How Accurate is Ulcer Healing Assessment and What Happens When We Are Wrong

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Disclosure Statement of Financial Interest

- I, Raghu Kolluri, have a financial interest/arrangement or affiliation with one or more organizations that could be perceived as a real or apparent conflict of interest in the context of the subject of this presentation.
  - Consultant/ Advisor – UNCOMPENSATED
    - Bard/ BD, Boston Scientific, BTG, Inari, Innovein, Intervene, Janssen, Medtronic, Philips, Vascular Insights, Vesper Medical
  - Board Member – VIVA Physicians Inc, 501c
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2016 AHA/ACC Guideline on the Management of Patients With Lower Extremity Peripheral Artery Disease: Executive Summary

A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines

<table>
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<th>TABLE 2</th>
<th>Hemodynamic Definitions for CLI</th>
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<td>Patient With Tissue Loss</td>
<td>Patient With Ischemic Rest Pain</td>
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<tr>
<td>Ankle pressure &lt; 45 mm Hg</td>
<td>Ankle pressure &lt; 45 mm Hg</td>
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<tr>
<td>Toe pressure &lt; 30 mm Hg</td>
<td>Toe pressure &lt; 30 mm Hg</td>
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<tr>
<td>T/ΔO₂ &lt; 16 mm Hg</td>
<td>T/ΔO₂ &lt; 16 mm Hg</td>
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<tr>
<td>Skin perfusion pressure &lt; 40 mm Hg</td>
<td>Skin perfusion pressure &lt; 10 mm Hg (25)</td>
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</table>

82 Year Old Diabetic Female with Charcot Arthropathy and Mid-foot Ulceration

ABI: 1.12
An analysis of IN.PACT DEEP randomized trial on the limitations of the societal guidelines-recommended hemodynamic parameters to diagnose critical limb ischemia

Mohdi H. Shihabddine, DO, MFH, FIBD; Zarek A. Hatemad, MD; Thomas Zeller, MD; Enis Bumangatan, MD; Diroth Sekhon, MD; and Kristina J. Roach-Bodg, MD, Cleveland, Ohio; Bad Kreuznach and Leipzig, Germany; Bern, Switzerland, and Springfield, IL.
~ 30% of Patients with CLI have Normal ABI


Heterogeneity in ABIs prior to Revascularization for Critical Limb Ischemia

Sukul D, et al. JACC Intervention, 2018

Conclusion

- In approximately 30% of patients with CLI (RC V and VI), ABI is normal or non-compressible.
- > 80% of times non-compressible vessels means either occlusion or severe stenosis
- In the presence of non-healing ulcer, angiogram is the only sure way to assess proper perfusion to the wound in the current era.
- Consider TBI in all patients with RC V and VI.

THANK YOU!!