For Patients and the General Public

About StemMed's Precision Medicine and Cell Analysis

What is Precision Medicine (*Mibyo* - 未病)

" **Precision Medicine** " refers to a state just before one becomes ill, and the importance of "preventing illness before it happens" has been taught since ancient times.

Through blood cell analysis, we capture subtle changes in the body that are hard to see and **visualize your regenerative potency.**

What is Vascular Regenerative Cell Analysis?

Our blood contains cells essential for maintaining health, such as:

- Cells that repair blood vessels.
- Cells that control inflammation.
- Cells that regulate immunity.

However, due to age, stress, and lifestyle habits, these cells gradually become unable to exert their full strength.

Vascular Regenerative Cell Analysis:

1. Examines the function of cells from a collected blood sample.
2. Observes changes in a regenerative environment in your body.
3. Comprehensively evaluates your **"Regenerative potency", "Vascular Age,"** and **"Progression of Disease."**

Recommended for:

- Those who want to confirm their body's **"regenerative ability."**
- Those concerned about lifestyle diseases.
- Those who want to know the risk of arteriosclerosis and heart disease.
- Those considering regenerative therapy.

Analysis Process:

1. Blood collection (small amount) at a medical institution.
2. Analysis at a specialized lab (approx. 1 month).
3. Result report is provided to the individual.

We will also notify you of comparative data from AI analysis and re-analysis results at a later date.

Vascular Regenerative Cell Analysis provided by StemMed Co., Ltd. is a revolutionary diagnostic service. This analysis was developed based on proprietary technology and data cultivated through years of stem cell therapy development research. It makes it possible to comprehensively evaluate the **"your regenerative ability"** from blood cells, which was impossible with conventional diagnostics.

Specifically, it has the following features:

Feature	Description
Purpose and Evaluation	Our blood contains cells important for body maintenance and recovery, such as cells with "vascular regenerative potency" and those that control "inflammation and immunity." These cells become less effective due to illness, age, or environmental stress. The analysis comprehensively evaluates these cell groups to diagnose vascular health (vascular regenerative age), disease progression, and recovery power (regenerative power). Vascular Regenerative Cell Analysis makes it possible to diagnose the "pre-symptomatic" state—the boundary between health and illness—highlighting the importance of early detection for those at risk of disease.
Analysis Method	Analysis is possible with only a small amount of blood. It comprehensively diagnoses vascular regenerative potency by analyzing the changes in blood cells placed in a regenerative environment. It compares and analyzes the current cellular function (regenerative cells, inflammatory cells, immune cells) with the cellular function when placed in a regenerative environment to determine the regenerative capacity of the blood cells. Regenerative age can be estimated by comparative analysis with data from the general population.
Difference from Conventional Testing	General vascular disease diagnostics (blood tests, pulse wave analysis, vascular ultrasound, capillary scope measurement, etc.) are useful for understanding the current disease state but cannot provide a cellular biological diagnosis to predict the future of blood vessels. "Vascular Regenerative Cell Analysis" is positioned as a **"New Precision Medicine "** that fills this gap by determining how much regenerative capacity cells have for vascular renewal.

Application Cases:

- Individuals who want to diagnose their own **"regenerative ability"** from blood cells.
- Individuals diagnosed with lifestyle diseases (diabetes, high blood pressure, hyperlipidemia, etc.) who want to diagnose the extent of the decrease in their **"regenerative ability."** These diseases cause arteriosclerosis progression due to vascular damage/aging, so the analysis can determine the degree of the condition (regenerative age, chronic inflammatory response, immune hypersensitivity).
- Individuals concerned about severe diseases caused by arteriosclerosis, such as cerebral infarction or myocardial infarction, who want to diagnose the decline in their **"regenerative ability."**
- Individuals who wish to receive regenerative treatment and want to know their own regenerative capacity to determine if treatment is likely to be effective. It can assess whether the blood cells are suitable for cell therapy.

This analysis provides important information for managing patients' health and deciding on treatment policies.

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