

The immune system is commonly assumed to respond to pathogens such as bacteria and viruses.

Nowadays, it also has to interfere with environmental factors, like air pollution, chemicals, pollen, UV light, mental stress, and foods allergies.

The consequence is an over-stimulation of the immune system, triggering inflammation and allergies or even autoimmunity.

Knowing a risk factor is around like fine particle pollution or currently "Covid19", causes fear and mental stress, leading to an extra challenge faced by the immune system. This means the body does not only counteract directly to the pathogen, but also needs to buffer elevated stress symptoms like anxiety, GI discomfort, bronchial cough or cramps. The immune system can be supported by natural exposure levels to bacteria, healthy lifestyle or a healthy diet.

Special case: Corona - the immune system & inflammation:

Panel 1: Hi, I am Virus SarsCoV2. My nickname is "Corona", because my spike proteins look like a crown. I am only 140 nm big, and you can easily inhale me.

Panel 2: In the throat I collaborate with the ACE2 receptor, who accompanies me into your cells.

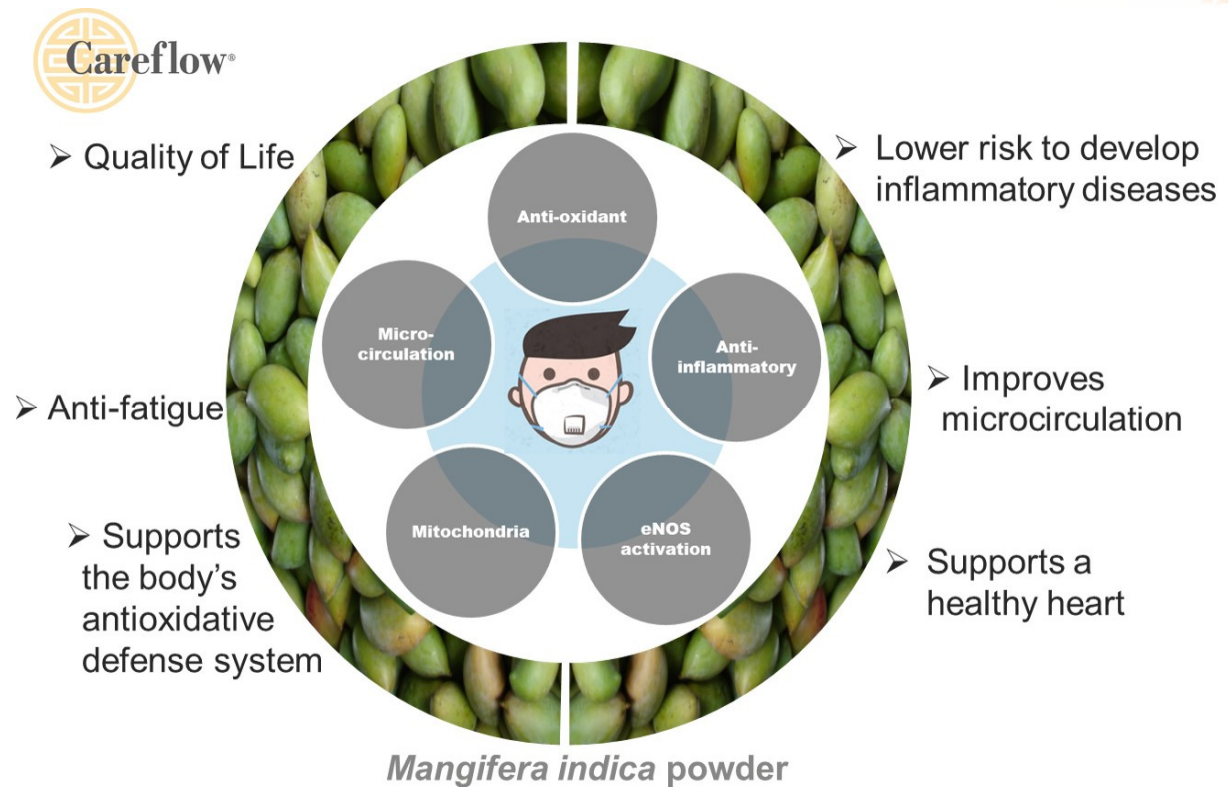
Panel 3: Here, I take over control of your cells and instruct them to produce millions of myself. Finally, we are everywhere in your body.

Panel 4: Now, the immune system is on alert: First macrophages recognize and try to eat us. They are easily exhausted, which you may feel as fiber. They release cytokines to call colleagues, like natural killer cells for support. This is not good for both of us, as it destroys us and triggers inflammation causing diseases, which may also kill you.

Panel 5: There is natural support for your immune system to inhibit inflammation and to support microcirculation.

Panel 6: Vital Solutions logo and Careflow logo with an arrow pointing to the immune system diagram.

Vital Solutions offers Careflow®, a science-based branded ingredient, which supports the body when pathogens bring your immune system out of balance and inflammation effects your body also leading to reduced microcirculation.



Careflow®

- Careflow® is an innovative Mango fruit powder. Results of several scientific studies have demonstrated that Careflow® significantly improves blood flow and microcirculation
- If the immune system is overstimulated, like in the cause of Corona virus infection, too many cytokines triggering inflammation are released. This cytokine storm leads to a systemic endothelial inflammation, generating plaques and hindering microcirculation, up to embolisms. Careflow® significantly reduces inflammation by several pathways. It reduces the release of the pro-inflammatory cytokines interleukin 6 and TNF α . Furthermore, it inhibits the enzymes COX1 and COX2, reducing the concentration of pro-inflammatory prostaglandins
- Inflammation generates free radicals, which needs to be scavenged. Careflow® stimulates the body's antioxidative defense system by activation of SOD
- Careflow® may lower the risk to develop inflammatory diseases like e.g. CVD, lung inflammation and prevent the development of embolisms by improving the microcirculation