

Dendritic Cell Therapy

DCT

Overcome
cancer
from
within



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Welcome to Immucura

Immucura was created in 2014 to find the best possible cancer treatments. Today we are proud to offer cancer sufferers, like you, access to the most effective integrative cancer treatments, developed and administered by highly respected medical experts who are leaders within their field.



Johannes Schumacher
CEO, Immucura

Building upon Nobel Prize winning Dendritic Cell Therapy, Immucura has developed an additional treatment, Immune Memory Transmitter or IMT, which builds a strong immune system and assists DCT.

Rather than blind you with science, this booklet outlines in simple terms how DCT and IMT work and why we - and a growing number of medical professionals - feel that immunotherapy is the future of cancer treatment.

Best Wishes

Johannes Schumacher
CEO, Immucura Limited

DCT : Dendritic Cell Therapy

The last two Nobel prizes in Physiology or Medicine were granted to breakthroughs in Immunotherapy (2011 and 2018), of which the most significant and now one of the most important treatments for cancer, is Dendritic Cell Therapy.

What are dendritic cells?

Dendritic cells (DC) are antigen-presenting cells that can communicate with T cells both directly and indirectly¹, regulating our adaptive immune responses against cancer cells and tumours.

In simple terms, dendritic cells help the immune system recognise and attack abnormal cells, like cancer cells. The purpose of dendritic cell therapy is to mature and prepare the dendritic cells so that they will recognise cancer cells and activate specific immune cells – natural killer cells (NK-T cells) and T cells – to destroy them.

Dendritic cells are unique in their versatility and capacity to control, initiate and regulate the immune system, both adaptive (specific) and innate (non-specific) immune responses.

In substance, dendritic cells are the most potent antigen-presenting cells, capable of activating both naive and memory immune responses, and maintaining the delicate balance between immunity and tolerance².

¹ "Regulatory Dendritic Cell, T Cell Tolerance, and Dendritic Cell Therapy for Immunologic Disease" by Sara Ness, Shiming Lin and John R. Gordon; Front Immunol. 2021; 12: 633436; published on 10 March 2021
² "Directing dendritic cell immunotherapy towards successful cancer treatment" by Rachel Lubong Sabado and Nina Bhardwaj; PMC US National Library of Medicine – National Institutes of Health; PMID: PMC2867472; published on 1 January 2021

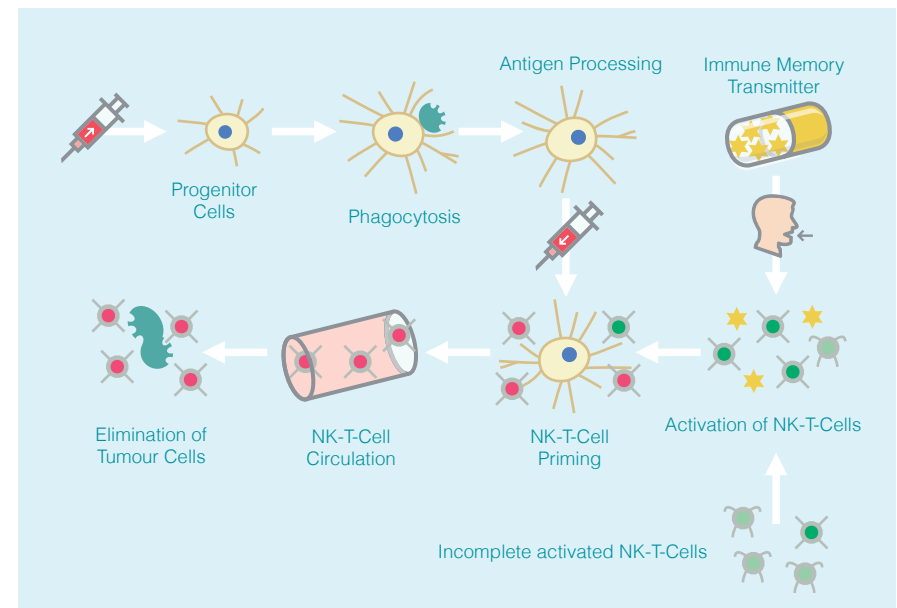
How does DCT work?

Traditional cancer treatments tend to treat the symptoms, but not the cause. This is where immunotherapy is different and why it is acknowledged to be the future in the fight against cancer. With chemotherapy, radiation therapy and surgery, the onus is on treating tumours and metastasis, whereas Dendritic Cell Therapy (DCT) naturally boosts the body's own immune system, by giving it the tools to fight the cancer. Dendritic cells act as instructor cells. They boost the immune system and provide the natural killer and T cells (NK-T cells) with information necessary to recognise the cancer cells - which had previously remained hidden to the immune system - in order to destroy them cell by cell.

Who is eligible for DCT?

Dendritic Cell Therapy can be effective in any cancer that forms tissue structures such as tumours, carcino-

Activated Dendritic Cell (CD 86+) mediated Immune Response



mas, melanomas and sarcomas. This makes every cancer patient eligible - apart from certain patients diagnosed with leukaemia (we utilise separate cell base immunotherapy for these types). It is a natural treatment that can be used in conjunction with, or separately from, other cancer treatments.

As opposed to chemotherapy, cell-based immunotherapy is a primary therapy, and not just an adjunctive therapy. To determine the best strategy, we are happy to discuss your individual situation based on your medical reports.

Benefits of DCT

- Dendritic Cell Therapy is minimally-invasive with no chemicals, radiation nor surgeries
- It is free of unwanted side-effects as it uses the body's natural healing system
- It can be more effective than conventional therapies as it treats the tumour directly and not just the symptoms
- It is cost effective compared to traditional cancer treatments
- The treatment is pain free



Dendritic Cell Therapy is one of the most advanced cancer treatments in the world, and can achieve up to three to five times better results than conventional cancer treatments.³

IMT : Immune Memory Transmitter

As Les Goldman, the Senior Vice President of NWBO says, "The strongest weapon that we have to deal with any invasion in our body is our immune system."

When it comes to DCT, what really makes the difference is the patient's blood count. There are certain specific immune cells (e.g. CD3, CD4, CD8, CD16, CD19, CD56) that are rarely paid attention to, but for DCT they are essential key indicators – especially for those with suppressed immune systems. Immucura not only measures those specific blood counts, but applies certain natural supplements to adjust the blood markers to improve the immune system and in so doing give DCT a better base to act on.

The stronger the immune system, the better the results

Imagine a building without foundations: it may stand, but it will be a weak structure. The same goes for your immune system. Immunotherapy serums can activate your immune cells, but if the immune system is not in good shape they will not perform as well.

³ "Effectivity of Long Antigen Exposition Dendritic Cell Therapy in the Palliative Treatment of Pancreatic Cancer" by F. Gansauge, B. Poch, R. Klee and M. Schwarz; Current Medicinal Chemistry, pages 4827-4835; published in 2013

IMT: Immune Memory Transmitter has been found to be the critical piece of the puzzle to the functioning of Immunotherapy



Immucura has introduced IMT (Immune Memory Transmitter) in order to create a strong immune system, which boosts the cells and assists the treatment with DCT.

What is IMT?

IMT or Immune Memory Transmitters are the messenger proteins produced by Immunological Memory Cells, currently represented by T and B lymphocytes and natural killer (NK) cells, which determine a rapid and effective response against a second encounter with the same antigen⁴.

⁴ "Immunological memory cells" by Weronika Ratajczak, Paulina Niedźwiedzka-Rystwej, Beata Tokarz-Deptuła and Wiesław Deptuła; Cent Eur J. Immunol. 2021, 43 (2): 194-203; published on 30 June 2018



They transfer immunity from activated T lymphocytes (a form of white blood cells) to virgin lymphocytes. T lymphocytes have the ability of a quick response following stimulation with viral antigens. Immunological memory is a unique property of the immune system as it can “store” information about a stimulus and can mount an effective response when the stimulus is encountered again⁵.

IMT has an immune regulating effect, causing a number of changes in immune cells which can increase activity of white blood cells and can also downregulate hyperactive immune cells which can otherwise lead to allergic reactions and autoimmune diseases.

This crucial IMT treatment combined with DCT is only available at Immucura.

How DCT and IMT work

Everyone has cancer cells, which are naturally controlled by the immune system through the response of T, B and NK cells. Cancer develops when the immune system is compromised and cannot fight the cancer cells. In order to strengthen the immune system, Immucura uses IMT which rebuilds it and works with Dendritic Cell Therapy.

⁵ "Immunological memory cells" by Weronika Ratajczak, Paulina Niedźwiedzka-Rystwej, Beata Tokarz-Deptuła and Wiesław Deptuła; Cent Eur J. Immunol. 2021, 43 (2): 194-203; published on 30 June 2018

The step by step treatment to fight cancer:



Step 1

Consultation with our immunology specialists who will discuss your case



Step 2

Blood is drawn and sent to the laboratory to develop a bespoke DCT vaccine



Step 3 - optional

Integrative supplementary treatments like nutrition, emotional support, physiotherapy



Step 4

A comprehensive blood test is done



Step 5

A tailored IMT is prepared, based on the patient's personal requirements after results are obtained



Step 6

The bespoke Dendritic Cells serum is administered and will remain active for 6 to 9 months



Step 7

The patient receives IMT

How long will DCT take?

After a comprehensive blood test, the IMTs are tailored according to the patient's own requirements. It takes a couple of weeks for the results of the blood test to return. Meanwhile the DCT action has commenced.

Between 9 to 14 days after the initial blood draw, the DCT serum is administered. The IMT is then delivered to the patient. The active DCT is effective for 6 to 9 months, where the dendritic cells instruct the immune system and enable the body to fight cancer.

How much does DCT cost?

All cancer treatment is expensive, but DCT is much more cost effective than traditional methods.

Please request an individual proposal according to your health condition.

“My mother is doing great and the DCT treatment saved her life. The results of the first scan were stunning. Nearly all the metastases in her body, liver, lungs, lymph nodes and bone disappeared. She did not combine the DCT treatment with any other therapies so we know for sure it worked fantastic!”



Emma*
Adenocarcinoma
and Bladder tumour
DCT & IMT

*Name changed to respect
the patient's privacy



Immucura

Immucura Limited is committed to develop a leadership position in advanced therapies that will improve the lives and survival rate of people with cancer.

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