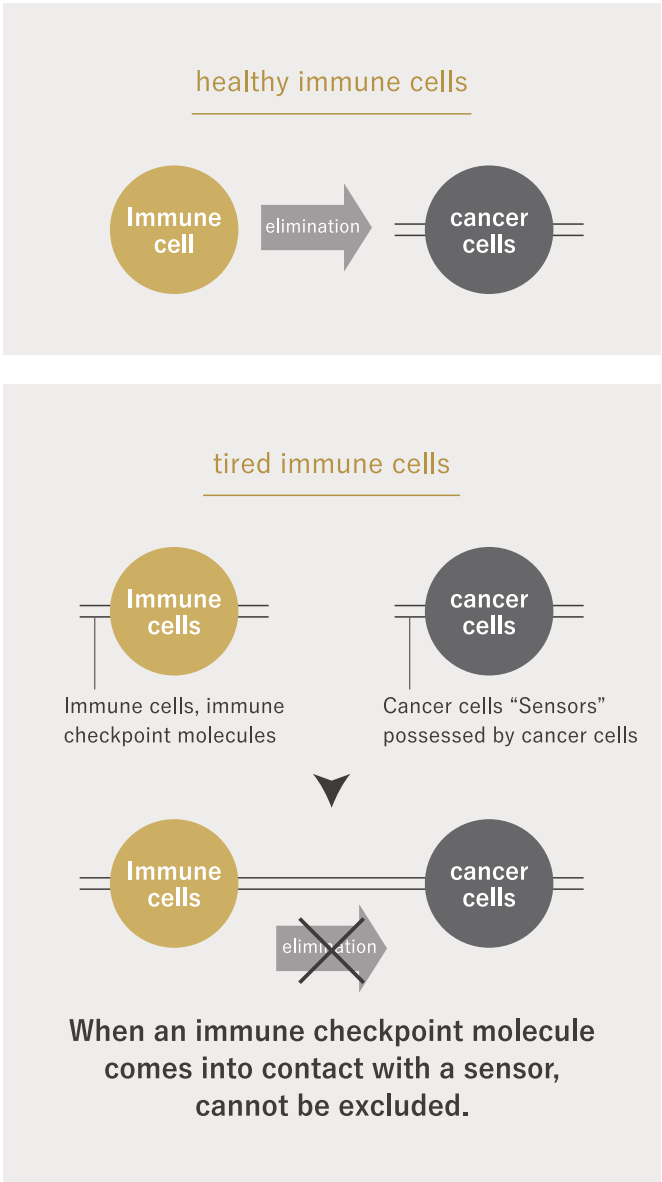
Opdivo is also called an immune checkpoint inhibitor.

It specifically binds to immune checkpoint molecules in cells and has the effect of inhibiting cancer-induced immunosuppression. Furthermore, while these immune checkpoint inhibitors are extremely effective, there are concerns about the risk of side effects such as autoimmune diseases.

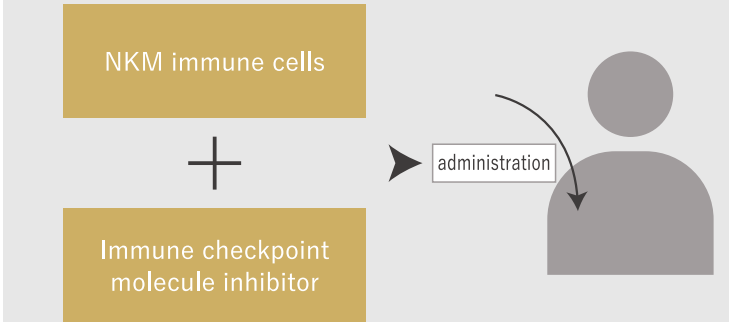
“NKM plus immune cell therapy” is a treatment method that has undergone special processing on NKM immune cell therapy to further enhance its anticancer effects.

Up until now, there have been many reports that immune cells obtained from the blood of cancer patients have already become suppressed due to repeated encounters with cancer cells. Therefore, our hospital has developed a new immune cell therapy to allow such patients to receive sufficient immunotherapy.

In this therapy, immune cells cultivated from the patient's blood are modified with immune checkpoint inhibitors to relieve the immune suppression state. Furthermore, by centrifuging the cells immediately before administration, we were able to wash away excess drug and successfully eliminate the risk of drug-induced side effects. Through these treatments, it is possible to obtain cells with strong anticancer effects even from cells that are already in an immunosuppressed state.



Conceptual diagram of NKMplus immune cell therapy



Features of NKMplus immune cell therapy

- Even better anticancer effects than NKM immune cell therapy
- Minimize the risk of side effects with the minimum amount of medicine necessary

樹状細胞ワクチン療法

Dendritic cells (commonly known as DCs) are a group of cells that support the immune system, and have the role of transmitting the characteristics of foreign substances that enter the body to other cells. It is widely distributed in the body through the bloodstream, and picks up various antigens as it circulates throughout the body. The antigens taken up in this way are fragmented within dendritic cells and eventually presented to lymphocytes as surface antigens.

Dendritic cells have taken up various antigens and matured have a strong ability to display antigens, and also have a function of activating the immune response of the lymphoid cells and plays the role of a control tower for the immune response.

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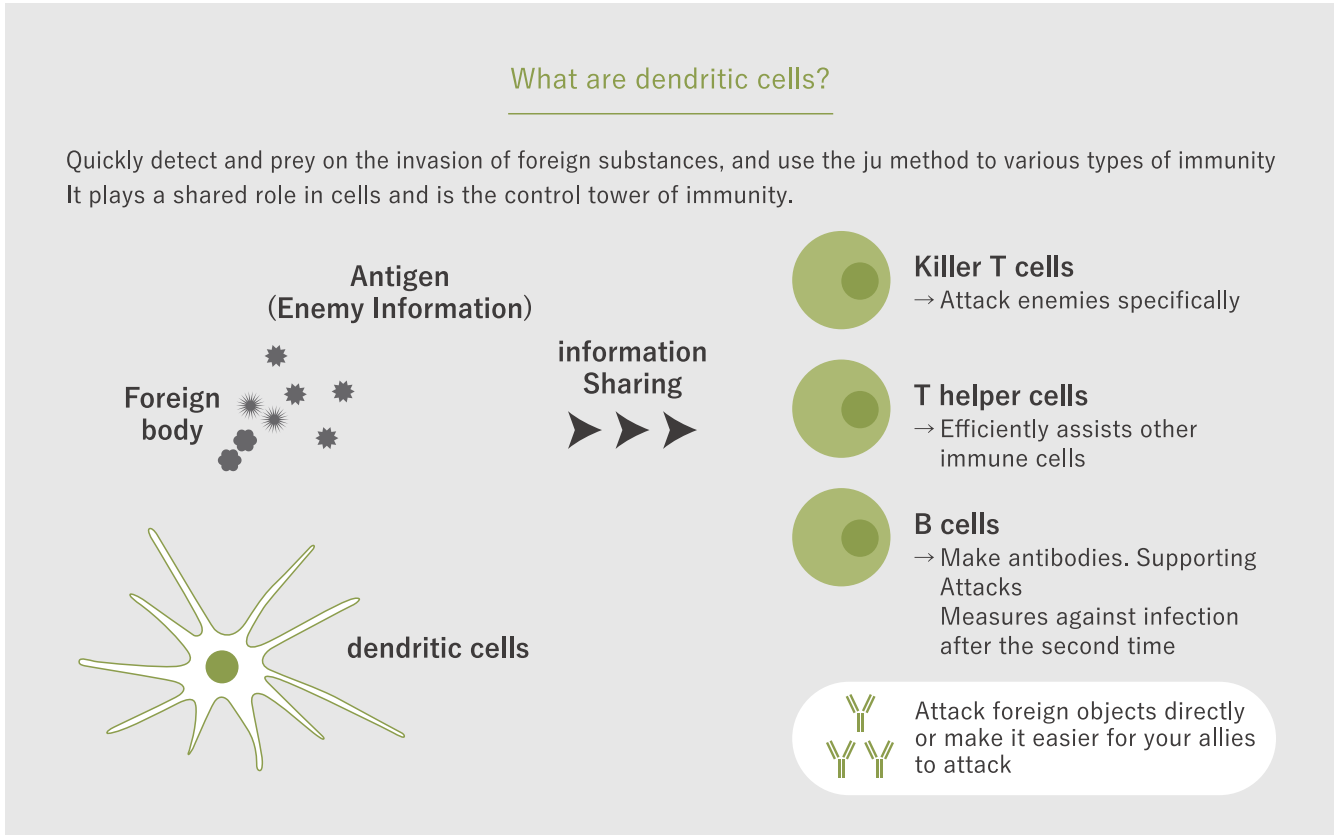
In this therapy, dendritic cells are separated from the patient's blood and artificially store cancer antigens. Normally, dendritic cells can only take in antigens that already exist in the body. However, this therapy uses artificial antigens to intentionally incorporate antigens, making it possible to create dendritic cells that specifically present cancer antigens. In addition, synergistic effects can be expected when used in combination with other treatments, and it is attracting attention for cancer prevention and treatment.



At Oda Clinic, we not only carry out “clinical” operations, in which we administer cells to patients, but also “culture”, which involves growing the collected cells.

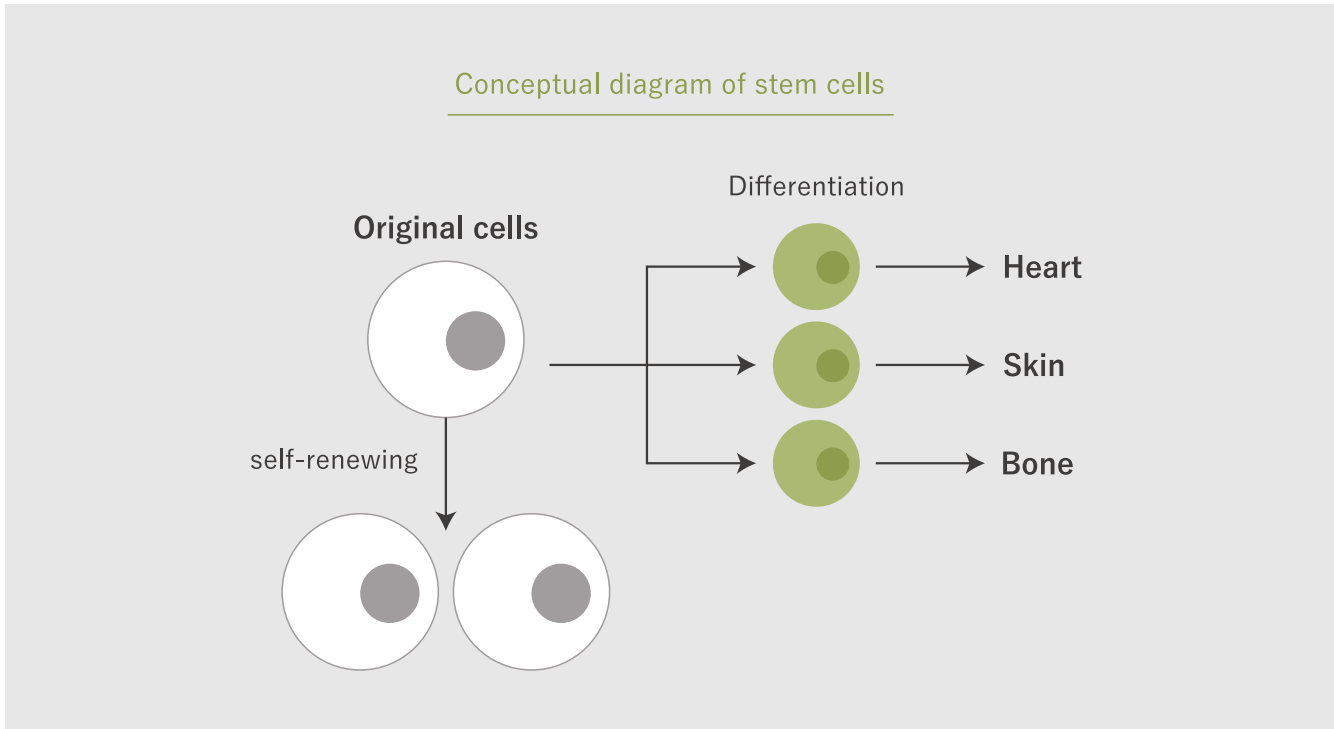
Since cells can be cultured more quickly than in conjunction with external tissues, cell deterioration can be prevented and treatment can proceed efficiently. In addition, the Ishinkai Regenerative Medicine Research Institute is equipped with the latest equipment and conducts research and practice on cell therapy and other fields on a daily basis.

We also conduct joint research with universities and hospitals, contributing to the advancement of regenerative medicine in Japan as a whole.



Characteristics of stem cells

Our bodies are made up of approximately 60 trillion cells, and each cell has a different role. While there are cells that constitute and function in tissues such as the skin and heart, there are also original cells that can change (differentiate) into cells with these functions. These cells are called “stem cells,” and they can produce cells identical to themselves, and they play an active role in keeping our bodies young.

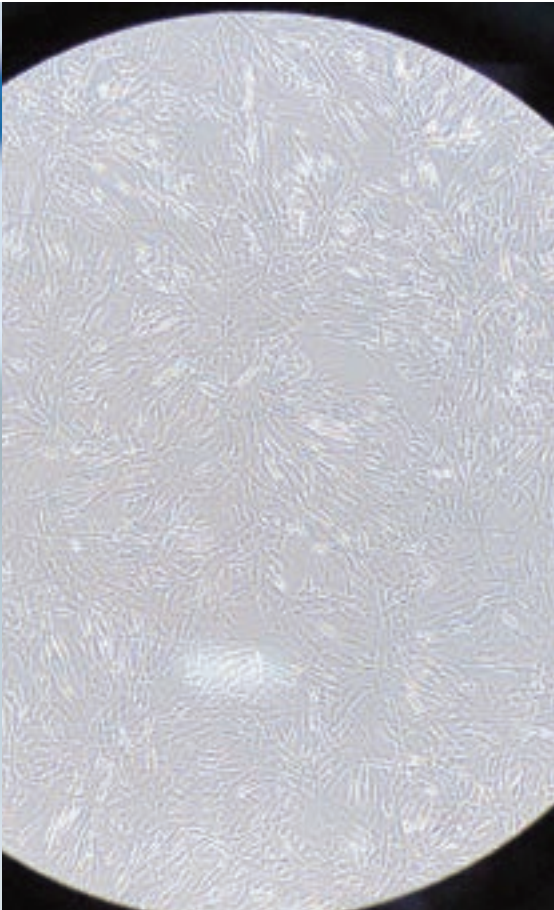


In recent years, research has been actively conducted to apply these properties of stem cells to medical treatments, and many facilities are actually implementing them as treatments. By using the self-renewal function of stem cells, it is possible to exponentially multiply small amounts of cells collected from fat, bone marrow, teeth, etc. By transplanting the stem cells obtained through this process, it is possible to expect regeneration of the transplanted into areas damaged by disease or injury.

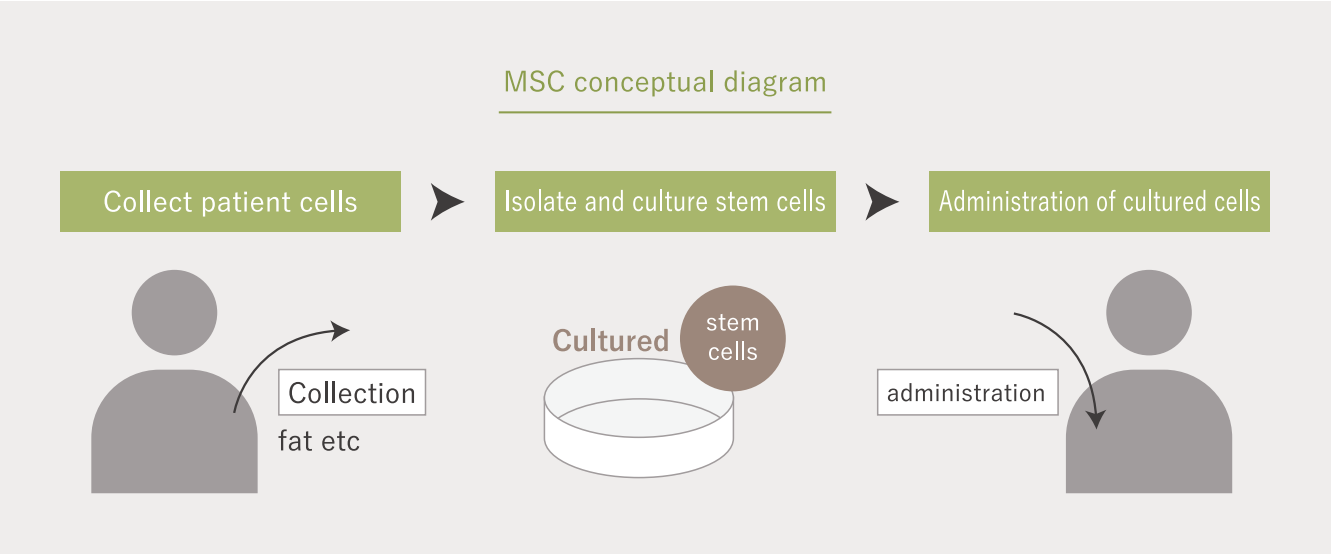
Types of stem cell therapy		
MSC mesenchymal stem cells	It has been confirmed to be highly safe and has already been used in various ways both domestically and internationally. Used in medical applications	There are restrictions on where to culture as cells that have progressed to a certain degree of differentiation are used.
ES cell embryonic stem cell	Almost unlimited ability to differentiate into cells of various tissues and organs have the ability to multiply	Ethical issues associated with using fertilized eggs are an issue
iPS cell population pluripotent stem cells	Has the ability to differentiate into cells of various tissues and organs and the ability to proliferate almost indefinitely	Some of the genes introduced when creating iPS cells have the effect of inducing cancer cells, and it has been pointed out that there is a risk of tumor formation.

There are three main types of stem cell therapy, but in current clinical practice, the main What is being utilized is MSC. Both ES cells and iPS cells are expected to have medical applications, such as regenerating cells lost due to illness or injury, but there are challenges before they can be used clinically.

MSC (mesenchymal stem cells)

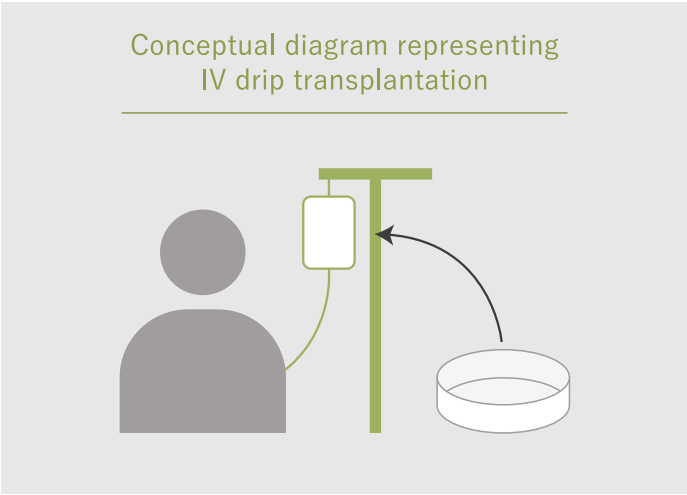


Stem cells are isolated from tissues such as fat, bone marrow, and teeth and can be differentiated into fat, bone, nerves, etc. Unlike IPS cells and ES cells, cells that have differentiated to a certain degree are used, so there are restrictions on where they can be differentiated. On the other hand, it has been confirmed to be highly safe and is already being used in a variety of medical applications both domestically and internationally. Our hospital uses this stem cell treatment method.



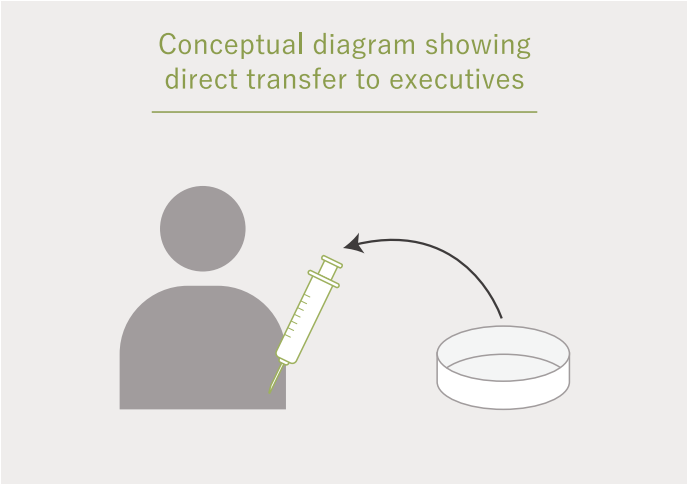
MSC (mesenchymal stem cells)

Stem cells are separated from the patient's adipose tissue, cultured to increase their number, and then injected into the patient's vein. Various factors released from mesenchymal stem cells have the effect of alleviating inflammation and regulating immunity, and It is expected to have the effect of regulating immune function and bringing it back to its normal state.



MSC local therapy

Stem cells are separated from the patient's adipose tissue, expanded in culture, and transplanted directly into the patient's affected area. The differentiation of transplanted mesenchymal stem cells promotes regeneration, and at the same time, the anti-inflammatory ability of stem cells is expected to alleviate pain in the affected area.



Information about cell banks

Human cells undergo various changes as we age. In the cell bank business provided by our hospital, we use the latest equipment to store cells for a long period of time. You can save it before. Preserve cells until 10 or 20 years into the future, Why not use it for your future health?

In our cell bank business, we can collect and store mesenchymal stem cells from the patient's own abdominal fat tissue. Mesenchymal stem cells are one of the most studied cells in the therapeutic field, and in addition to their excellent self-propagation and differentiation abilities, the cytokines and various growth factors released by stem cells themselves have the ability to stimulate specific tissues and cells. It has the role of working on and adjusting its activity. Because of these properties, in recent years it has been highly effective in many treatments, including atopic dermatitis and spinal injuries.

On the other hand, open stem cells are known to suffer from age-related deterioration and cell senescence. In order to solve these problems, our hospital has started a long-term cell cryopreservation project using liquid nitrogen. In this project, we can provide a semi-permanent supply of cells by cryopreserving the primary culture of collected cells.

"Usually, liquid nitrogen tanks used in research, have a small capacity, so it is difficult to preserve multiple cell lines. The liquid nitrogen tank used for this project can hold up to 49,392 frozen cells. This allows for long-term storage of frozen cells in sufficient numbers for future use.

In addition, for cell management,we installed automation system manufactured by the American company Books for the first time inJapan, and we have succeeded in fully automating cell storage management.

As research progresses further, stem cells can be used to treat a wider range of diseases.

It is expected that the effectiveness will be revealed. Today is the day when you are the youngest, why don't you preserve your young helthy cells for your future in case of illness?



院長 杉山高秀
Takahide Sugiyama

Director Profile Takahide Sugiyama

- 1981
Graduated from Kindai University School of Medicine
- 1991
University of Southern California Urology Study Abroad
- 2005
Associate Professor, Department of Urology,
Kindai University School of Medicine
- 2006
Yoshihide Medical Corporation
Takaishi Fujii Hospital Vice Director
- 2014
Yoshihide Medical Corporation
Tsukuno Fujii Clinic Director
- 2023
Ishinkai Medical Corporation
Osaka Oda Clinic Director

Specialized area

General urology, sexual dysfunction, urinary function
geriatrics general immunology



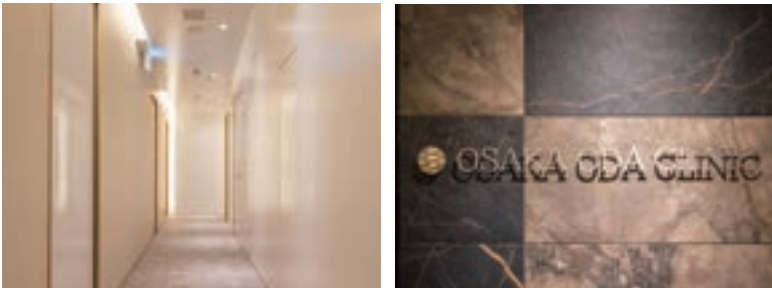
医進会再生医療研究所

Strengths 臨床・培養・研究の機能を併せ持つクリニック

Osaka 大阪



医療法人社団 医進会
大阪小田クリニック
TEL. 06-6676-8336
FAX. 06-6676-8337
URL <https://www.ishinkai-ooc.net/>



診察時間
10:00-18:00
休診日
日曜日・祝日、土曜日(不定休)



〒530-0003
大阪市北区堂島2-2-2
近鉄堂島ビルB1F



アクセス
大阪メトロ四つ橋線「西梅田駅」……徒歩3分
JR東西線「北新地駅」……徒歩4分
JR大阪環状線「大阪駅」……徒歩7分
阪神本線「梅田駅」……徒歩7分

Ginza 銀座



医療法人社団 医進会
銀座小田クリニック
TEL. 03-3528-6887
FAX. 03-3528-6885
URL <https://ishinkai-goc.net/>

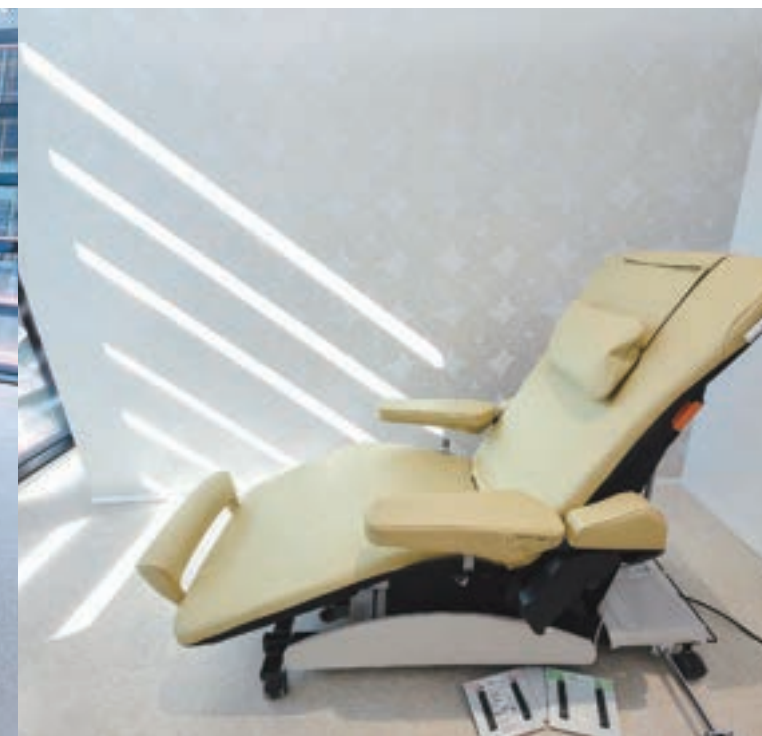
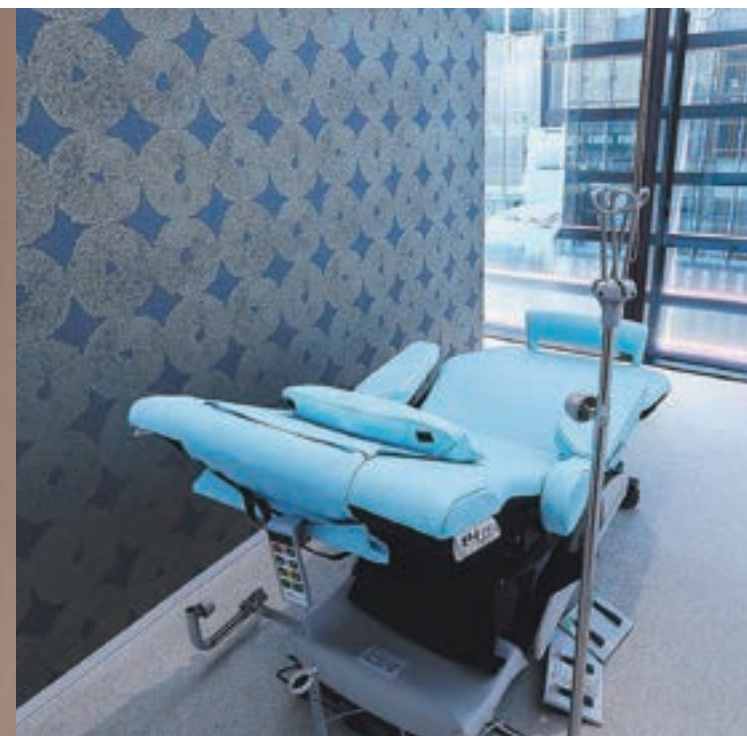
診察時間
10:00-18:00
休診日
土曜日・日曜日・祝日
〒104-0061
東京都中央区銀座2-6-12 大倉本館11F

Shinjuku 新宿



医療法人社団 医進会
小田クリニック
TEL. 03-5273-0770
FAX. 03-5273-0780
URL <https://www.ishinkai-mc.net/>

診察時間
9:00-18:00
休診日
土曜日・日曜日・祝日
※木曜日は一般内科・消化器科のみとなります。
午後の診療は16:30までとなります。
※金曜日は内視鏡検査と検診のみとなります。
午後の診療は16:00までとなります。
〒169-0072
東京都新宿区大久保1-11-3 大東ビル2F

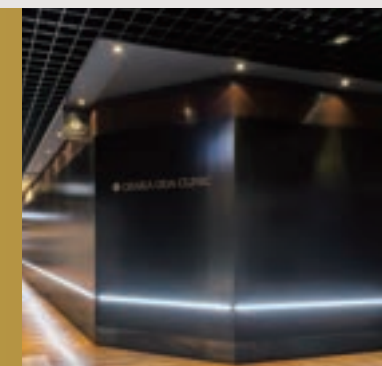


気軽に健康相談ができる場所 それが大阪小田クリニックです



“You cannot provide good medical care unless you have a heart-to-heart connection with the patient.”
At Oda Clinic, we aim to care for the mind and body by deducing what patients are currently looking for based on this way of thinking.

First and foremost, we value dialogue with patients.
By combining regenerative medicine with early detection of diseases, It demonstrates its true power as a “preventive treatment”.
Please feel free to visit our clinic even if you do not have any serious symptoms such as injury or illness.
Oda Clinic is not just a place to treat injuries and illnesses;
As your “health consultation center”, we are always waiting for your visit. Thank you.



医療法人社団 医進会

大阪小田クリニック

第II種再生医療提供計画等 提供許可取得済



〒530-0003

大阪市北区堂島2-2-2 近鉄堂島ビルB1F

TEL.06-6676-8336

- ◆ 大阪メトロ四つ橋線「西梅田駅」徒歩約3分
- ◆ JR東西線「北新地駅」徒歩約4分
- ◆ JR大阪環状線「大阪駅」徒歩約7分
- ◆ 阪神本線「梅田駅」徒歩約7分

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