

Oncological Study of Endothelial Glycocalyx Integrity Using Microvascular Health Solutions' Testing Device GlycoCheck

Oncological Patient Study of Endothelial Glycocalyx Integrity Using Microvascular Health Solutions' Medical Testing Device GlycoCheck

CHATTANOOGA, TN, UNITED STATES, August 2, 2022 /EINPresswire.com/ -- Microvascular Health Solutions (MVHS), a [BioRegenx](#) subsidiary, announces that a new peer-reviewed study using GlycoCheck, a medical testing device exclusively distributed worldwide by MVHS, has been published. The study, published by the International Journal of Cardiology, is titled [Endothelial glycocalyx integrity in oncological patients](#). The study was conducted at the National and Kapodistrian University of Athens, School of Medicine, Department of Cardiology, Attikon University Hospital, Athens, Greece, and led by Prof. Ignatios Ikonomidis.

Cancer is associated with early changes in the cardiovascular system (CV) before overt cardiotoxicity. Endothelial dysfunction is induced by chemotherapeutic regimens but prior to this study, there was no data about the endothelial glycocalyx in cancer patients.

Sixty-four patients with cancer (65.6% with solid tumors and 34.4% with hematological



The screenshot shows the article page on the Elsevier International Journal of Cardiology website. The article title is "Endothelial glycocalyx integrity in oncological patients" with a star icon. The authors listed are Kalliopi Keramida, John Thymis, Maria Anastasiou, Konstantinos Katogiannis, Ioannis Kotsantis, Panagiota Economopoulou, Vassiliki Pappa, Panagiotis Tsigotis, Vasiliki Bistola, Maria Thodi, Amanda Psyrris, Gerasimos Filippatos, and Ignatios Ikonomidis. There are options to "Show more", "Add to Mendeley", "Share", and "Cite". The DOI link is <https://doi.org/10.1016/j.ijcard.2022.05.010>. Below the article information, there is a BioRegenx logo and a banner for "GlycoCheck Training: Get Started" featuring a GlycoCheck device and a laptop displaying a software interface.

GlycoCheck

malignancies) and 32 controls from the outpatient cardiology clinic were included in the study.

PBR 5-25 was significantly increased in cancer patients vs controls (2.11 ± 0.36 vs 1.97 ± 0.21 , $p=0.025$). Endothelial glycocalyx thickness impairment was independent of traditional CV risk factors and anticancer therapy but proportional to disease stage ($r=0.337$, $p=0.044$).

Conclusion

The study concludes that endothelial function as assessed by endothelial glycocalyx thickness is significantly impaired in cancer patients without overt cardiotoxicity. This implies that PBR 5-25 might be useful for the early assessment of microvascular and endothelial toxicity of cancer.

[Read the full study here.](#)

About BioRegenx

BioRegenx, Inc., (BioRegenx.com) a holding company, is the parent company of three wholly owned subsidiaries, Microvascular Health Solutions, LLC, My Body Rx, LLC, and NuLife Sciences, Inc. BioRegenx and its subsidiaries combine the patented intellectual property of the breakthrough GlycoCheck medical testing device, the patented nutraceutical Endocalyx Pro, additional synergistic dietary supplement products sold under the My Body Rx brand, and a customer base of medical professionals and brand partners throughout North America.

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