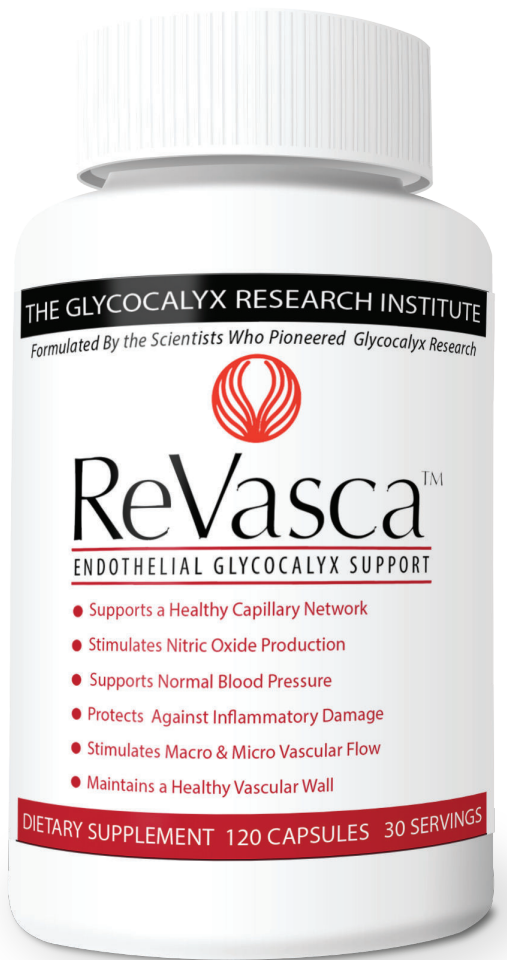


# REVASCA™ PATIENT INFORMATION



Vegetarian Capsules



Natural Grape Flavored Drink Powder

**ReVasca™** is a unique multi-ingredient nutraceutical designed to support a healthy endothelial glycoCalyx—the micro-thin lining in all arteries, veins, and capillaries. Developed over 15 years by the top glycoCalyx researchers, **ReVasca™** promotes the health of vital organs like the heart, brain, kidneys, lungs, muscles, liver, skin, and eyes. When taken daily with a healthy diet and exercise regimen, it enhances overall health and longevity.

# REVASCA™ PATIENT INFORMATION

## — ReVasca™ —

**ReVasca™** is a unique multi-ingredient nutraceutical that helps support a healthy endothelial glycocalyx. Taking over 15 years to develop, **ReVasca™** was formulated by the leading researchers of the human endothelial glycocalyx. **ReVasca™**, when taken daily as part of a healthy diet and exercise regimen, promotes healthy organs associated with vascular health including heart, brain, kidneys, lungs, muscle, liver, skin and eyes along with improved overall health and longevity. \*

Supplement Facts			
Serving Size: 4 Capsules Servings Per Container: 30 (120 capsules)			
	Amount Per Serving	% Daily Value	Formula Use(s)
<b>Proprietary Blend including:</b> <ul style="list-style-type: none"> <li>• Fucoidan 85% polysaccharides (from <i>Laminaria japonica</i>)</li> <li>• Vascaman™ (Acemannan, 18% polysaccharides from <i>Aloe barbadensis</i> leaf)</li> <li>• ViNitrox™ (proprietary synergistic combination of apple and grape polyphenols)</li> <li>• L-Citrulline</li> <li>• Superoxide dismutase SOD (from Soybean, <i>Glycine max</i>) and Catalase (from <i>Aspergillus niger</i> fungus)</li> <li>• Hyaluronic acid</li> </ul>	2,860 mg	*	<ul style="list-style-type: none"> <li>• Strengthens the micro-thin shield that protects the heart, arteries, micro-circulation, and veins called endothelial glycocalyx (eGCX)***</li> <li>• Promotes healthy organs associated with vascular health***</li> <li>• Promotes the bioavailability of nitric oxide***</li> <li>• Helps support nutrient, water, and hormone exchange from blood to cells***</li> <li>• Helps strengthen the endothelial glycocalyx gel barrier***</li> <li>• Decreases risk of blood clots ***</li> <li>• Supports a healthy GUT microbiome***</li> </ul>
* Daily value not established. **Other Ingredients: Hydroxypropyl methylcellulose, rice flour, rice flour extract and magnesium stearate.			*** These Statements have not been evaluated by the US FDA. This product is not intended to diagnose, treat, cure or prevent any disease.

**Recommended Uses:** To help support the aging and damaged microvascular system through improving endothelial glycocalyx structure and function.

**General Dosage:** Take 4 capsules daily – best to take 2 capsules in the morning, 2 capsules in the evening daily if possible.

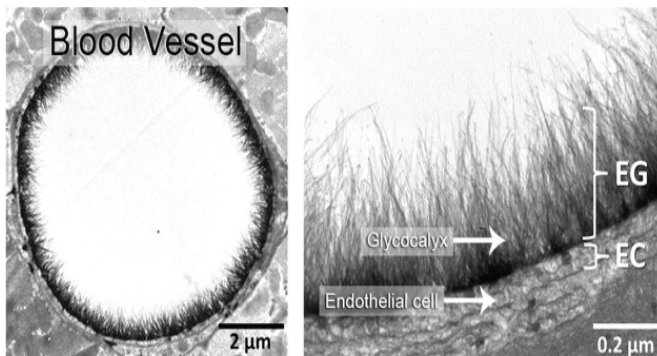


# REVASCA™ PATIENT INFORMATION

## — What is the Glycocalyx? —

The endothelial glycocalyx is a micro-thin, hair-like shield that protects the heart, arteries, micro-circulation, and veins.<sup>1,2</sup>

In particular, a sugar-like compound called hyaluronan is very important for developing and maintaining the endothelial glycocalyx.



Glycocalyx means “sweet husk” and was described in 1963 as the “extracellular polysaccharide coating on cells”.<sup>3</sup>

The endothelial glycocalyx is negatively charged versus the positively charged red blood cells flowing through the vessels – this helps form a “gel” that prevents circulating blood cells from touching the walls of the vessels.

The endothelial glycocalyx is an important gatekeeper of vascular permeability, or the exchange of gases (oxygen, CO<sub>2</sub>), nutrients and waste through the vessel, tissues and organ walls.

### Factors that damage and degrade endothelial glycocalyx include:<sup>4</sup>

- Aging
- Chronic stress
- Poor diet – high carb, high sugar/ high glycemic
- Lack of exercise OR over-exercising
- Genetics
- Sepsis
- GUT/microbiome disruption (dysbiosis) and leaky GUT syndrome
- Trauma based inflammation – including surgery, injury
- Chronic inflammation (metaflammation)
- Chronic and high levels of oxidative stress such as with environmental contaminants like heavy metal intoxication, pesticides, smoking
- Insulin resistance / T2D
- Viral infections - including SARS-Cov-2 (COVID-19)

**Studies report that supporting and protecting the endothelial glycocalyx is a viable therapeutic target to slow down age-related vascular dysfunction.<sup>5</sup> But how can we support this important structure?**

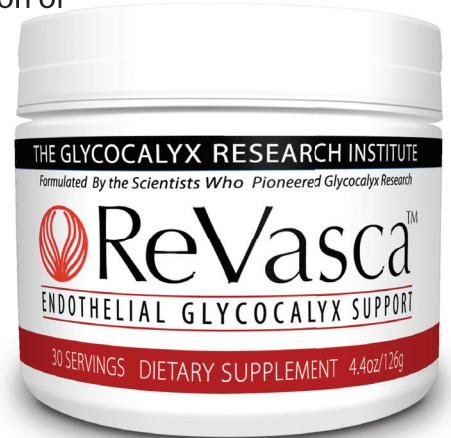
# REVASCA™ PATIENT INFORMATION

## — What is the Glycocalyx? — (cont.)

Enter ReVasca™, the most powerful formula to date designed to restore and protect the endothelial glycocalyx. Multiple clinical studies have reported on the effectiveness of ingredients in ReVasca™ and the collaborative ability of these compounds in supporting the body's natural ability to preserve the endothelial glycocalyx.

## — Ingredients —

Ingredients in ReVasca™ were chosen after almost 2 decades of research on what nutrients support the human endothelial glycocalyx. Our scientists that are global leaders in endothelial glycocalyx research found these natural compounds below are the unique combination of nutrients that help the body support the glycocalyx most effectively.



- **Fucoidan** 85% polysaccharides (from *Laminaria japonica*) - brown seaweeds are rich in fucoidin, a compound that supports the body's inflammation pathways, supports the body's natural antioxidant system, supports immunity all leading to endothelial glycocalyx support.<sup>8</sup>
- **Hyaluronic acid** – constitutes 90% of the human endothelial glycocalyx; is lost when the glycocalyx is degraded - leading to endothelial dysfunction (blood vessel issues).<sup>9,10</sup>
- **Vascaman™** Acemannan, 18% polysaccharides from Aloe barbadensis leaf) – acemannan is a polysaccharide compound found in aloe leaf that has immune supportive properties, helps the body improve nitric oxide levels and supports a healthy **GUT microbiome (which has far reaching positive health effects)**.<sup>11</sup>
- **ViNitrox™** (proprietary synergistic combination of apple and grape polyphenols) – superior antioxidant polyphenols that help support improved nitric oxide levels in the body.<sup>12</sup>



# REVASCA™ PATIENT INFORMATION

## — Ingredients — (cont.)

- **L-Citrulline** – A nutrient rarely found in foods, but is highly concentrated in watermelon; helps support nitric oxide levels in the body, which support a healthy endothelial glycocalyx.<sup>13</sup>
- **Superoxide dismutase SOD** (from Soybean, *Glycine max*) and **Catalase** (from *Aspergillus niger fungus*) - antioxidant enzymes that help decrease oxidative stress that damages the sensitive endothelial glycocalyx.<sup>14,15</sup>

## — Who Can Benefit from ReVasca™ ? —

Individuals who can benefit from taking **ReVasca™** include:

- The aging population
- Trauma or surgery patients
- High cardiovascular disease risk, including hypertension, atherosclerosis, stroke, M
- Type 2 diabetes and insulin resistance (pre-diabetes)
- Chronic Kidney Disease (CKD)
- Patients with chronic inflammation
- Poor immunity including viral infections (COVID)
- Heavy exercisers, athletes
- People wanting to improve endurance and performance

## — Summary—

Protection of the endothelial glycocalyx is extremely important to take care of to improve overall health and longevity. Using ReVasca™ is an important step in supporting the body in protecting the endothelial glycocalyx and keep it functioning properly. Talk to your practitioner to see if this supplement is right for you.



# REVASCA™ PATIENT INFORMATION

## — ReVasca™ Bottom Line\* —

The proprietary and scientifically tested components of **ReVasca™** work together to help stimulate microvascular blood flow and restore and protect the endothelial glycocalyx, which is essential for optimal vascular health, organ function and longevity. **ReVasca™**:

- Supports a healthy capillary network
- Helps the body produce nitric oxide
- Supports the body in regulation of blood pressure
- Supports healthy inflammatory pathways
- Supports improved macro and micro blood flow
- Supports the body's ability to decrease the risk of developing blood clots

DISCLAIMER: \*These statements have not been evaluated by the Food and Drug Administration (FDA). This product is not intended to diagnose, treat, cure, or prevent any disease. This material is provided for educational and informational purposes only. This information is obtained from reference sources believed to be reliable, but its accuracy cannot be guaranteed. Dietary supplements including nutraceuticals can occasionally cause allergic reactions in a small percentage of the population. Licensed health care professionals should rely on sound professional judgment when recommending dietary supplements to specific individuals. The use of any specific product should always be in accordance with the manufacturer's directions.

ViNitrox® is a registered trademark of Nexira  
Vascaman™ is a trademark of The Glycocalyx Research Institute



## — References —

1. Mockl L. The emerging role of the mammalian glycocalyx in functional membrane organization and immune system regulation. *Front Cell Dev Biol.* 2020;8:253.
2. Iba T, et al. Derangement of endothelial glycocalyx in sepsis. *J Thromb Haemost.* 2019;17:283-94.
3. Van Teffelen JW, et al. Endothelial glycocalyx: Sweet shield of blood vessels. *Trends Cardiovasc Med.* 2007;17:101-05.
4. Butler MJ, et al. The Pathological Relevance of Increased Endothelial Glycocalyx Permeability. *Am. J. Pathol.* 2020;190:742–751.
5. Machin DR, et al. Glycocalyx-targeted therapy ameliorates age-related arterial dysfunction. *Geroscience.* 2023;45(4):2351-65.
6. Machin DR, et al. Glycocalyx-targeted therapy ameliorates age-related arterial dysfunction. *Geroscience.* 2023;45(4):2351-65.
7. Regier M, et al. A Dietary Supplement Containing Fucoidan Preserves Endothelial Glycocalyx through ERK/MAPK Signaling and Protects against Damage Induced by CKD Serum. *Int J Mol Sci.* 2022;23(24):15520.
8. Luthuli S, et al. Therapeutic effects of fucoidan: a review on recent studies. *Mar Drugs.* 2019;17(9):487.
9. Dogne S, Flamion B. Endothelial glycocalyx impairment in disease: focus on hyaluronan shedding. *Am J Pathol.* 2020;190(4):768-80.
10. Wheeler-Jones CPD, et al. Targeting hyaluronan of the endothelial glycocalyx for therapeutic intervention. *Curr Opin Investig Drugs.* 2010;11(9):997-1006.
11. Vetvicka V. Evaluation of immunological activities of an organic freeze-dried inner leaf Aloe vera L. powder. Unpublished Study.
12. Xia EQ, et al. Biological activities of polyphenols from grapes. *Int. J. Mol Sci.* 2010;11:622–646.
13. Allerton TD, et al. L-Citrulline supplementation: impact on cardiometabolic health. *Nutrients.* 2018;10(7):921.
14. Beresewicz A, et al. Ischemic preconditioning and superoxide dismutase protect against endothelial dysfunction and endothelium glycocalyx disruption in the postischemic guinea-pig hearts. *Mol Cell Biochem.* 1998;186(1-2):87-97.
15. Reistma S, et al. The endothelial glycocalyx: composition, functions and visualization. *Pflugers Arch.* 2007;454(3):345-59.