A Faster Way to the 0.035 Wire: The Punctual Guidewire for Improvement in Arterial and Venous Access

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Presenter Disclosure Information

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Within the past 12 months, the presenter or their spouse/partner have had a financial interest/arrangement or affiliation with the organization listed below.

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• Medtronic, Abbott, AngioScore, Speaker;
• Acist Medical Systems Grant; and
• Verve Medical, Inc., Major Stockholder
• Founder, Arizona Medical Systems
• Owner/Inventor, ORACLE Thrombus Removal System

**Patents**  -- RF, Snares, Wires, Balloon Catheters, Covered Stents, Devices for Arterial Venous Connection, Devices for LV and RV Closure, Vascular Access
Limb salvage requires a multidisciplinary team. The total team effort is important because diabetes and vascular disease affect every system in the body.

A 79 year old gentleman presented with a non-healing plantar ulcer that had been present for three months. Significant clinical history includes the fact that he is a former smoker, has had previous CABG, has Type II Diabetes Mellitus, as well as hypertension. He has moderate dementia, and with the ulcer, has not been able to walk.
Non-healing ulcer
Transpedal Access¹

Dedicated Micropuncture® Pedal Access Set in the dorsalis pedis artery.
Introducing Percutaneous Bypass
PQ Bypass Would Not Have Been Possible Without the Help of Jim Joye, Rich Ferrari and Tom Fogarty
Radial is Important: Outpatient PCI is Being Done more and More

• Everything is moving to outpatient
• Prasugrel and Ticagrelor are game changers
Bleeding complications after PCI have been associated with higher rates of serious clinical events, including death.

Right groin hematoma at femoral puncture site.

Rao, Using Procedural Approaches to Reduce PCI Complications, Journal of Invasive Cardiology, Aug 2009 Vol 21/Suppl A pg. 2A
Vascular Complications

• CMS no longer provides incremental reimbursement for:
  – Hospital acquired UTIs
  – Hospital acquired pneumonia
  -- Hospital acquired DVT/PE

• Hospital Annual Quality Measures:
  – AHRQ Composite Measure for complication/patient safety (includes hemorrhage/hematoma)

• PCI Readmission Rates – possible future quality measures

Source(s) : 1. FY2011 CMS HIPPS Proposed Ruling, CMS-1498-P, April 2010
  2. AHRQ, Patient Safety Quality Indicators Composite Measure Workgroup, Final Report, March 2008
ESC GUIDELINE RECOMMENDS RADIAL APPROACH FOR PCI PATIENTS WITH ACS

ESC gives Class I evidence a recommendation for transradial when coronary angiography or PCI is performed in ACS.
Device Development: Can We Still Build a Better Mouse Trap from an Inventor’s Perspective?

13 million plus vascular access procedures per year in the USA
Punctual Guidewire™
by AMS

Introducing .035 guidewires with the ease of an IV catheter

Stainless Steel .035 Guidewire

Secure Grip Flash Hub

Soft, Polymer Tip

GlideTip Transition

Sid-by-side comparison of needle gauge sizes

18G
21G
24G

32% smaller*
24G Micro Needle

*When compared to a 21G needle
56% smaller than an 18G needle
Pedal Access

- Retrograde wire passage via pedal artery (ultrasound vs angiographic guidance).
- Antegrade snare and externalization of pedal wire
- Reversal of wire; avoid passage of devices via pedal arteries
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