

# Endovascular AVF for dialysis access shows high patency rate

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(HealthDay)—A proximal radial artery endovascular arteriovenous

fistula to allow vascular access in patients who require hemodialysis remains highly functional at two years, according to a study recently published online in the *Journal of Vascular Access*.

Gerald A. Beathard, M.D., Ph.D., from the University of Texas Medical Branch in Galveston, and colleagues reported the two-year cumulative patency rate for a multicenter cohort of 105 endovascular arteriovenous [fistula](#) cases. Data were extracted from electronic health records.

The researchers found that a physiologically mature arteriovenous fistula ([blood flow](#)  $\geq 500$  mL/minute and a target vein internal diameter  $\geq 4$  mm) was obtained in 98 percent of cases. In 95 percent of cases, a clinically functional arteriovenous fistula (supporting two-needle [dialysis](#) according to the patient's dialysis prescription) was achieved. In eight cases, there was access failure during the study period. At six, 12, 18, and 24 months, the cumulative patency rate was 97.1, 93.9, 93.9, and 92.7 percent, respectively. A postprocedure patient evaluation indicated a high level of satisfaction.

"The dramatic difference in durability between the endovascular fistulas and the surgically created ones is striking," Beathard said in a statement. "The ability to quickly and easily create a fistula that will last a long time, without surgical trauma or the need for additional procedures, could represent a significant advance in dialysis patient care."

One author disclosed financial ties to Avenu Medical, which manufactures the [vascular access](#) system.

**More information:** [Abstract/Full Text](#)

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