EndoAVF : current status

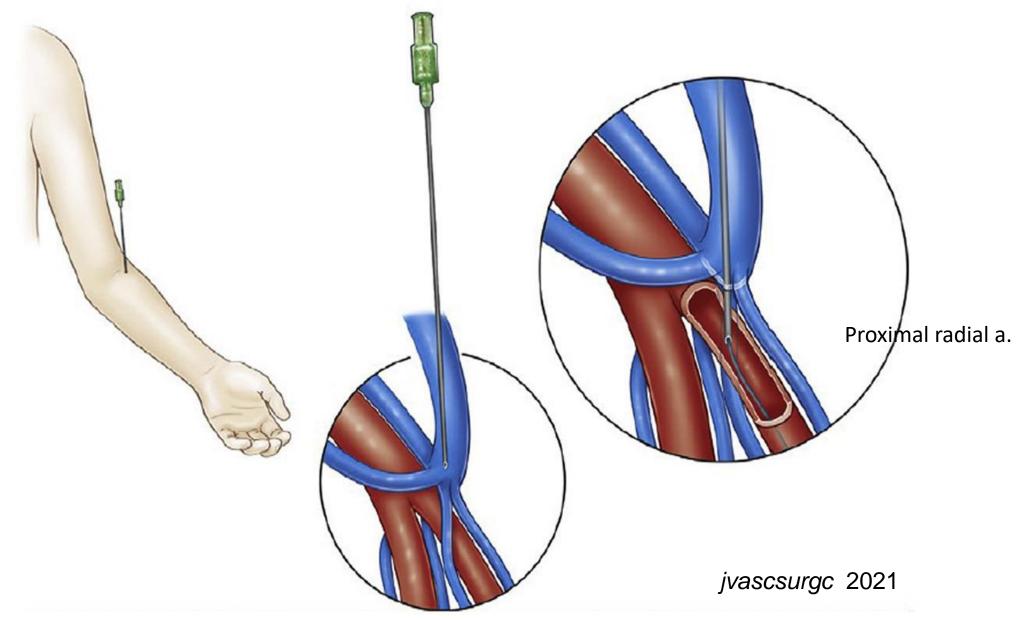
Woon Heo MD, PhD

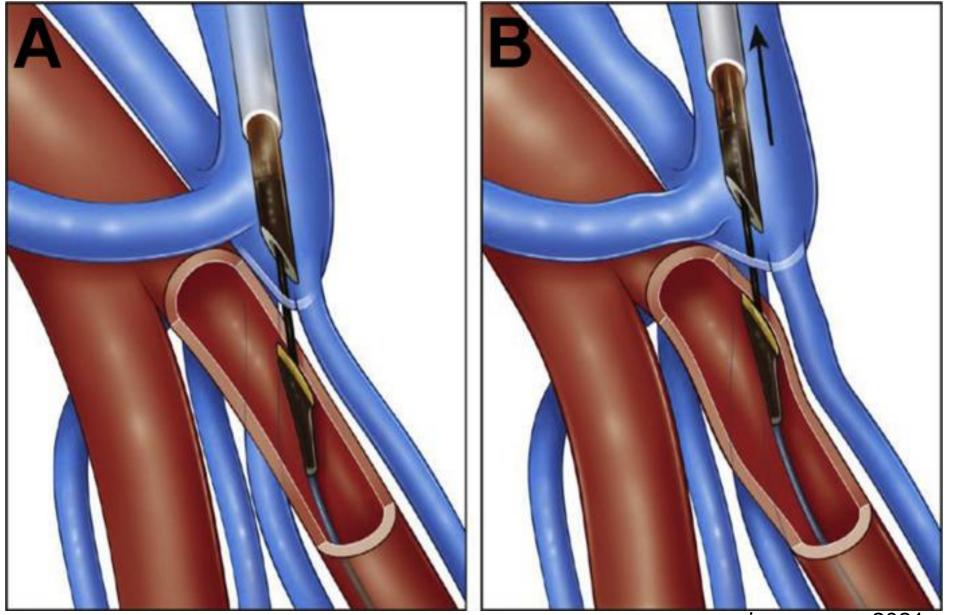
LifeLine Clinic

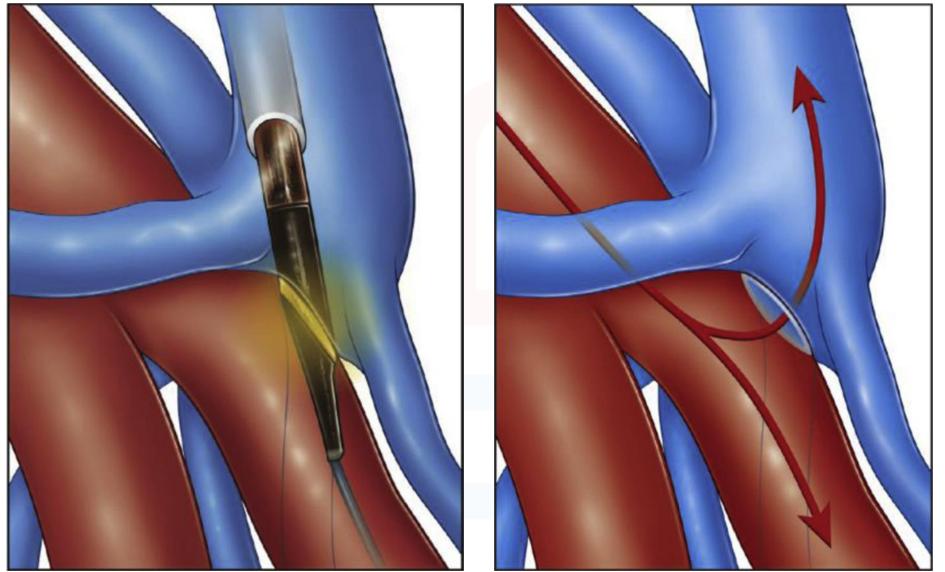


- Ellipsys Vascular Access System
- WavelinQ

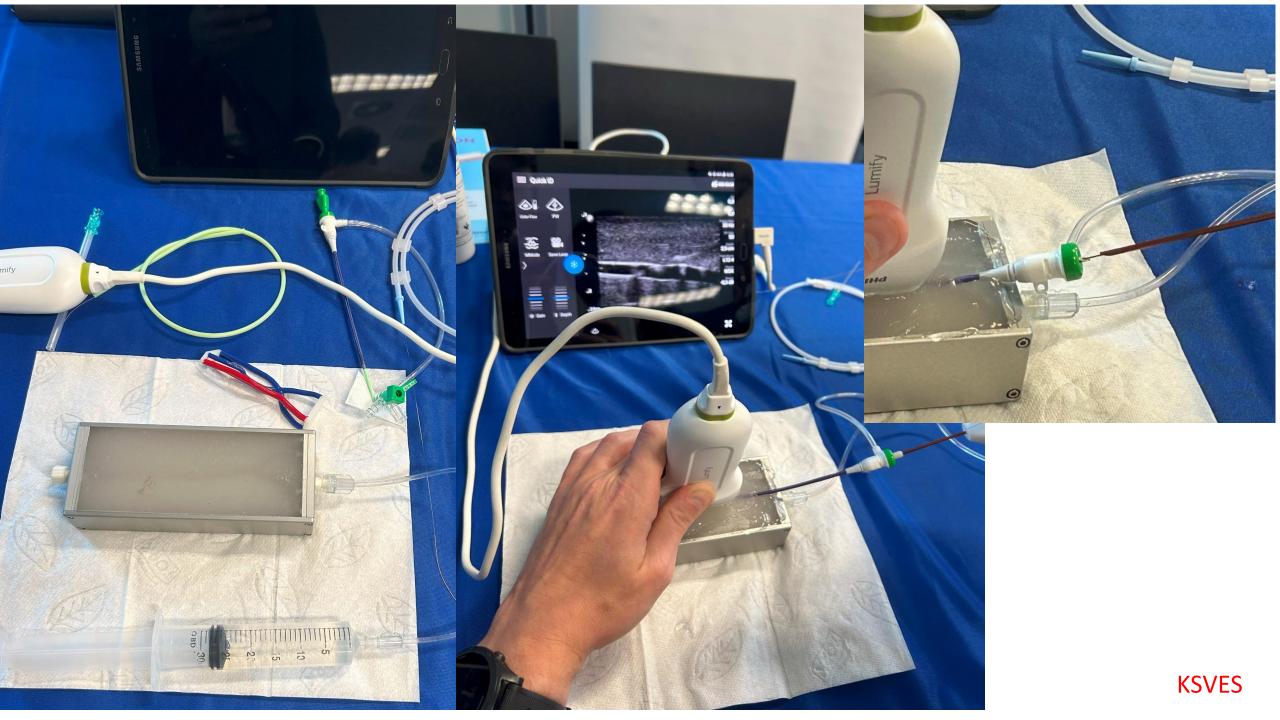
- Contraindications -
- CVS outflow occlusion
- Distance between target artery and vein > 1.5mm
- Target vessels < 2mm in diameter

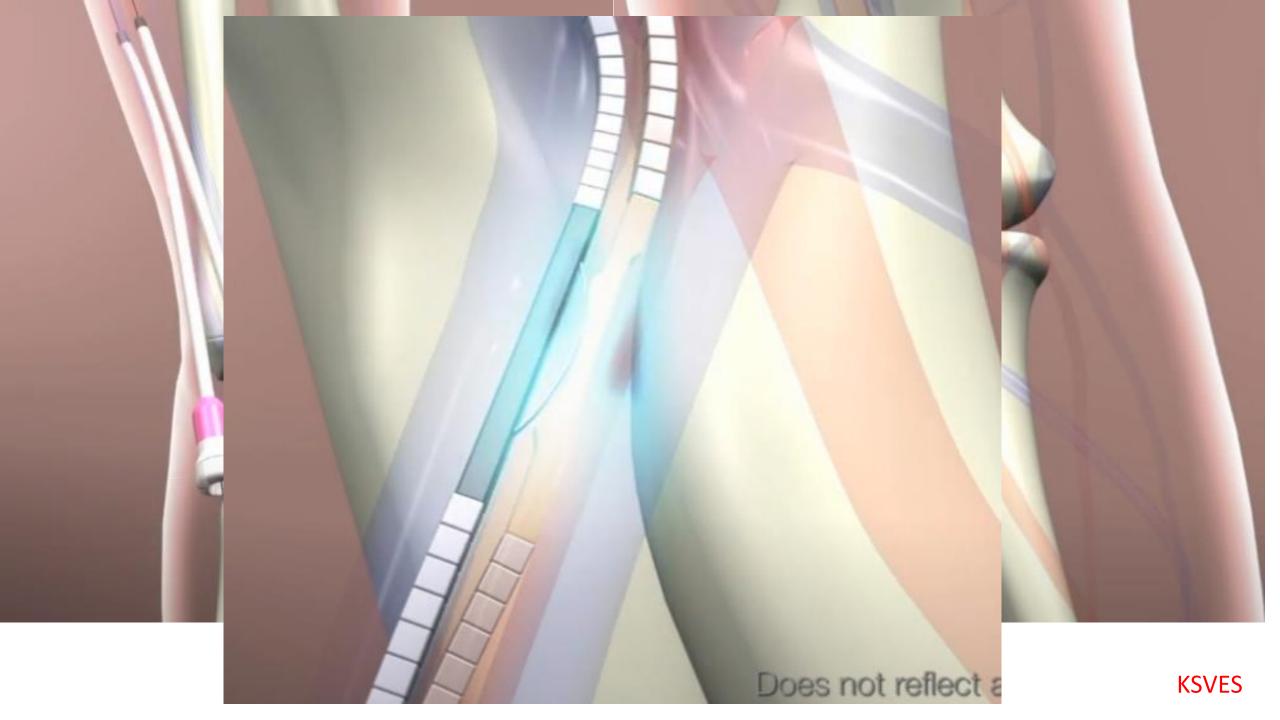


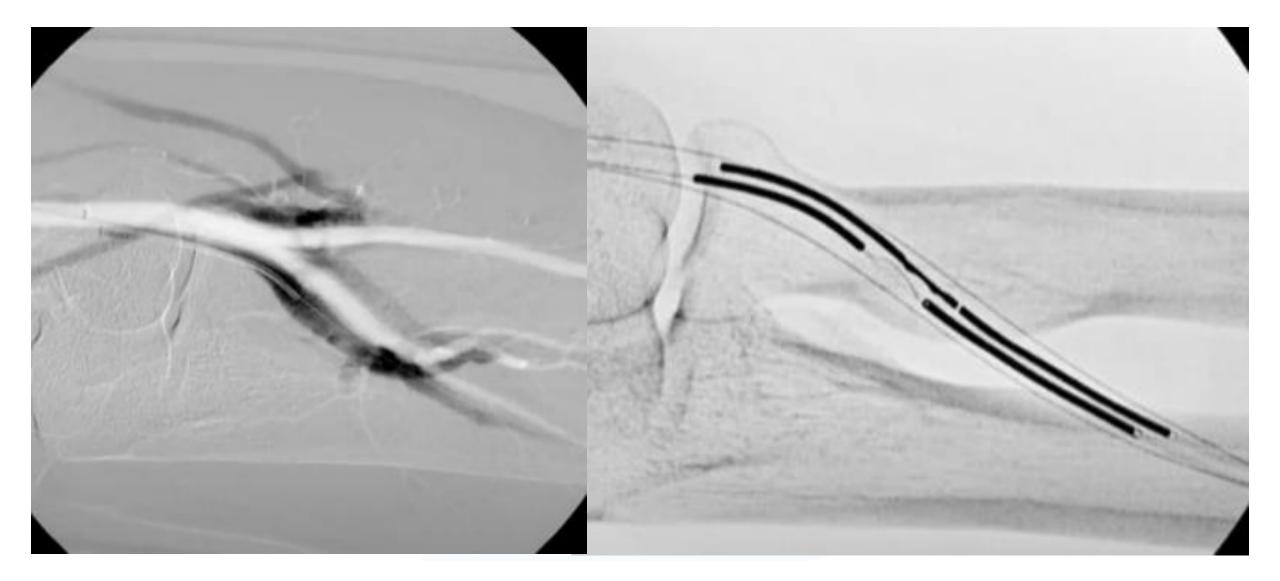




jvascsurgc 2021

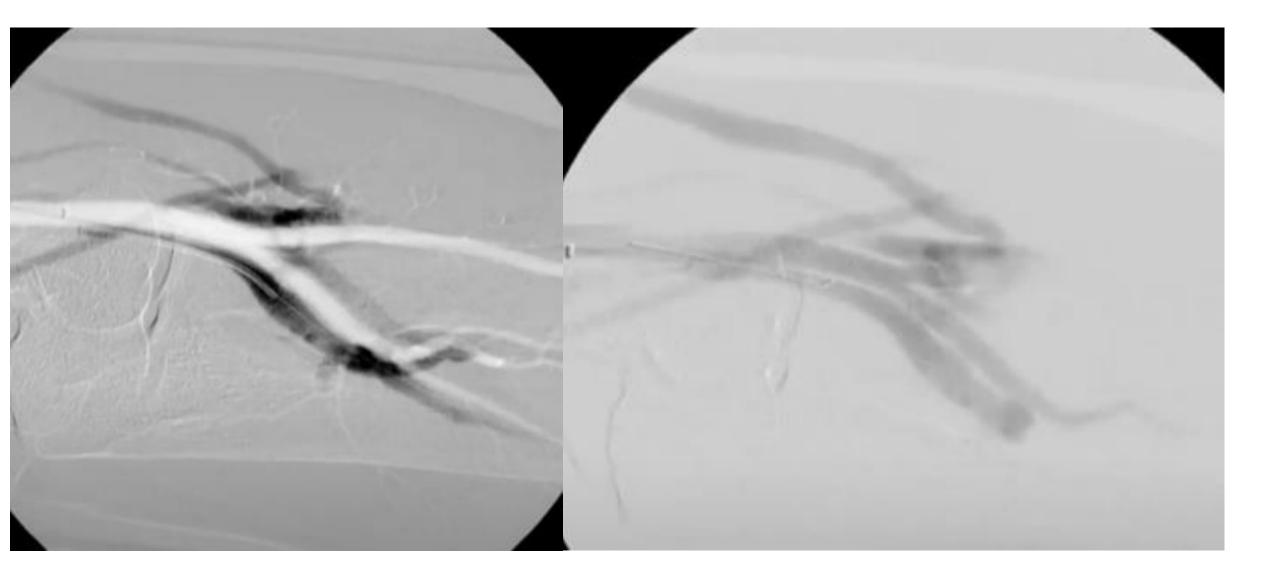
















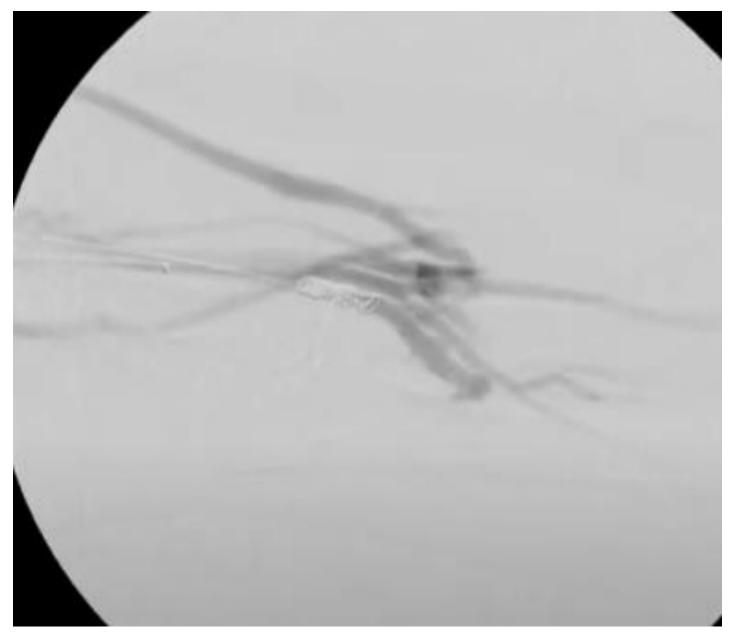
KSVES















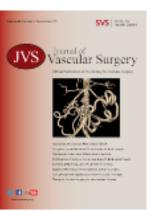


Early results of percutaneous arteriovenous fistula creation with the Ellipsys Vascular Access System



Alexandros Mallios, MD,^a William C. Jennings, MD,^b Benoit Boura, MD,^a Alessandro Costanzo, MD,^a Pierre Bourquelot, MD,^c and Myriam Combes, MD, MBA,^a Paris, France; and Tulsa, Okla 2018 JVS

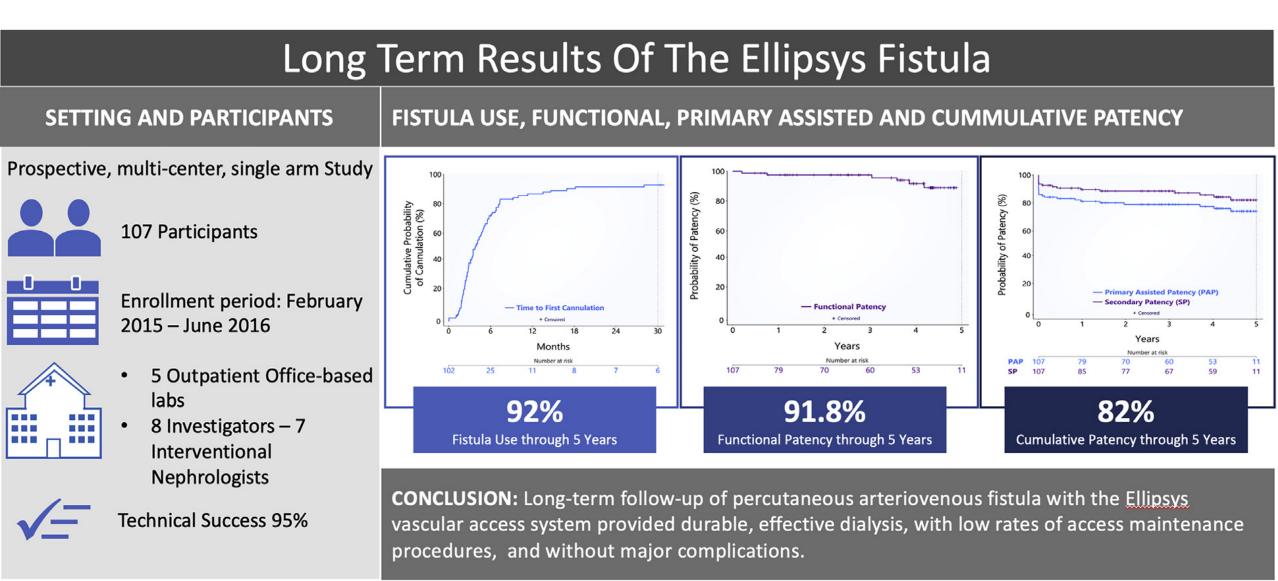
- 2017.5~ 2017.10, 34 pts.
- 97% technical success (33/34)
- Patency: 94%
- Mean access flow (brachial artery): 946 mL/min
- Superficialization (n=1)



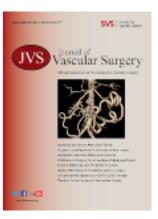
Midterm results of percutaneous arteriovenous fistula creation with the Ellipsys Vascular Access System, technical recommendations, and an algorithm for maintenance 2020 JVS

Alexandros Mallios, MD,^a Pierre Bourquelot, MD,^b Gilbert Franco, MD,^c Hadia Hebibi, MD,^d Hortence Fonkoua, MD,^a Mahmoud Allouache, MD,^a Alessandro Costanzo, MD,^a Romain de Blic, MD,^a Ghazi Harika, MD,^a Benoit Boura, MD,^a and William C. Jennings, MD,^e Paris and Villejuif, France; and Tulsa, Okla

- 2017.5~ 2019.7, 234 pts.
- 99% technical success (232/234)
- 1 year primary: 54%, primary assisted: 85%, 1 year secondary: 96%
- Mean access flow (brachial artery): 923 mL/min
- Early cannulation (<2weeks, 6%, n=14)
- Superficialization (11%, n=24)
- Surgical conversion(later, n=3)



J Vasc Interv Radiol 2022; 33:1143–1150 https://doi.org/10.1016/j.jvir.2022.05.016



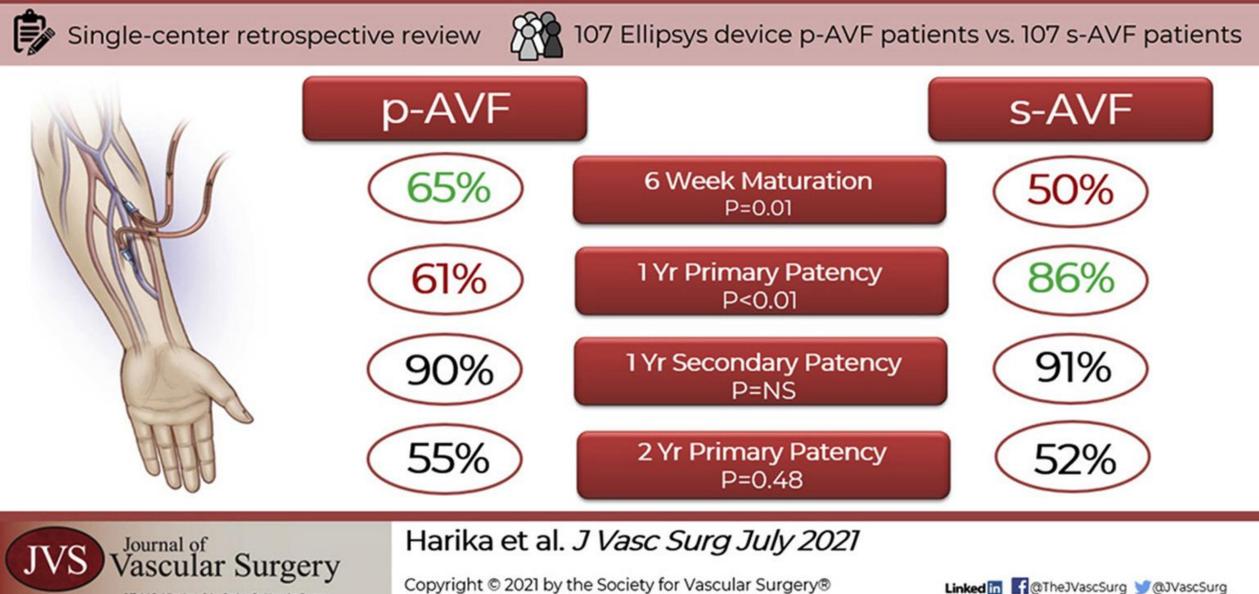
Comparison of surgical versus percutaneously created arteriovenous hemodialysis fistulas

Ghazi Harika, MD,^a Alexandros Mallios, MD,^a Mahmoud Allouache, MD,^a Alessandro Costanzo, MD,^a Romain de Blic, MD,^a Benoit Boura, MD,^a and William C. Jennings, MD,^b Paris, France; and Tulsa, Okla

Conclusions

- Fistulas created percutaneously with the Ellipsys system showed superior maturation rates and similar patency with s-AVFs created in an experienced high-volume vascular surgery practice.
- p-AVFs had a lower risk of wound healing issues, infection, and surgical revision. Larger, prospective, randomized multicenter studies are needed to confirm these findings

Comparison of Surgical (s-AVF) Versus Percutaneously Created (p-AVF) Arteriovenous Hemodialysis Fistulas

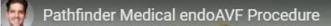


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EndoAVF 2.0... ?







Once aligned, needle crosses between vessels

to End anastomosis is complete

ESKD landscapes: current challenges in the kidner patient journey and quality of life related topics N. Inston

Long-term experience and comparison of distal radiocephalic AVFs with and without the external support device: VasQ[™]

R. Shahverdyan

n

Long-term results of percutaneous AVFs: Are we ready to include it in the guidelines? M Wasse

The all new percutaneous AVF Device: Velocity **D.** Hentschel

Long-Term experience with early-cannulations AVGs and HeRO[™] Graft J. Gilbert

The all new bioabsorbable arteriovenous graft: aXess M. Tozzi

Vascular Acce taneous Fistulc ation

eneration

The Velocity™ Arterio-Venous Original research article

Novel classification of proximal forearm

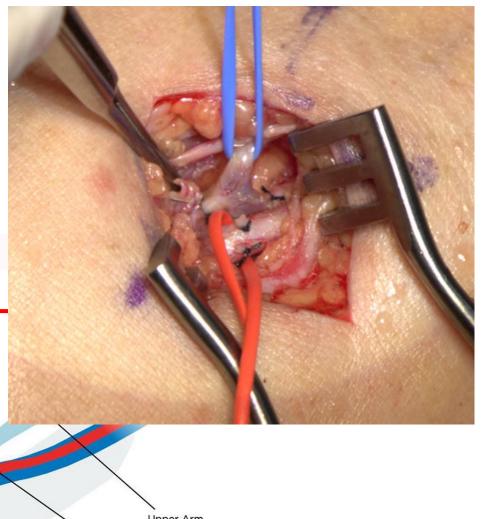
The Journal of Vascular Access 2024, Vol. 25(3) 872-882 © The Author(s) 2022 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/11297298221141480 journals.sagepub.com/home/jva **SAGE**

The Journal of Vascular Access

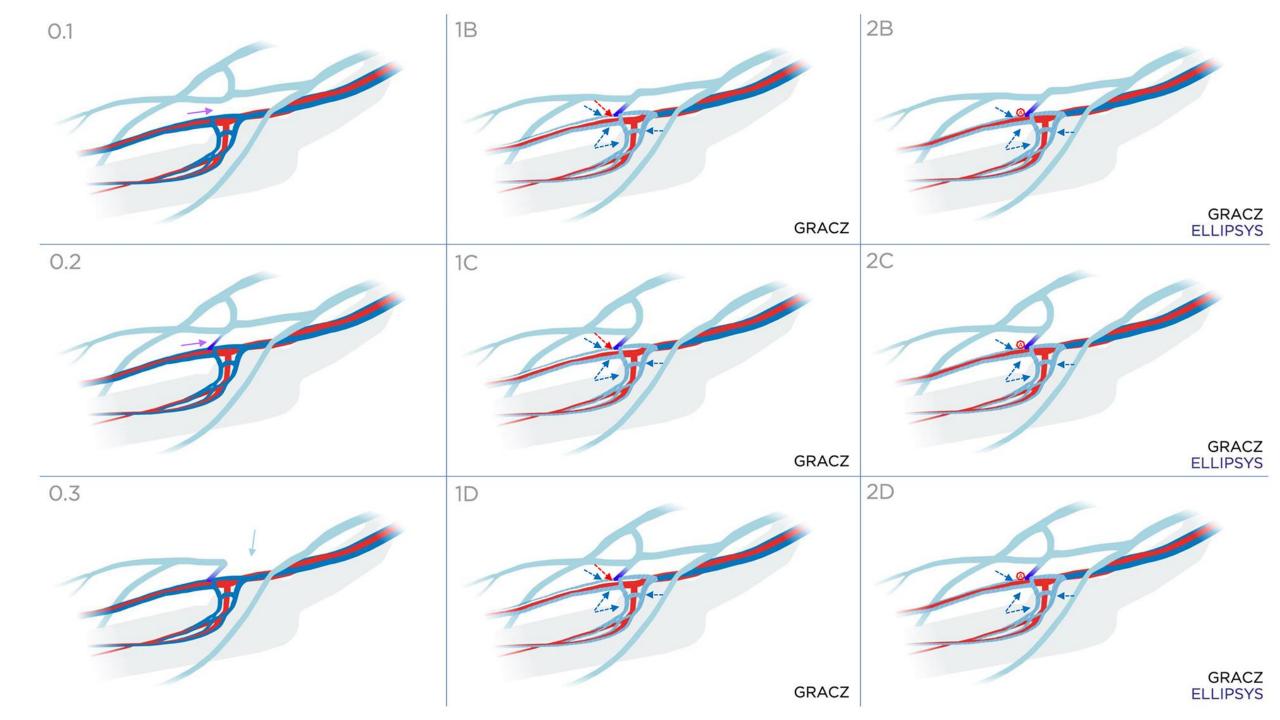
perforator vein in the planning and creation of percutaneous and surgical Gracz-type arteriovenous fistulae

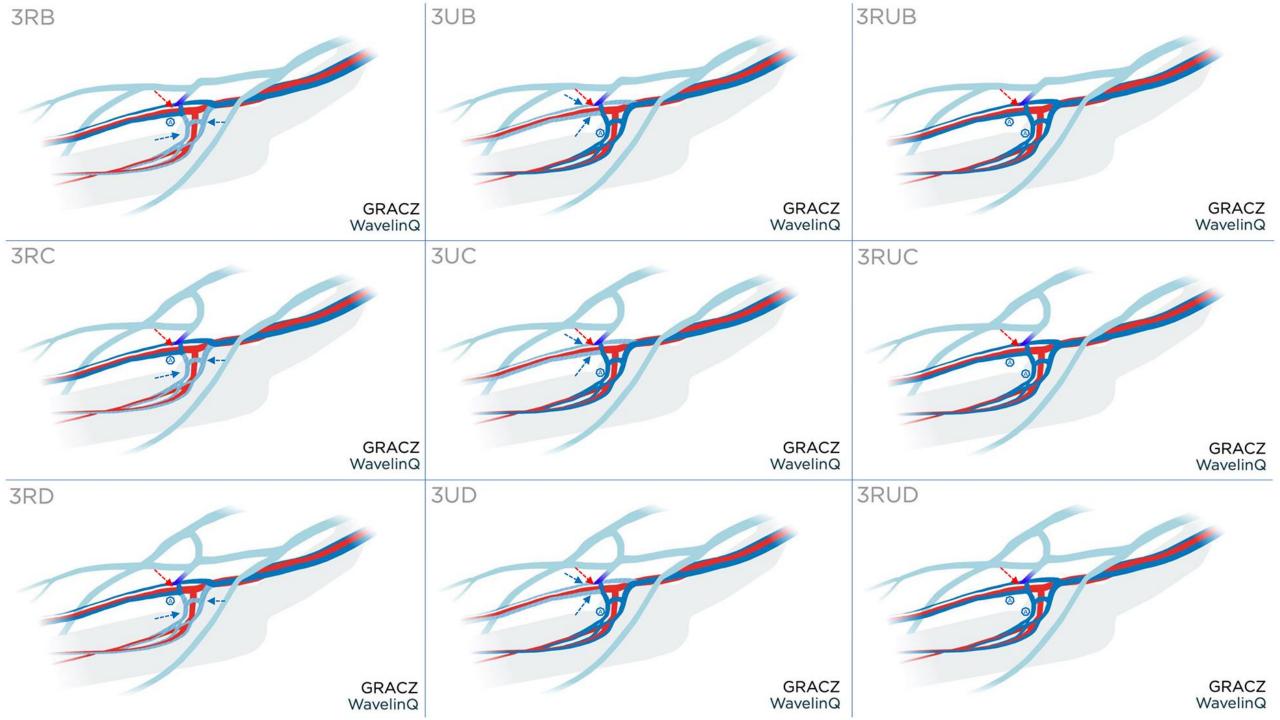
Robert Shahverdyan¹, Klaus Konner², Stephan Segerer³ and Haimanot Wasse⁴

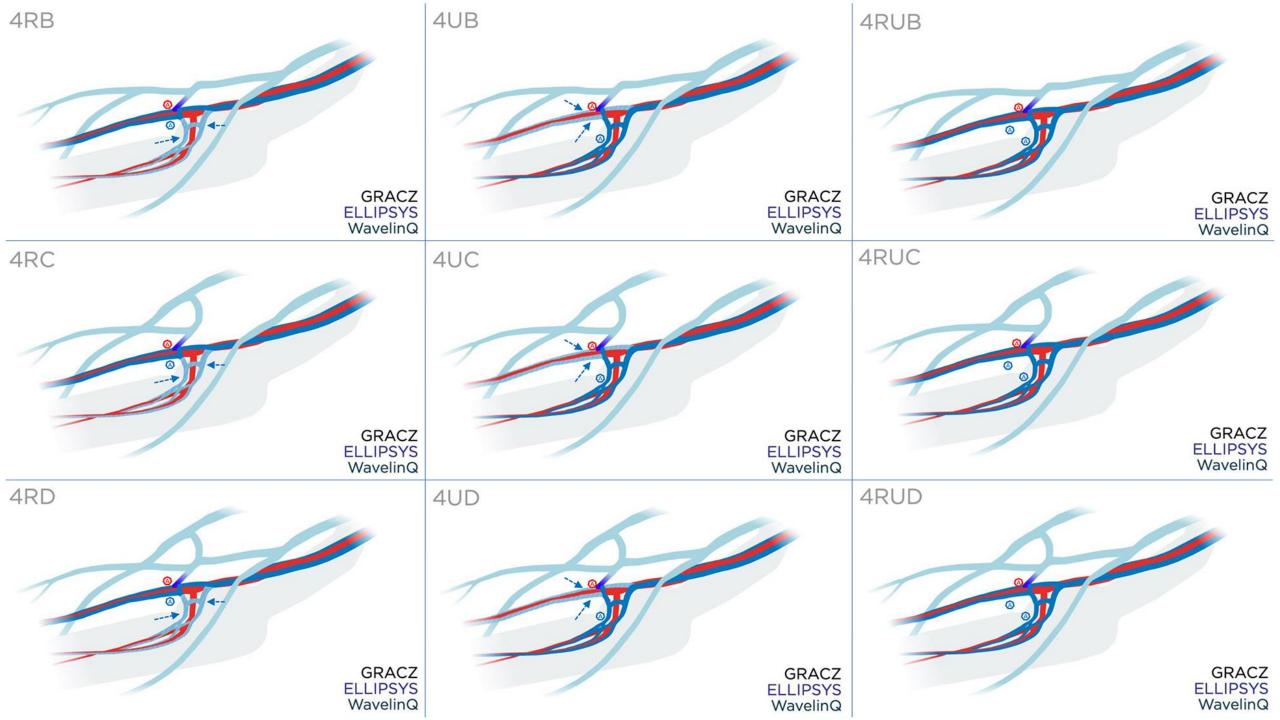
Upper Arm Cephalic Vein Forearm Median **Cephalic Vein** Median Median Perforator Cephalic Cubital Vein Radial (Basilic) Artery/Veins Vein Upper Arm **Basilic Vein** Brachial Artery/Veins Ulnar Artery/Veins Forearm **Basilic Vein**

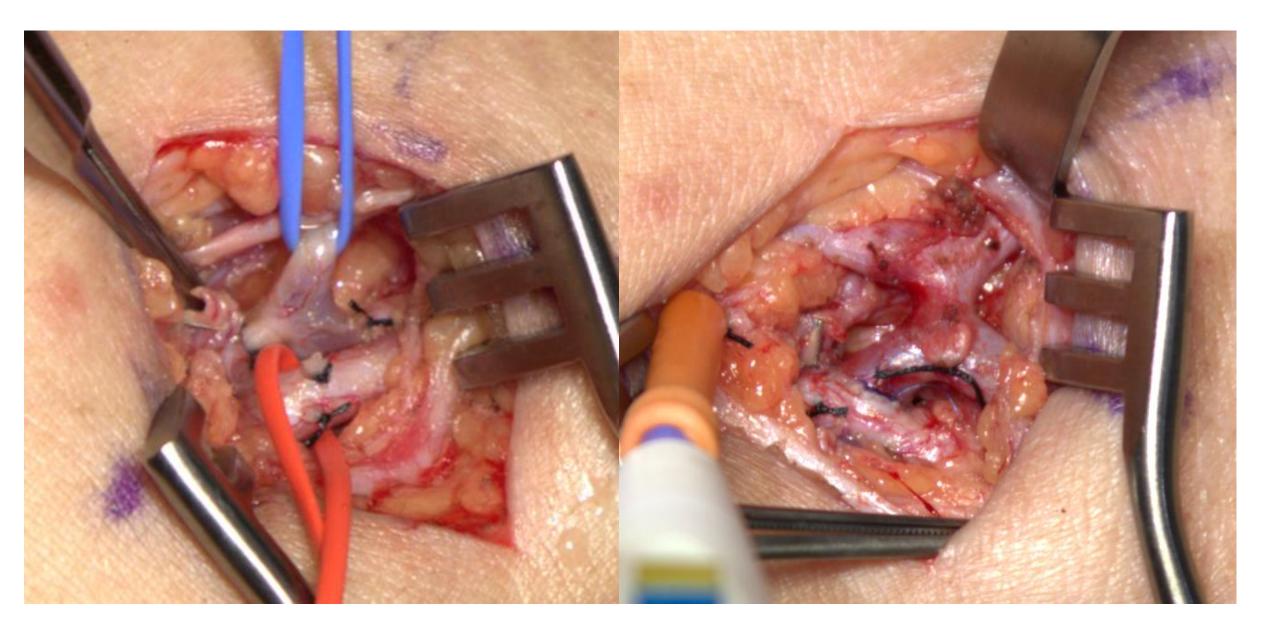


KSVES









Thank you

