Evaluation and Follow Up After Interventional and Surgical Therapy of PAD

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Disclosures

• No Disclosures
Rationale for Surveillance

- Early detection of anatomic problems (residual technical issues)
- Improved patency rates of arterial bypass grafts
- Identification of developing lesions for repair prior to failure
- Avoid thrombotic events and other procedure specific adverse events
  - Example: Stroke / Amputation / Organ ischemia

- Cost Effectiveness
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Surveillance After Lower Extremity Arterial Bypass

- Standard of Care
- Integral Part of Vascular Service Line Care
- Components
  1. Clinical assessment for changes in ischemia symptoms
  2. Measurement of ankle / toe pressures (ABI)
  3. Duplex ultrasound imaging
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Surveillance After Lower Extremity Arterial Bypass Surveillance Protocols

- **Testing Schedules**
  - Peri operative (early post operative)
  - 3 month post operative
  - 6 month post operative
  - Annual testing

- **Vein Graft vs. Prosthetic Bypass**

- **Identification of Critical Stenosis ( >70% Diameter)**
  - PSV > 300 cm / sec
  - PSV ratio > 3.5
  - Identification of Flow Abnormalities (slow flow)

Dennis Bandyk
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Surveillance After Lower Extremity Intervention
Rationale for Surveillance

- Failure of arterial reconstructive procedures, whether performed by arterial bypass or endovascular intervention, is an important clinical problem
- Similar mechanisms of failure
  - Early Technical Problems
  - Myointimal Hyperplasia
  - Atherosclerotic Disease Progression
- Improved Patency Rates
- Better Patient Outcomes
- Demonstration of Quality
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Surveillance After Lower Extremity Intervention Developing Protocols

- Follow-up Schedules
  - Post operative
  - Every 3 months first year
  - Every 6 months after first year

- Identification of Critical Stenotic Lesions (>70%)
  - PSV’s > 300 cm/sec
  - Vr > 3.0
  - Uniform low PSV’s (<50)

- Type of Intervention
  - Atherectomy
  - Angioplasty
  - Stent
  - Covered Stent

- Indication for Intervention
  - Claudication
  - Aneurysm
  - C.L.I
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Surveillance After Lower Extremity Intervention Bypass and Interventional Procedures

- Integral component of vascular care
- Should be done using standardized schedules with established objective protocols
- Should improve the patency rates of both bypass grafts and peripheral arteries
Thank You
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