
biopulse™
Ionic / Rife frequencies detox foot spa

Live Blood Analysis Test Report
By Caroline Mansfield
Naturopath and Live Blood Microscopist

Study Objective

With 23 years experience as a qualified naturopath and live blood microscopist, I have been invited to evaluate the efficacy of the Bio Pulse Ionic Footbath with Frequencies using Live Blood Analysis. This evaluation aims to ascertain its effects on the health and vitality of red blood cells with particular focus on its influence on overall circulatory health.

The report below highlights my findings to offer valuable insights and conclusions on the subject.

Test Structure and Timeline

Test subject arrived hydrated, 500 mls water consumed prior to arrival	
Light breakfast consume	
09.00	First peripheral blood sample taken (Baseline Sample)
09.25	35-minutes Ionic Foot Bath Session
10.00	Second peripheral blood sample taken (Successive Sample)
10.25	Test complete

Live Blood Analysis Procedure

The procedure involves:

1. The fingertip is cleansed using a non-alcoholic sterile wipe
2. A quick and sterile lancet puncture is performed to extract a blood drop
3. The obtained blood droplet is promptly placed onto a microscope slide
4. A coverslip is placed on the blood droplet to facilitate microscope examination
5. The blood specimen is observed under the microscope

This process is all completed within just a few minutes, ensuring accurate and timely analysis

First Blood Sample

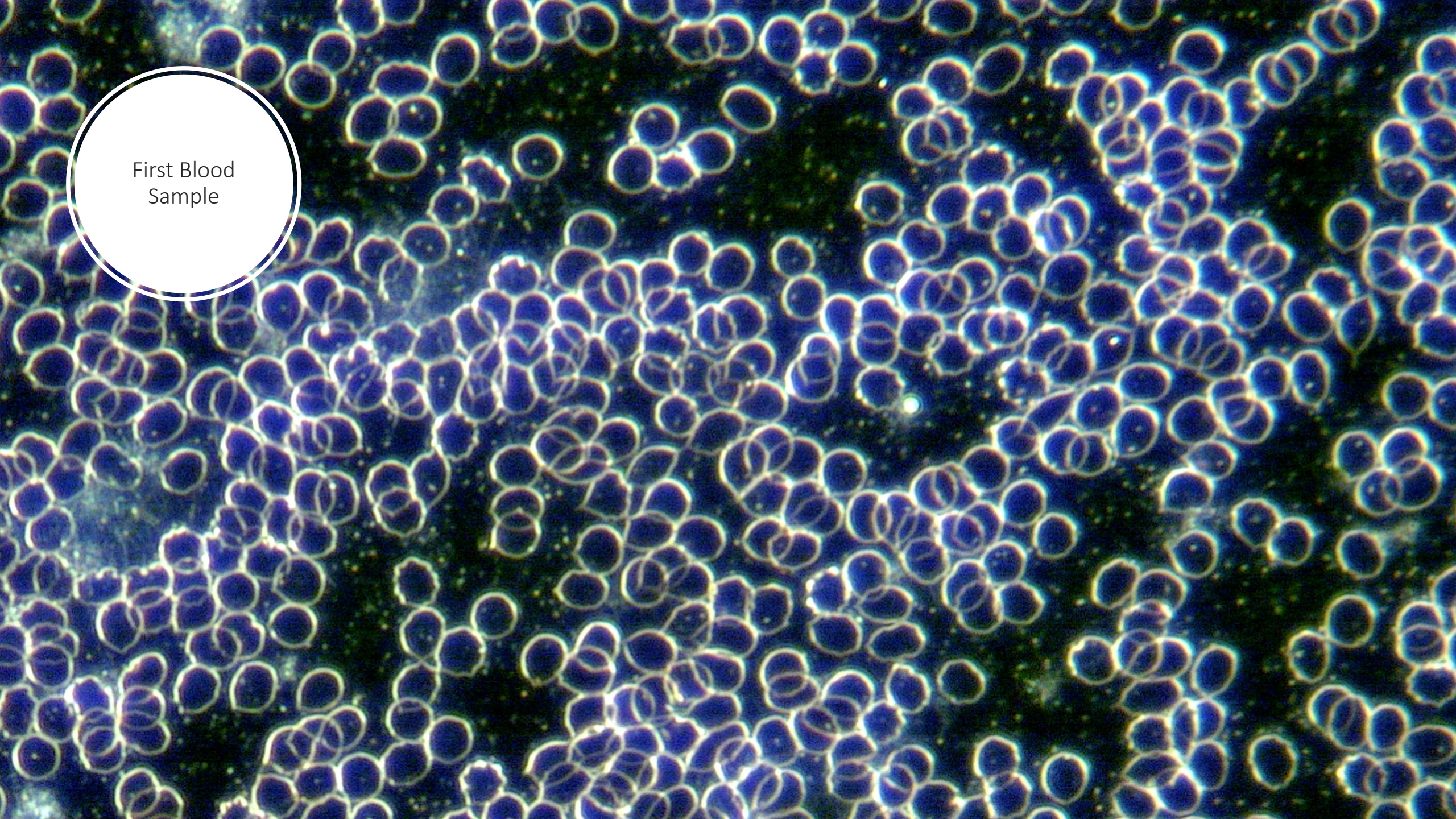
Baseline Sample

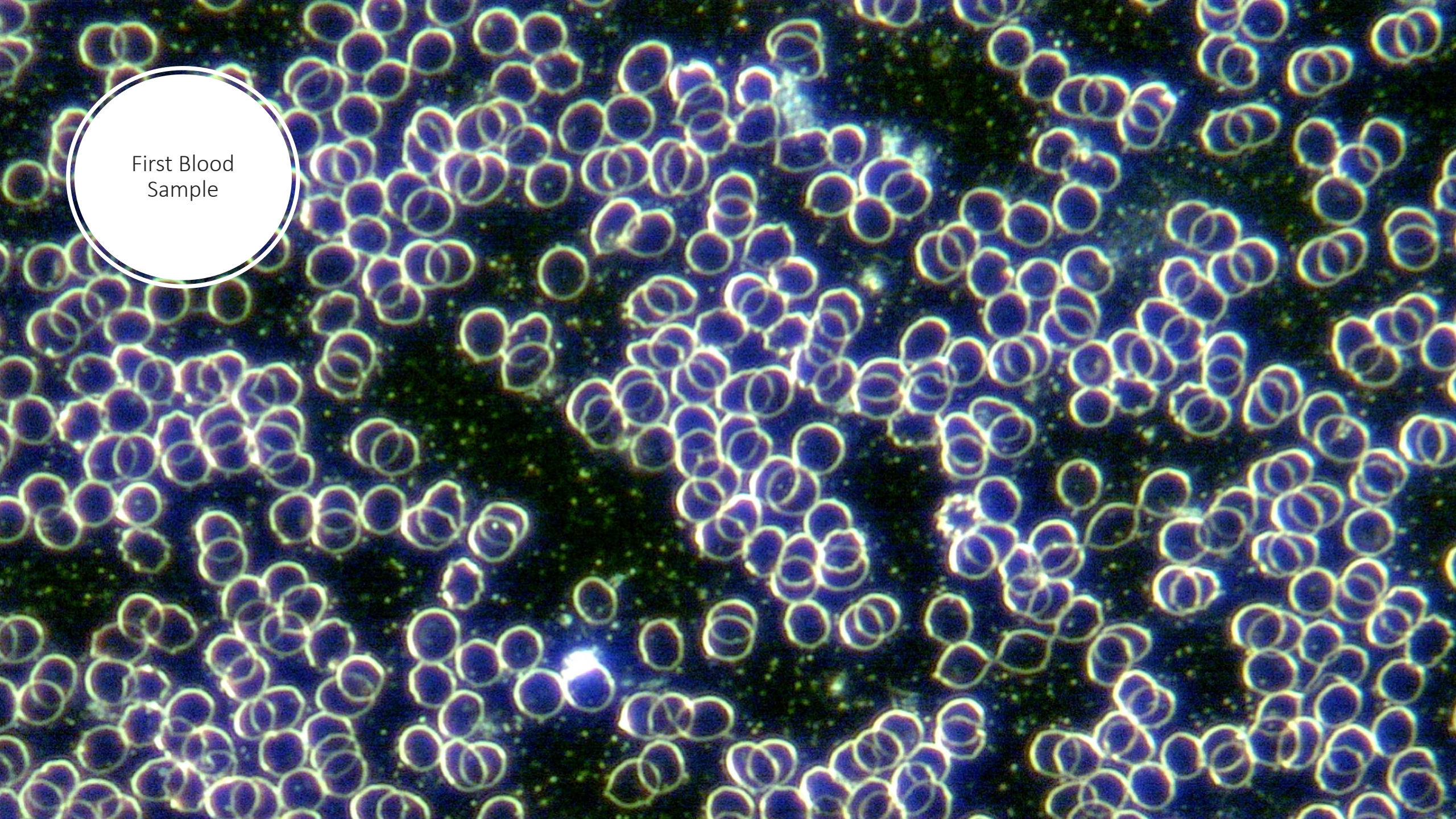
Blood Parameters

The initial blood sample revealed specific common findings in the blood, usually relating to poor diet and lifestyle choices:

- Erythrocyte aggregation (RBC clustering)
- Presence of Poikilocytes – cell membrane integrity compromised, indicative of Oxidative Stress
- Reduced Zeta Potential – signifies diminished repulsion between red blood cells, potentially leading to increased aggregation.

The observed anomalies hold the potential to compromise blood flow and impact the delivery of oxygen to tissues.


First Blood
Sample


First Blood
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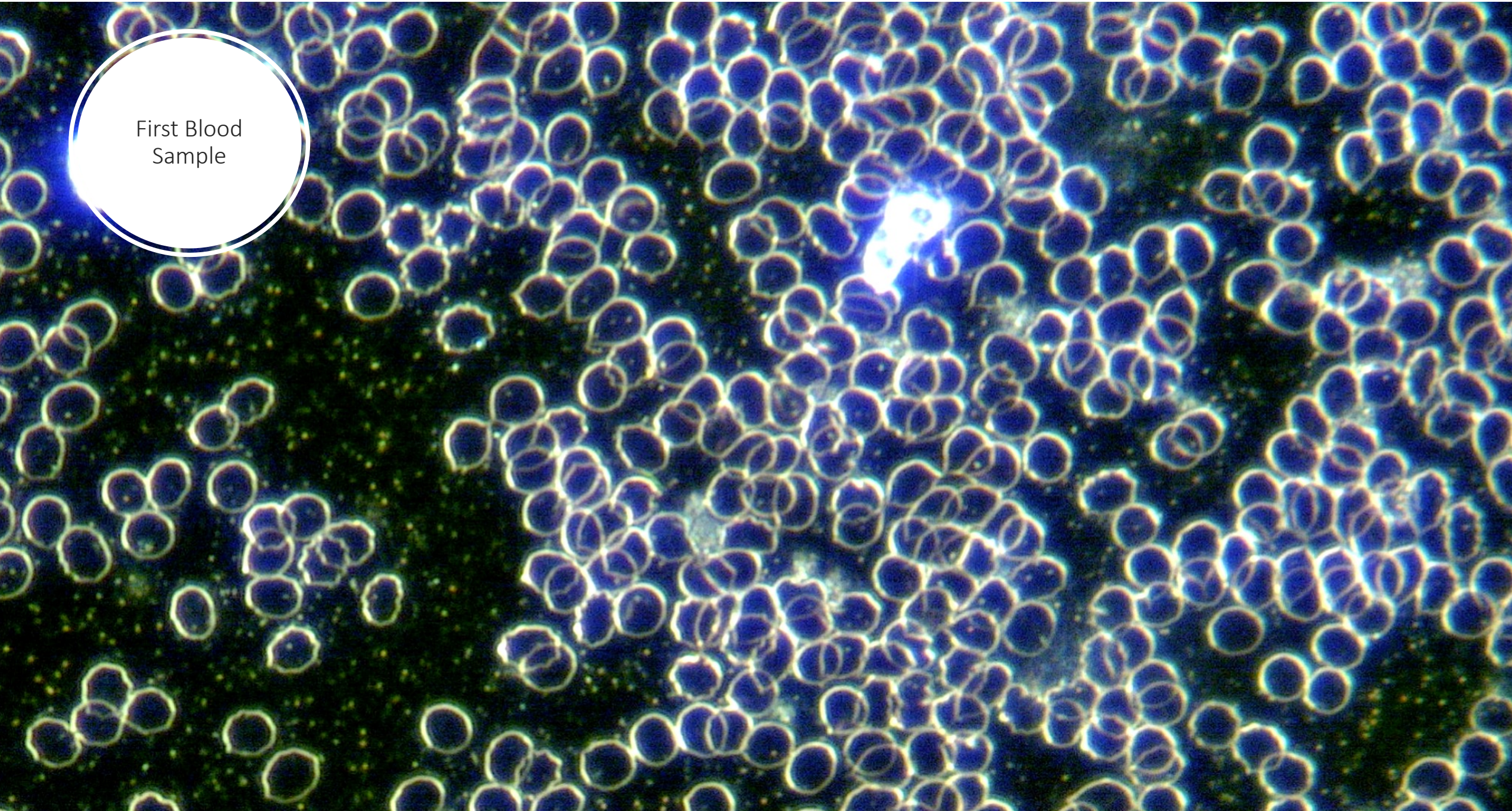

First Blood
Sample

BioPulse Ionic Foot Bath Treatment Procedure

During the Biopulse Ionic Foot Spa treatment, the following steps are followed:

1. Warm water is filled into the treatment bowl.

2. A 24-volt array is submerged in the water to initiate the process.

3. To improve conductivity, a natural salt electrolyte is introduced into the water.

4. The client immerses their feet in the warm water and enjoys a 35-minute session while the treatment takes effect, promoting relaxation and wellness.

Second Blood Sample

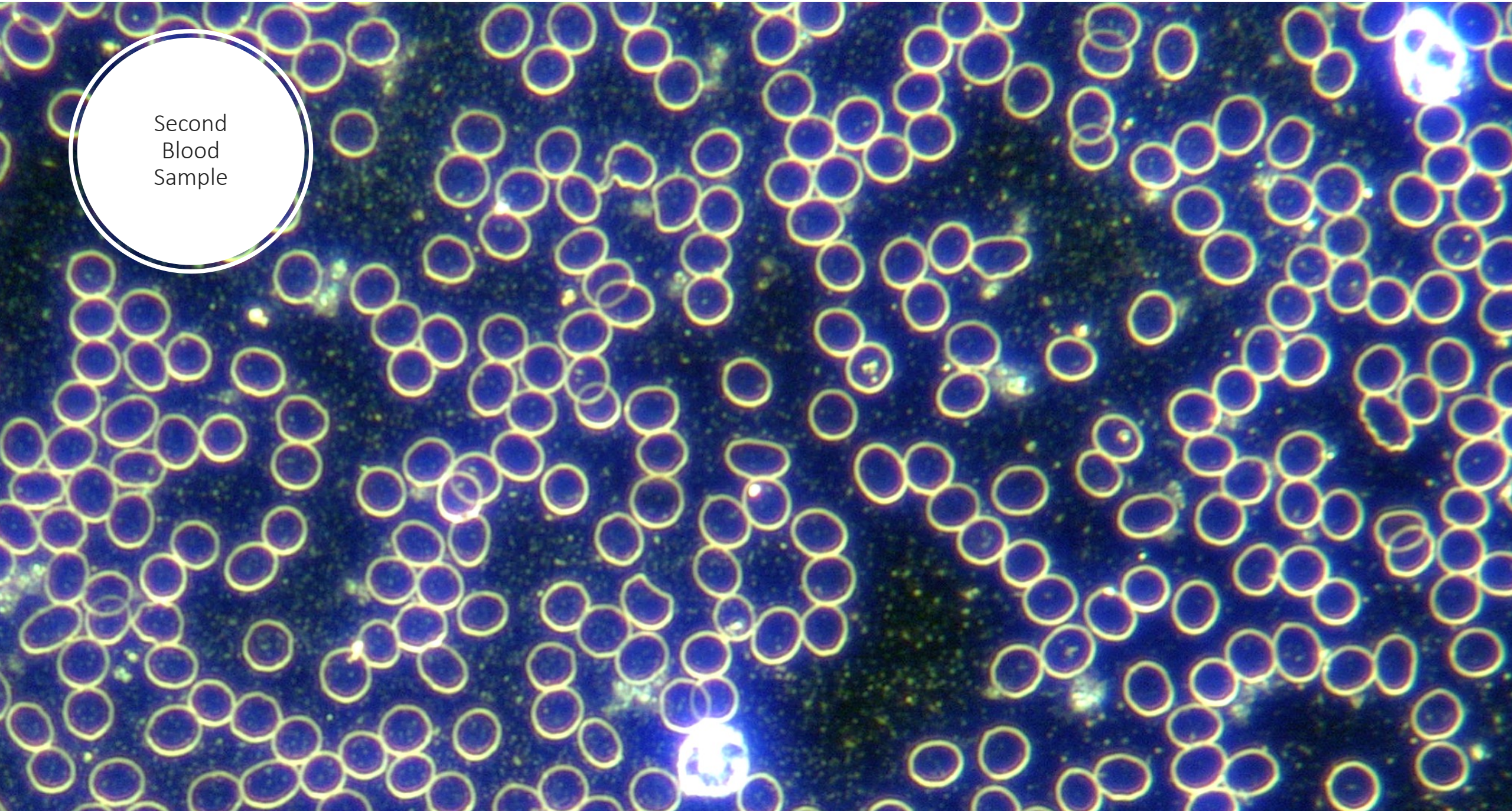
Successive Sample

Blood Parameters

The second blood sample exhibited a profile indicative of robust health:

- Red blood cells flowed freely with no erythrocyte aggregation
- Cell membranes exhibited optimal integrity, indicating the removal of oxidative stress
- Enhanced zeta potential resulted in unhindered red blood cell circulation

The improved blood composition is poised to bolster oxygen transportation to tissues, underlying a more favourable physiological condition.


Second
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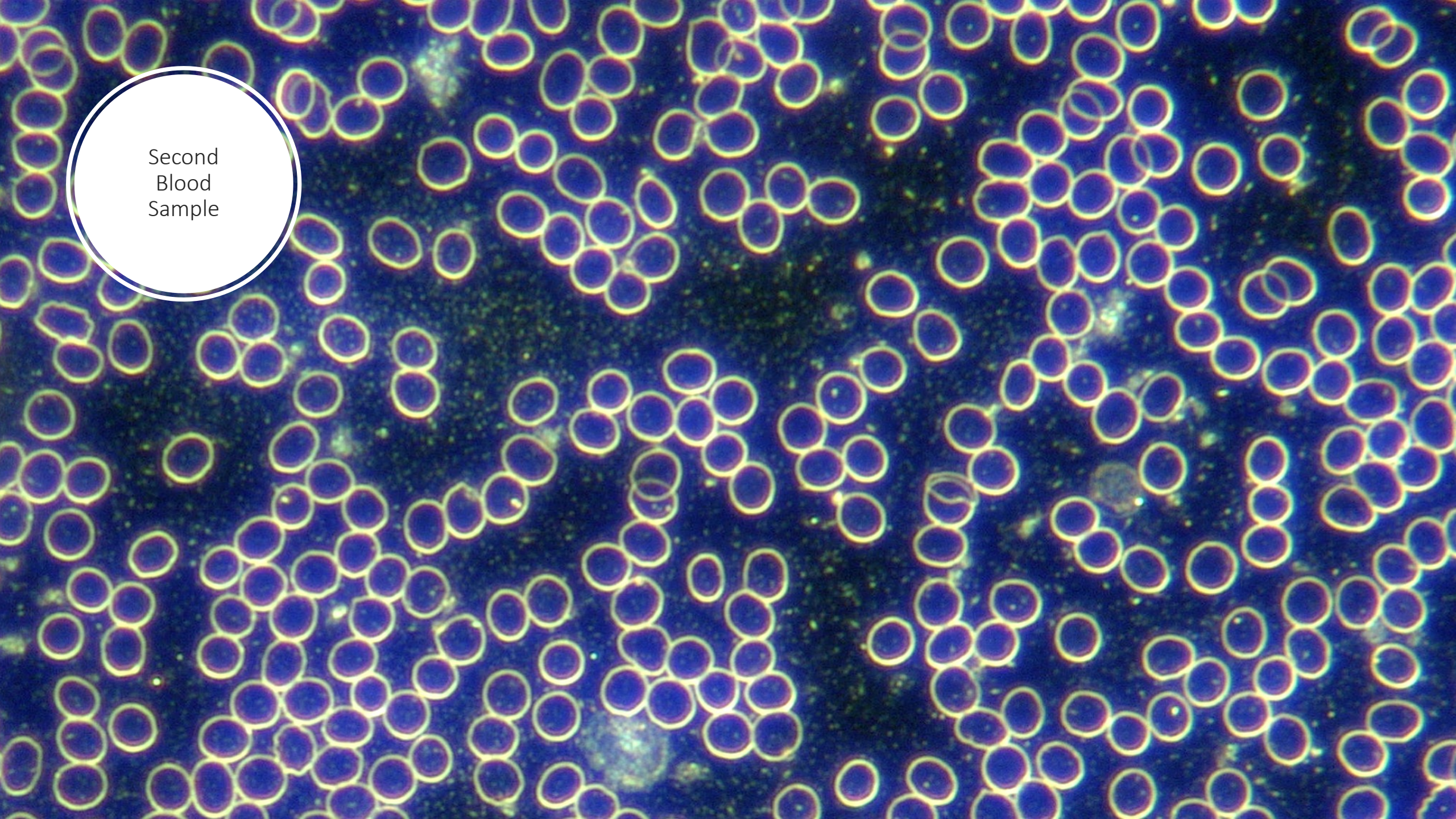
Second
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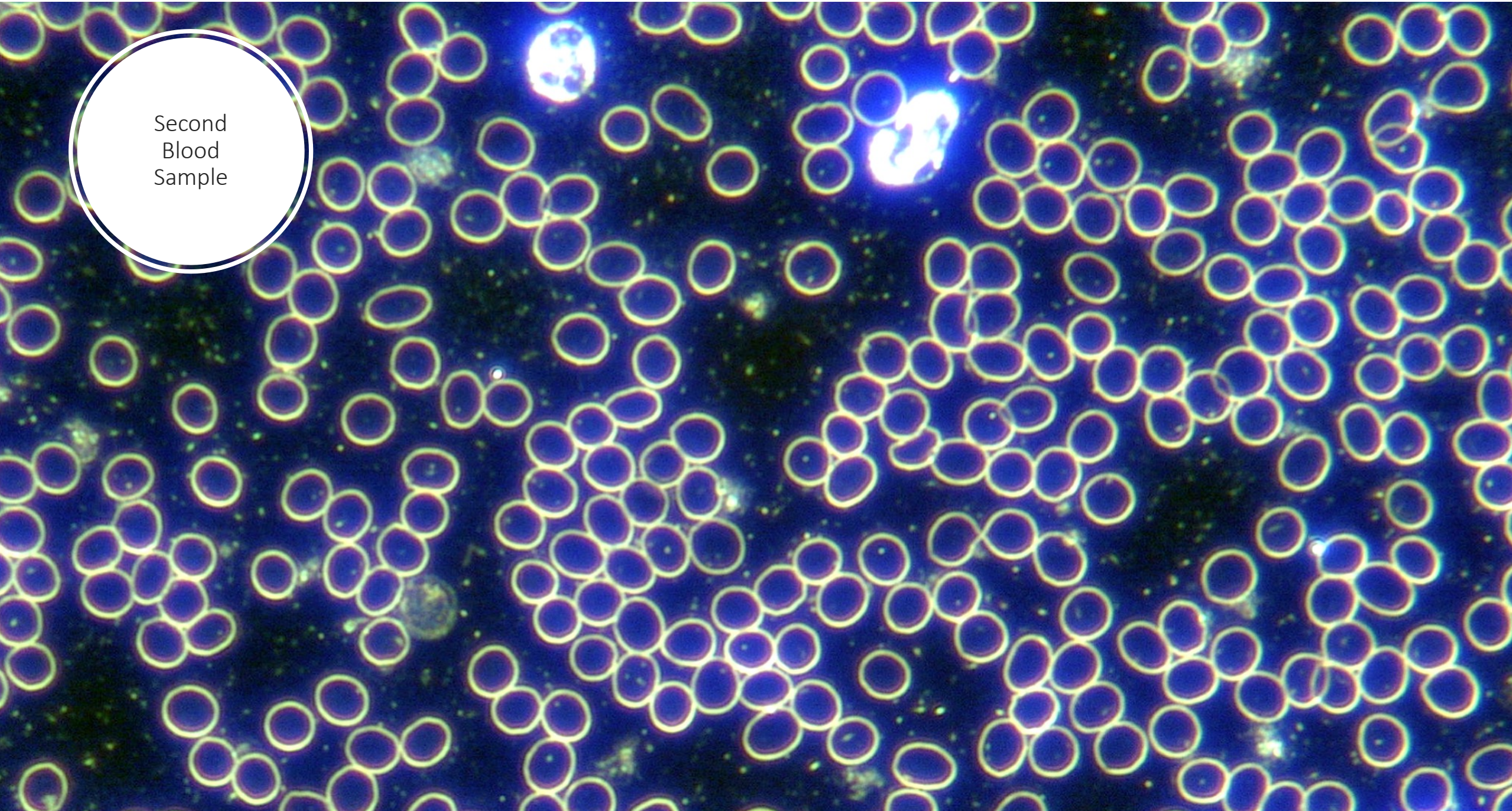
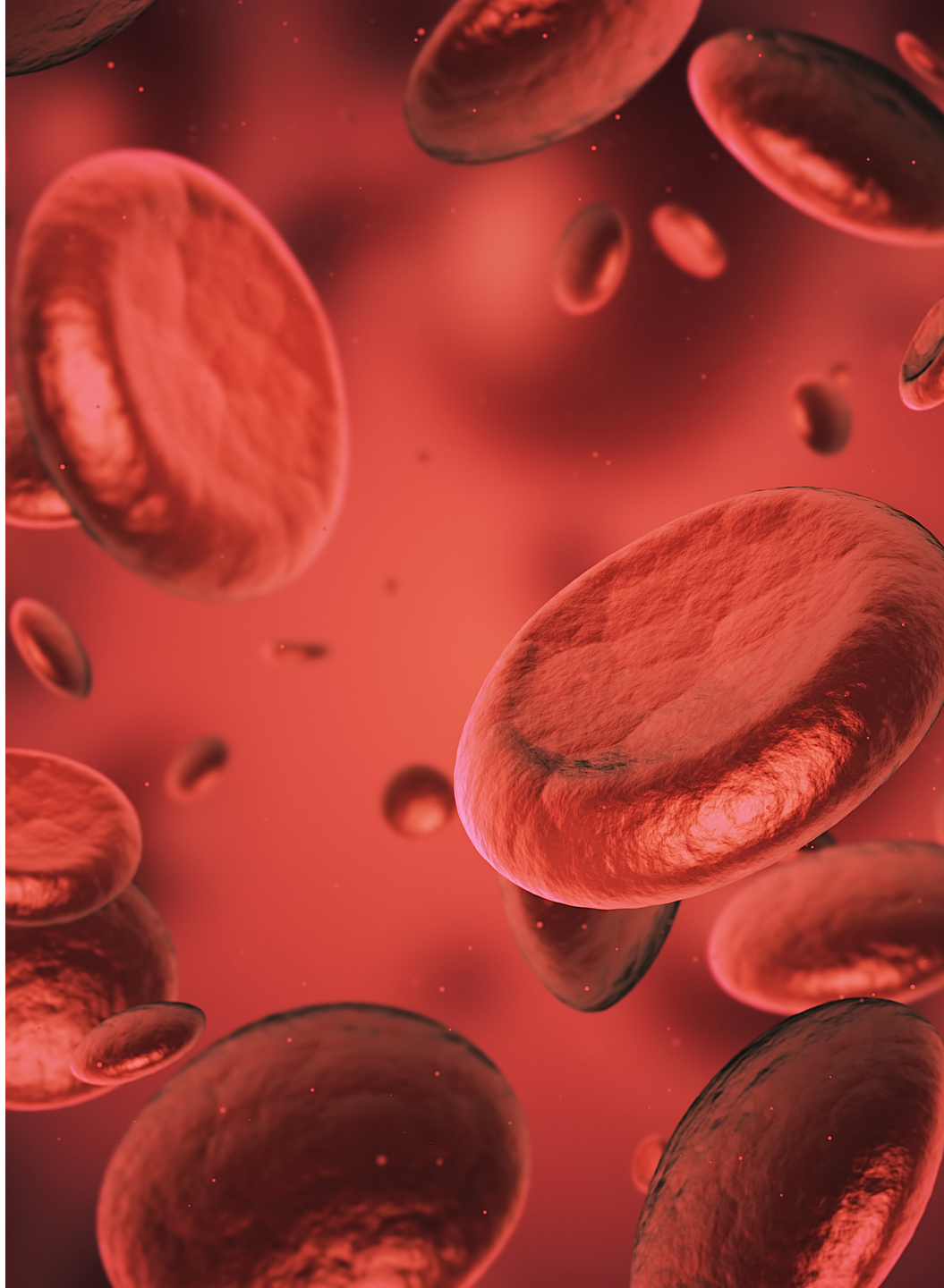

Second
Blood
Sample

Conclusion

The BioPulse Ionic Foot Spa, which runs on 24 volts, effectively harnesses ionization to infuse negatively charged ions into the bloodstream, elevating the blood's zeta potential. This process leads to enhanced circulation, improved transport of oxygen and nutrients, and supports detoxification. *See Appendix A

Through improved circulation and the affinity of negatively charged ions for positively charged toxins, the BioPulse Foot Spa can be seen to play a pivotal role in enabling deeper detoxification, aiding in the removal of positively charged toxins through multiple pathways such as the liver, colon, lymphatic system, and skin, thereby significantly reducing systemic toxicity. *See Appendix B

In essence, the BioPulse Ionic Foot Spa can be regarded as a transformative "biohack" for optimizing health.



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Appendix A.
Enhancing Blood Zeta Potential Through Negative Ions: Mechanism and Health Benefits

The mechanism by which negatively charged ions from the foot bath improve the zeta potential of the blood is an intriguing process with several steps:

- **Introduction of Negative Ions**: The foot bath introduces negatively charged ions, typically in the form of ions generated by the device, into the water.
- **Ions Enter the Body**: When a person immerses their feet in the foot bath, these negatively charged ions are absorbed through the skin and into the bloodstream. The skin serves as a semi-permeable membrane, allowing ions to pass through.
- **Ion Attraction:** Once inside the bloodstream, these negative ions interact with various components, including red blood cells (RBCs). Red blood cells normally carry a slight negative charge on their surface.
- **Repulsion of RBCs**: The negatively charged ions introduced by the foot bath enhance the negative charge on the RBCs' surfaces. According to the principles of electrostatics, negatively charged particles repel each other. As a result, the RBCs, now bearing a stronger negative charge, begin to repel each other.
- **Improved Zeta Potential:** Zeta potential is a measure of the electrostatic force of repulsion between adjacent, similarly charged particles in a fluid, such as blood. When RBCs repel each other due to their increased negative charge, this results in an increase in the zeta potential of the blood.

Why it's beneficial:

- **Enhanced Blood Flow:** An improved zeta potential means that red blood cells are less likely to clump together (aggregation), leading to better blood flow. Improved blood flow is crucial for the efficient delivery of oxygen and nutrients to tissues throughout the body.
- **Prevention of Microvascular Issues:** Reduced RBC aggregation decreases the risk of microvascular problems. When RBCs aggregate, they can obstruct small blood vessels, impairing circulation in various organs. Preventing aggregation reduces this risk.
- **Overall Health:** Better circulation and oxygenation of tissues contribute to overall health and well-being. It can help alleviate symptoms related to poor circulation and support the body's natural healing processes.

In summary, the introduction of negatively charged ions from the foot bath improves the zeta potential of the blood by enhancing the negative charge on red blood cells. This, in turn, promotes better blood flow and overall health by preventing aggregation and supporting optimal tissue oxygenation.

Caroline Mansfield 28.09.2023

Appendix B.
Understanding the Mechanism of Negatively Charged Ions in Detoxification: Ion Exchange and Toxin Elimination

Negatively charged ions introduced into the bloodstream can aid in the elimination of positively charged toxins through a process known as ion exchange. Here's how it works:

- **Ion Attraction:** Negatively charged ions introduced by the BioPulse Foot Spa, for instance, are attracted to positively charged toxins. Opposite charges attract, so the negative ions are drawn to the positively charged toxins like heavy metals, free radicals, and other pollutants in the bloodstream.
- **Binding:** When negative ions encounter positively charged toxins, they bind together. This binding neutralizes the charge of the toxin.
- **Formation of Complexes:** The bound ions and toxins form complexes or clusters. These complexes are generally larger and heavier than individual toxins.
- **Enhanced Elimination:** The body's elimination systems, such as the liver, kidneys, colon, lymphatic system, and even the skin, can more effectively process and remove these larger toxin complexes. For example, the liver may be better equipped to filter out larger complexes, and the colon can eliminate them through bowel movements.
- **Reduced Toxic Load:** As these complexes are eliminated through various pathways, the overall toxic load in the body diminishes. This can contribute to a reduction in systemic toxicity and an improvement in overall health.

In summary, the introduction of negatively charged ions enhances the body's ability to neutralize and eliminate positively charged toxins by facilitating their binding into larger, more manageable complexes that are then effectively processed and removed through different elimination channels in the body.

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