Vascular Surgery 101

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What is Vascular Surgery?

Surgery on Arteries and Veins of the Body

Science Used: Physics, Anatomy, Physiology, Biology, Chemistry, Mathematics
• What Does a Vascular Surgeon Do?
  - Takes care of the entire patient
    • Diagnose patients
    • Treat the condition
    • Follow patients for the rest of their life
• Clinical Disease
  ▪ Aortic Pathology
    • Aneurysm
    • Dissection
  ▪ Peripheral Artery Disease
    • Critical Limb Ischemia
  ▪ Dialysis Access
    • Maintaining Access
  ▪ Venous Disease
• Clinical Disease
  - Aortic Pathology
    • Aneurysm
    • Dissection
  - Peripheral Artery Disease
    • Critical Limb Ischemia
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• Clinical Disease
  ▪ Aortic Pathology
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  ▪ Peripheral Artery Disease
    • Critical Limb Ischemia
  ▪ Dialysis Access
    • Maintaining Access
  ▪ Venous Disease
• Basic Science
  ▪ Molecular pathway for aneurysm degeneration

• Clinical Research
  ▪ Outcomes of interventions for PAD

• Device Development
  ▪ New treatments for vascular conditions
• Education
  • Resident and Fellow Education
    • Ideal Curriculum Structure
  • Simulation Curriculum
  • Vascular Laboratory
  • Transition to Practice
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• Mentoring
  - High School
  - Premedical Societies
  - Medical Students
  - Other Faculty
  - Other Countries
Vascular Surgery is a Very Small Field
What is Vascular Surgery?

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Thank You

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