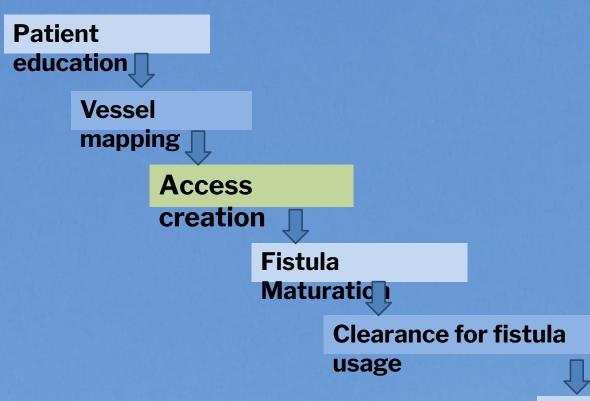


One Access For Lifetime Is it possible???

Naveen Goel, MD, FASN

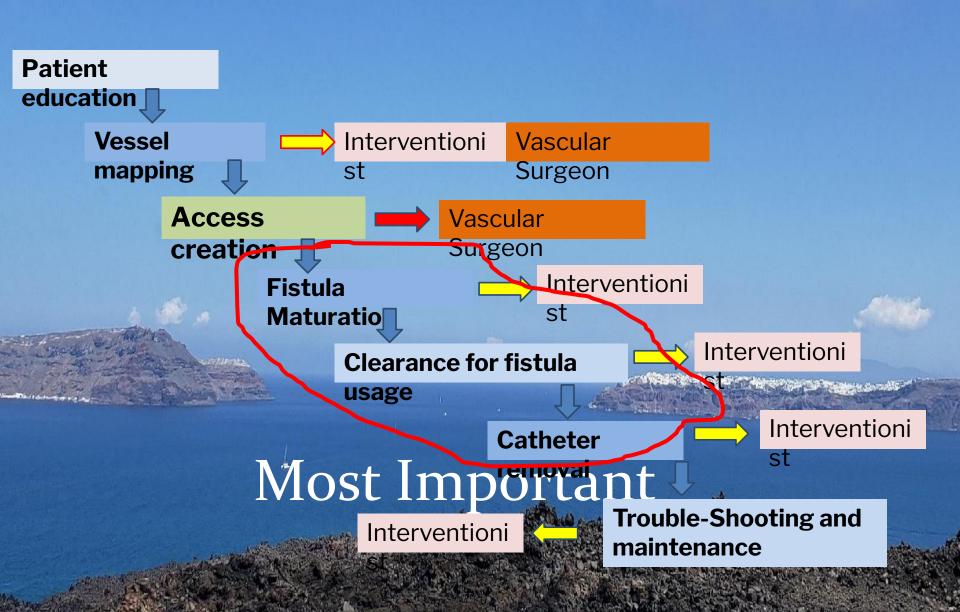
- Maintaining 90 + patients/10 years/ same access
- Considering Mortality Rate of almost 20%
- This is 'Astronomical Success Rate'



Catheter removal

One Access for Lifetime

Trouble-Shooting and maintenance



Cleared by Surgeon



Would you cannulate this fistula?

CALLED SURGEON – insisted to be



Per Surgeon Note
'Do not send patient to Access

Center'



Would you cannulate this fistula?

CALLED SURGEON – insisted to be

used



Per Surgeon

'Do not send patient to Access

Center'

Fistula Cannulation Protocol

Statement: Access plan for each patient will be based on maturity of their fistula.

Equipment: Stethoscope

Tourniquet

Needles: 1 inch 17g, 16g, and 15g

1.25 inch 17g, 16, and 15g

Consider types of safety needles

Assessment:

Access thrill and auscultate bruit every treatment.

Maturation time recommended 8-12 weeks but could be cannulated sooner according to surgeon/nephrologist order.

All new fistulas should be examined by Interventionist, nephrologist, or designated (trained, experienced) staff.

Procedure:

Week 1:

0

0

0

Consider decreasing heparin the first week to decrease possible bleeding.

Prep access per facility procedure.

ALWAYS place tourniquet.

Cannulate with two17gauge needles (Consider position and depth and use appropriate needle length size).

6 KDOQI recommends saline, wet sticks for initial cannulations.

O Blood pump speed per order, not to exceed 200-250ml/min, based on pre-pump arterial pressure <-250.

Blood Pump speed should increase each treatment, not to exceed 300ml/min with 17gauge needles.

Note: Progression to week 2 occurs after 3 consecutive sticks without infiltrates or hematoma.

Week 2:

ALWAYS place tourniquet.

Cannulate with two 16 gauge needles (Consider position and depth and use appropriate needle length size).

May consider wet sticks.

Blood pump speed should start with 300ml/min to increase per treatment, not to exceed 350ml/min, based on pre-pump arterial pressure <-250.

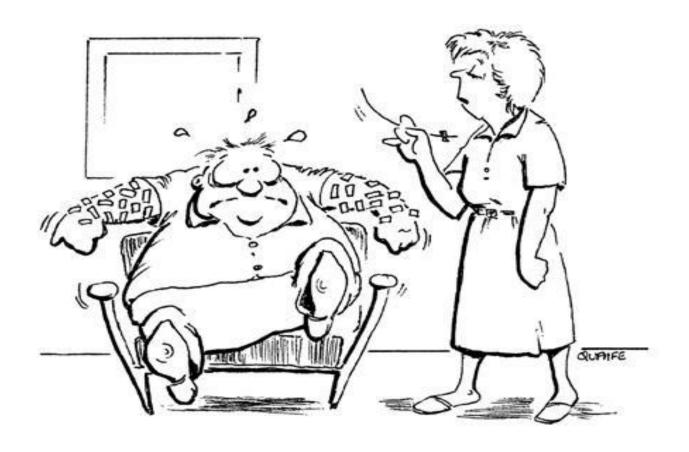
Note: Progression to week 3 occurs after 3 consecutive sticks without infiltrates or hematoma.

Week 3:

ALWAYS place tourniquet.

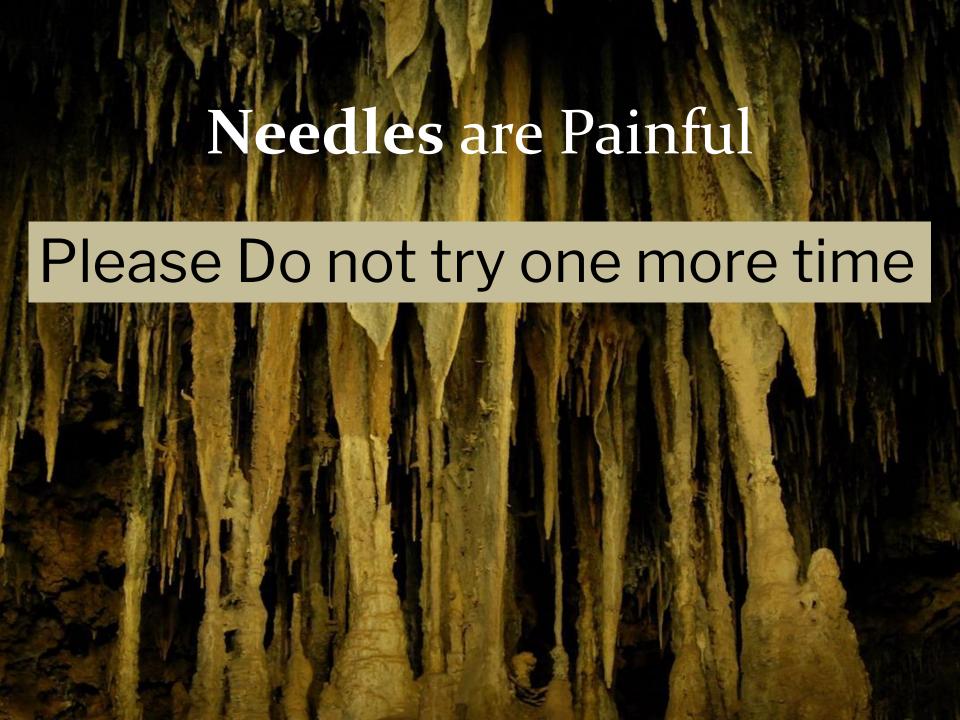
Cannulate with 15 gauge needles (Consider position and depth and use appropriate needle length size).

Blood pump speed can advance to prescribed flow based on needle size and pre-pump arterial pressure <-250ml/min.



Don't worry, I'll find a good site soon.







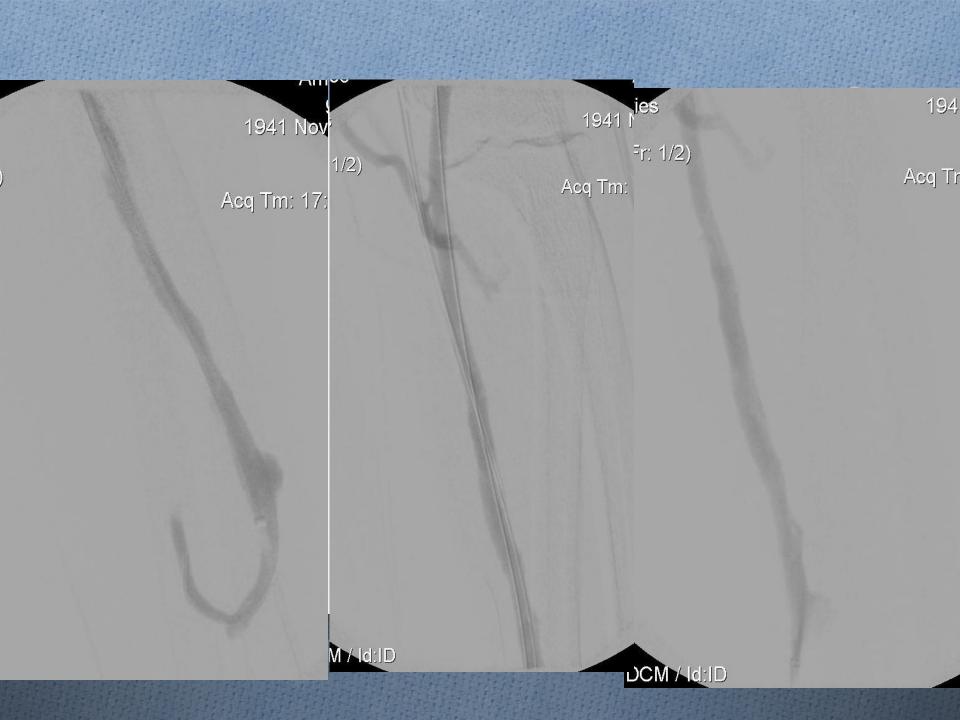
Assessment??

THM:

- 1. Please evaluate the Access on your own...
- 2. Discernible margins if most important rule
- O 3. Do not cannulate if not feeling comfortable
- 4. Refer Early

Immature fistula thrombectomy SAV31 1941 Nov w Series 1941 N /26 Aeg Tm: 15:4) Acq Tm: 1 Lin:DCM / Id:ID L:1754 Id:ID MINIM





Staged sequential dilatation

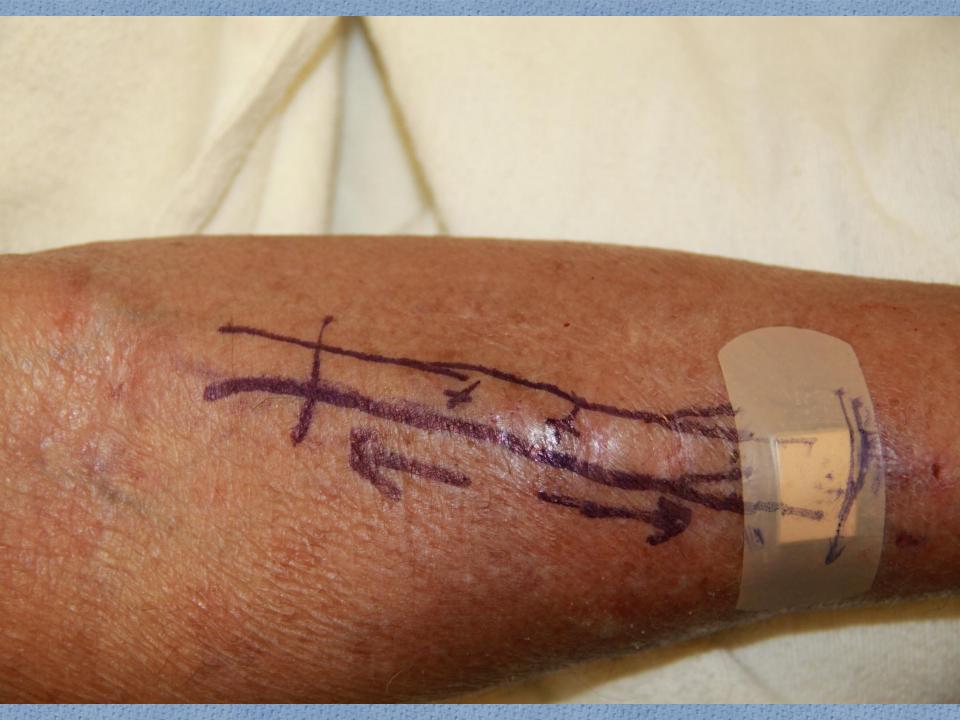


Immature fistula Initial BAM

2 weeks

4 weeks

6 weeks



- The Journal of Vascular Access 2009; 10: 00-00
- © 2009 Wichtig Editore ORIGINAL ARTICLE
- Aggressive approach to salvage non-maturing arteriovenous fistulae: a retrospective study with follow-up
- O Gregg A. Miller1, Naveen Goel2, Aleksandr Khariton1, Alexander Friedman1, Yevgeny savransky3, Ilya trusov1, Kiran Jotwani4, Eric savransky1, Dean Preddie1, William Perry Arnold1
- O Abstract: Purpose: to establish a standardized approach for the maturation of non-maturing arteriovenous fistulae. Methods: consecutive patients (n=122) with non-maturing fistulae presented to our outpatient vascular access center for percutaneous interventions to assist in maturation. the techniques used included flow rerouting, competing branch vein elimination, staged balloon angioplasty, and limited controlled extravasation.
- Results: successful fistula maturations were achieved in 118/122 patients. Fistulae were divided into two classes according to initial vessel size: class 1 (6.0-8.0 mm diameter, >6 mm deep) and class 2 (2.0-5.0 mm diameter) fistulae were evaluated for differences in technical procedures and clinically successful fistula maturation. class 1 and class 2 fistulae were evaluated for mean number of procedures to maturation (1.6 and 2.6, respectively), and time to maturation (5 and 7 weeks, respectively). Follow-up for 109 of the initial 118 patients was achieved (mean=24 months, range=0.25-60 months). class 1 and class 2 fistulae had primary patencies of 17 and 39% at 6 months; and secondary patencies of 72 and 77% at 12 months, 53 and 61% at 24 months, and 42 and 32% at 36 months, respectively. Primary and secondary patencies (Mann-Whitney test, p=0.44 and p=0.38, respectively) of class 1 and class 2 fistulae did not differ significantly, and secondary patencies were comparable to other fistula salvage studies.
- Conclusion: Fistula salvage attempts should not be limited by factors such as









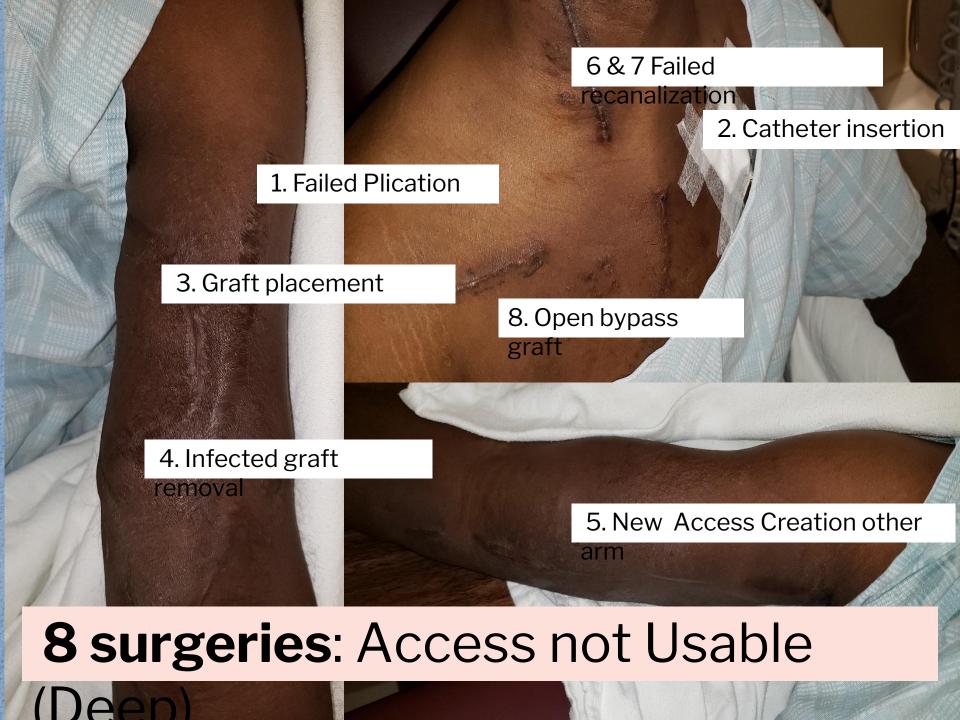




Infection Vs. Pseudoaneurysm?







More Cases??



Button Holes

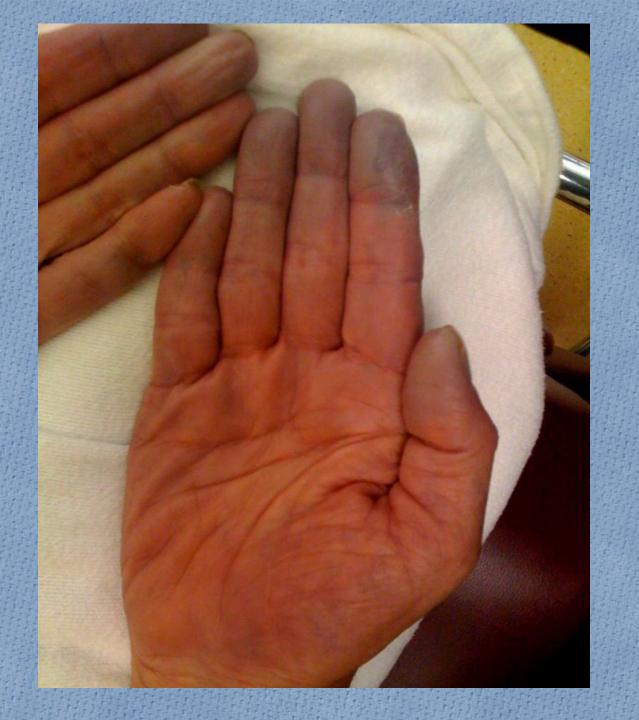


Infected Button Holes



Complications







Mega/ High Output Fistula

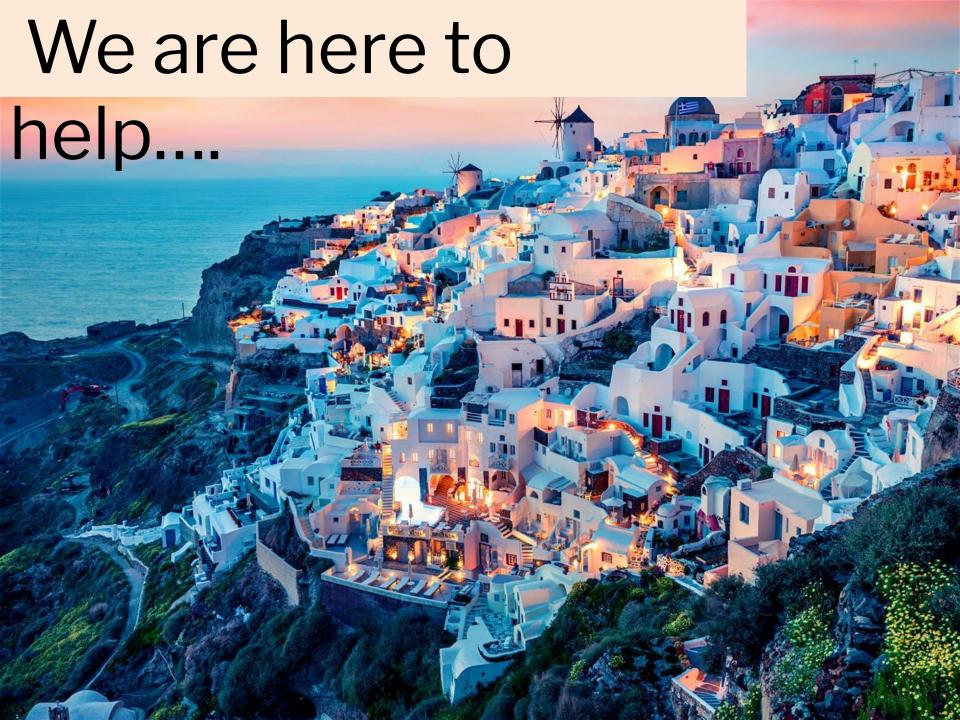


Flow Reduction Procedure









Take Home Messages

- O Call Early Plan Early
- Patient not feeling good needs to go to the hospital
- 0 NPO 6-8 hrs
- Allergies Iodine Premedicate (C/I breathing difficulty)
- Do not send patient home (Transportation problems)
- O Blood thinners (catheter patients)
- Last Dialysis < 4 days (5th day absolute no)
- Insurances
 - O Humana high risk
 - O Care Plus
 - Medicaid / HMO's
 - O Avmed