C.L.I. – The Podiatric Perspective

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Neuropathic Ulcer
5-Year Mortality Rate

References:
Continuing Research: Healing of Diabetic Foot Ulcers After 4 weeks

Percentage of Patients in Whom the Ulcer Healed During the 12 Week Period

Wounds achieving less than 53% closure at week 4 have minimal chance of healing with conventional therapy

Sheehan et al. Diabetes Care. 2001; 25
50% Asymptomatic

http://www.sodahead.com/living/have-you-even-stepped-on-a-nail-or-sharp-object/question-3757514/?link=ibaf&q=&esrc=s
An absent pulse is not sensitive for the early detection of peripheral arterial disease.

- 403 patients
- Mean age of 63.8
- Prevalence of PAD was 16.6%
- Of 82 patients with disease, 76% had a palpable pulse
- Sensitivity 25.1%
- Specificity 98.3%


Collins TC1, Suarez-Almazor M, Peterson NJ.
The accuracy of the physical examination for the detection of lower extremity peripheral arterial disease.

- 1236 – Palpate pedal pulses and auscultation for femoral bruit
- Sensitivity – 58.2%
- Specificity – 98.3%
- NPV – 94.9%
- PPV – 81.1%
- Accuracy - 93.8%


Armstrong DW1, Tobin C, Matangi MF.
Sensitivity and specificity of the ABI to diagnose peripheral artery disease: a structured review.

- ABI ≤ 0.90 in detecting ≥ 50% stenosis
- 2043 patients
- Sensitivity (15-79%)
- Specificity (83.3-99.0%)
- Accuracy (72.1-89.2%)


Dachun Xu1, Jue Li, Liling Zou, Yawei Xu, Dayi Hu, Pagoto SL, Yunsheng Ma.
• Falsely elevated ABI
• False positives
• Misleading results
• 50 partial first ray amputations
• 24 required more surgery
• 12 went on to TMA
Incidence of repeat amputation after partial first ray amputation associated with diabetes mellitus and peripheral neuropathy: an 11-year review.

- 59 partial 1st ray amputations
- 69% subsequent ulceration
- 42.4% underwent more proximal amputation

• 65 TMA’s
• 26% Transtibial amputation

Reuter’s Study

- 32,000 patients with diabetes
- One preventative, pre-ulcer visit
- 29% lower risk of amputation
- 24% lower risk of hospitalization
Each $1 invested in care by a podiatrist for people with diabetes results in $27 to $51 of healthcare savings.
Thank You!!
References

