Algorithm
Permanent Vascular Access
Surveillance/Intervention

Patient Name: ______________________________
Date: ______________________________

Patient Access
AV Fistula or Graft

Routine monitoring without dysfunction?

Yes

Normal Access Function

No

Suspect Access Dysfunction

Symptoms

Refer for Doppler Duplex Scan or Fistulagram

Normal?

High Grade Stenosis ≥ 50%

Graft replacement with AVF, if possible. PTCA Stent Revision.

Repeat Doppler or Fistulagram

Revision successful?

Successful-continue with routine monitoring

Not successful or recurrent thrombosis within 90 days

Surgical revision/Replacement with fistula if not done prior

Clinical Indicators
Arm swelling
Difficult cannulation
Prolonged bleeding
Decreased URR/ Kt/V x2
Recurrent clotting > 2/mth
Dialyzer clotting or poor reuse

Hemodynamic Indicators
Dynamic Flow:
VP>120@BFR 200x3
(for AV grafts)
Inability to achieve BFR
Recirc >15%
Intra-access flow decrease:
<600ml Graft
<450ml Fistula
or drop ≤ 25% below baseline