

## Northwestern surgeons use VISION data to understand the real-world, long-term impact of endovascular aneurysm repair devices

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The Vascular Implant and Interventional Outcomes Network (VISION) provides a unique opportunity to address how advances in medical device technology impact long term outcomes for patients with vascular disease. VISION is a collaboration between the Society for Vascular Surgery Patient Safety Organization (SVS-PSO), the U.S. Food and Drug Administration, and the Medical Device Epidemiology Network (MDEpiNet) linking detailed peri-procedural data with comprehensive long term outcomes to



offer a complete clinical picture related to vascular procedures. Using this data, researchers from Northwestern University Feinberg School of Medicine are seeking to better understand the impact of minimally invasive (endovascular) abdominal aortic aneurysm repair on long term patient survival.

Northwestern surgeons and investigators Dr. Andrew Hoel and Dr. Courtney Furlough are leveraging detailed peri-procedural data linked to comprehensive Medicare claims to explore the long term performance of endovascular aneurysm repair, particularly with respect to any benefit in patient survival. While a great deal is known about the short and intermediate term risks of endovascular aneurysm repair, less is known about the impact of these risks on long term patient survival. This work, being conducted as a collaboration between Northwestern, Cornell, Dartmouth and multiple other institutions, seeks to connect the short and intermediate term procedure risks including the need for post-procedure readmission and reintervention to long-term patient survival. The results of this and other projects within VISION will connect patient factors and device performance with long term outcomes. The better we understand the real-world, longitudinal impact of vascular procedures and vascular devices, the better we can continue to make high quality clinical decisions and advance technology.