Life Seal Vascular Awarded $1.25M NSF SBIR Phase II Grant to Advance Cygnum™ Device Toward FDA Clinical Trials

IRVINE, CA, UNITED STATES, August 6, 2026 /EINPresswire.com/ -- Life Seal Vascular, Inc. (LSV), a medical technology company developing innovative sealing solutions for endovascular aortic repair, has been awarded prestigious $1.25 million Phase II Small Business Innovation Research (SBIR) grant from the U.S. National Science Foundation (NSF).

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>
> *Matt Thompson MD*

This critical non-dilutive funding allows LSV to further advance its R&D and engineering pipeline, while minimizing equity dilution for existing shareholders ahead of commercialization milestones. The award capital will directly support imminent preclinical development and pre-Investigational Device Exemption (pre-IDE) activities, rapidly accelerating the company's regulatory pathway toward an FDA IDE clinical trial submission and approval.

The award serves as strong federal validation for the commercial and scientific merit of LSV’s proprietary Cygnum™ Aneurysm Sac Management Device (ASMD), which has recently undergone a first in human trial with excellent results. Used as an adjunct to conventional endografts, the Cygnum device targets endoleaks—the primary, multi-billion-dollar clinical failure point in endovascular abdominal aortic aneurysm repair (EVAR). By introducing a predictable approach to sac sealing, LSV is uniquely positioned to establish an entirely new product category within the vascular device industry.

“This Phase II award is an important validation of our scientific progress and the commercial potential of our platform,” said Matt Thompson, Co-Chief Executive Officer of Life Seal Vascular. “This competitive, non-dilutive support allows us to build meaningful company value while remaining focused on our mission to dramatically improve long-term outcomes for EVAR patients.”

This grant is supported by the U.S. National Science Foundation under Award No. 2537986.

About America’s Seed Fund powered by NSF

America’s Seed Fund powered by NSF awards $200 million annually to startups and small businesses, transforming scientific discovery into products and services with commercial and societal impact. Startups working across almost all areas of science and technology can receive up to $2 million to support research and development (R&D), helping de-risk technology for commercial success. America’s Seed Fund is congressionally mandated through the Small Business Innovation Research (SBIR) program. The NSF is an independent federal agency with a budget of about $8.5 billion that supports fundamental research and education across all fields of science and engineering. Learn more at seedfund.nsf.gov.

About Life Seal Vascular, Inc.

Life Seal Vascular develops proprietary sealing technologies designed to manage the aneurysm sac and address endoleaks, improving the long-term safety, durability, and clinical effectiveness of endovascular aortic repair. For more information, visit www.lifesealvascular.com.

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