

ayus

Certified INUSpheresis®
Center Basel

+41 61 381 85 85
basel@ayus.group
www.ayus.group

This is how blood plasma purification therapy works

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Preliminary consultation with detailed patient and blood examination

Prior to INUSpheresis® therapy, patients and their blood are thoroughly examined to rule out acute illnesses. When clarifying the patient's medical history (anamnesis), special care is taken to ensure that no gastrointestinal diseases, allergies, seizure disorders, cardiovascular diseases, bleeding tendencies or infections are present and that sufficient own blood components are available.

During the medical consultation, patients are informed in detail about the therapy procedure, the mechanism of action, the filters used and expected effects, as well as possible side effects and dangers.



More about the clinical pictures

Severe physical and psychological stress caused by conventional therapies and their side effects, great suffering, repeatedly disappointed hope for a cure; this is what patients with chronic inflammation and autoimmune diseases are confronted with.
In these disease patterns, inflammatory processes in the body represent an essential link.

Blood and blood components

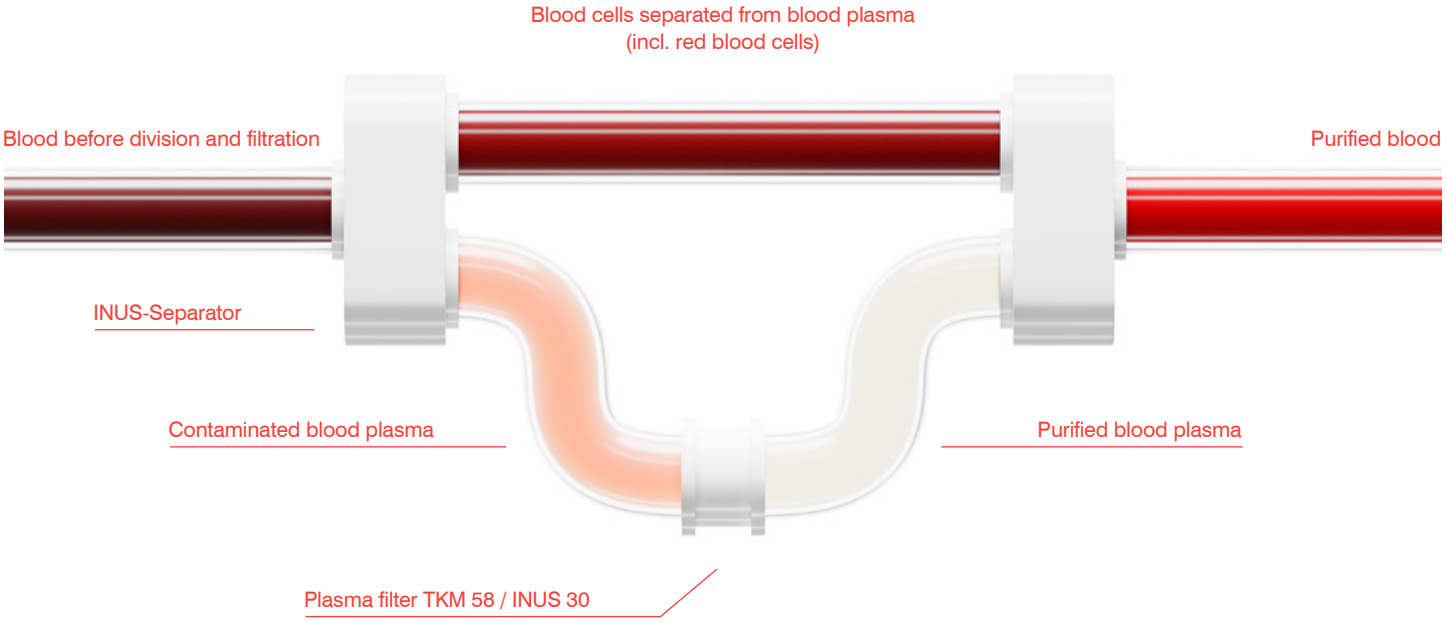
Human whole blood consists of 45% solid components (red and white blood cells and platelets) and 55% blood plasma.
The blood plasma serves as a transport medium for glucose (sugar), lipids (fats), proteins (protein), hormones, coagulation factors and dissolved gases. Centrifugation in INUSpheresis® therapy allows the solid components of the blood to be separated from the plasma and purified.

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INUSpheresis® blood plasma purification

The INUSpheresis® process takes place on an outpatient basis in our practice and lasts about 2 to 3 hours. You will lie relaxed on a couch.

First, two infusion lines are placed in the crook of your arm, one on the left and one on the right. The blood now flows to the machine's disposable filter system, where it is cleaned and returned to the other arm. The therapy itself can be performed gently and is painless.



First step, the blood separation

The blood plasma is separated from the blood cells by the primary filter and passed through a secondary filter.

Second step the plasma cleaning

The separated blood plasma is then passed through the secondary filter, which has been adapted to your treatment goals, and pathogenic substances are filtered out. What exactly is filtered out of the blood plasma depends on the filter, its pore size and the combination with other filters.

Third step the blood return

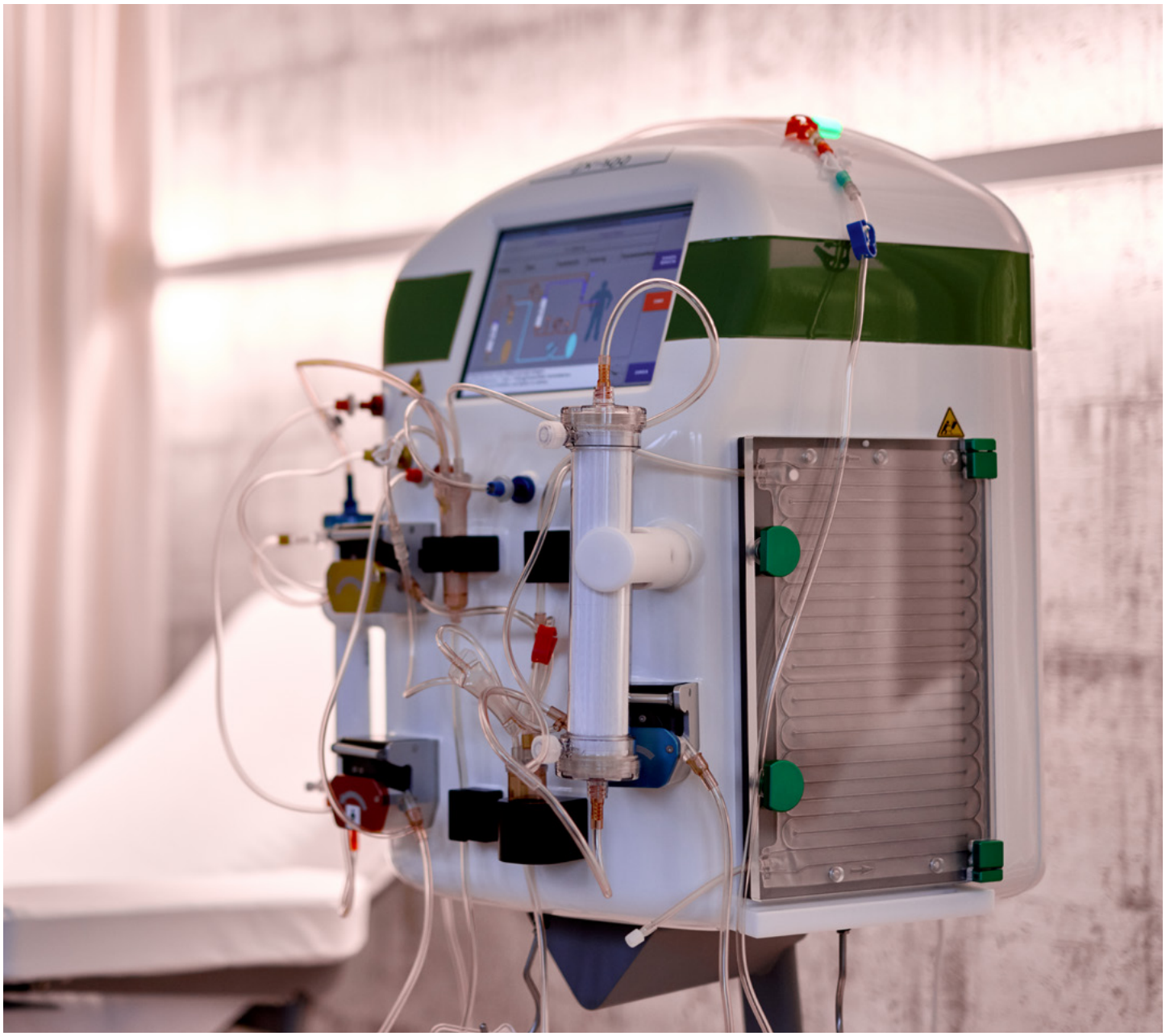
The blood plasma purified in this way is remixed with the previously separated blood cells and the "purified blood" is returned to your bloodstream.

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“INUS IN-300” device and the INUS filters

The know-how in INUSpheresis® therapy, which has been further developed since 2008, ensures that the blood washing system is optimally matched to the sophisticated filters and achieves maximum filtration results. The “INUS IN-300” device is designed to meet the requirements of different patients.

From the very beginning, German doctors and Swiss engineers have further developed and perfected the “INUS IN-300” blood washing system specifically for the requirements of INUSpheresis®. Depending on the therapy goal, the high-tech filters are determined. The filters are designed to eliminate polluting substances in the most holistic approach possible.



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INUS-30 (secondary filter)

The lipid filter “INUS-30” is used for patients with pathological increase of cholesterol level. In contrast to classical filters, INUSpheresis® uses filters with a finer pore size. Thus, up to 80% of lipids can be removed from the blood plasma, which improves microcirculation and reduces inflammatory markers and fibrinogen.

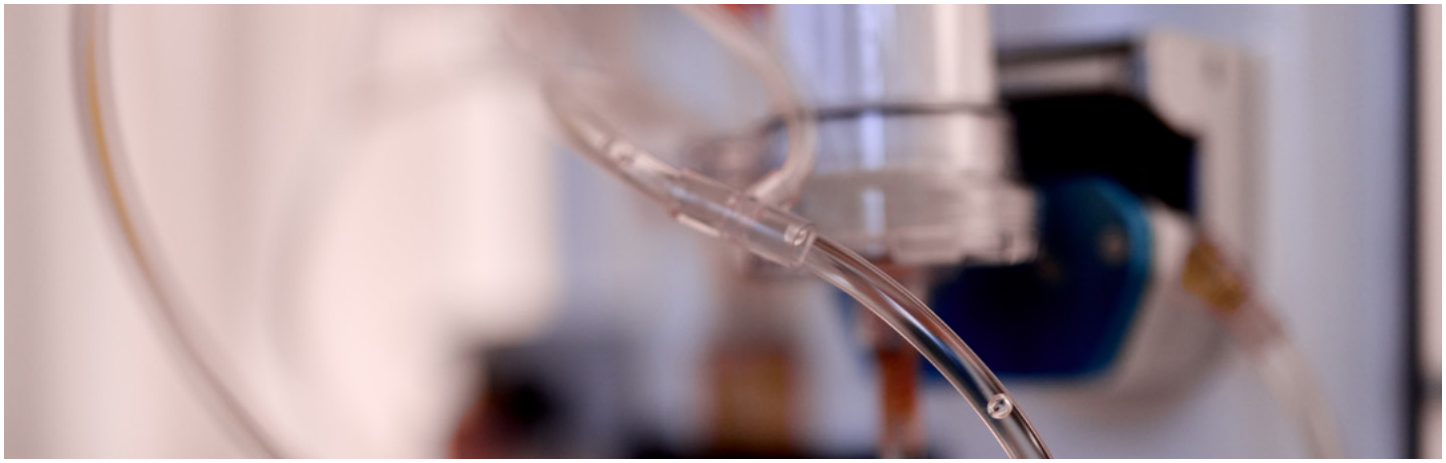


INUS TKM58 (secondary filter)

This immunological membrane has a special, fine pore size and texture to specifically remove pathogenic proteins and protein-bound toxic substances. TKM58 filters by size, shape and weight without the need for additional albumin:

Circulating immune complexes, Pro-inflammatory cytokines, Auto antibodies, Inflammatory substances, Solvents Pesticides and other environmental pollutants.

The INUS filters are “one-time filters” and therefore the treatment cycle can be freely selected.



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Chemical and biochemical analyses

The filtered-out residues are subjected to chemical and biochemical analyses to measure excreted toxin levels and plasma residues. In this process, INUSpheresis® is not a plasma exchange and does not result in any significant loss of electrolytes or immune bodies.

Blood washing is basically a procedure in which substances can be removed from the plasma. INUSpheresis® is not to be confused with dialysis, in which only the urinary substances are filtered. INUSpheresis® is a therapeutic blood wash and is characterized by its sophisticated filters and double filtration.

In our premises, there are room dividers between the individual treatment areas, which ensures a more private atmosphere. We do not offer individual treatment rooms. The reason for this is that the staff needs a certain amount of space to react quickly when necessary.

Effectiveness of blood plasma purification



Many patients feel the positive effects shortly after the therapy. If desired, the effectiveness of the cleaning can be proven by an analysis of the so-called filter eluate.

Immediately after the therapy you can feel the regained vitality. However, the effect goes far beyond the mere removal of substances from the plasma. By optimizing the microcirculation, there is an improvement in the supply of oxygen and nutrients to the tissues and organs.

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INUSpheresis® Center Basel



INUSpheresis® for prevention and as therapy for Long Covid



INUSpheresis®:
Prevention and Therapy



INUSpheresis®:
Successes in Long Covid

The INUSpheresis® can help with the following dieseases



Disease patterns - Causal therapy by INUSpheresis®



Autoimmune Diseases



Chronic Inflammation

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Medical team in Basel



Dr. med. Anton Ilin
Anesthesiologist



Milva Geissmann
Certified Nurse



Marina Leiser
Certified Intensive Care Expert

Questions, contact & appointments in Basel

If you have any questions, you would like a telephone consultation or would you like to make an appointment in Basel?

INUSpheresis® Center Basel
Ayus Medical Basel AG
Aeschengraben 10, CH-4051 Basel

Phone/Whatsapp: +41 61 381 85 85
E-Mail: basel@ayus.group
Website: www.ayus.group



Scan our address

Visit our webpage

Ayus Medical Group AG, Bernerhöhe Süd 1, CH-6410 Goldau