

MEDCAC Meeting: Lower Extremity Chronic Venous Disease

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Disclosures

- ❖ Consultant for:
 - Smith & Nephew (mild)
 - Mimedx (mild)
 - Osiris (major)
- ❖ President, American Podiatric Medical Association (APMA) (major)

Chronic Venous Insufficiency



- ❖ Congestion of venous system leads to vascular permeability causing local tissue damage from fibrin deposition limiting oxygen and nutrients, trapping of growth factors and release of proteolytic enzymes
- ❖ Account for 70-90% of ulcers found on the lower leg¹⁻²
- ❖ More common than arterial ulcerations
- ❖ 1% or approximately 2.3 million adults in the US have venous ulcers^{1,3-4}
- ❖ 15% never heal with recurrence rate of 15-71%⁵
- ❖ Annual costs of up to \$5 billion to care for VLUs⁵



1 Sen et al Wound Repair Regen 2009 17(6) 763-771

2 Fife C et al Wounds 2007 19:255-257

3 Abbade LP et al Int J Dermatol 2005 44:449-456

4 Anderson et al Wounds 2012 S 2

5 Kistner Wounds 2010 S 3-4

Possible Complications

- ❖ Pain
- ❖ Dermatitis/Color Changes/Trophic Changes
- ❖ Changes to Quality of Life
- ❖ Phlebitis & Thrombophlebitis
- ❖ Ulceration with chronic drainage & infection
- ❖ Loss of Limb
- ❖ Loss of Life

Team Management

- ❖ Podiatric Care
- ❖ Vascular
- ❖ Nursing
- ❖ Plastics
- ❖ Dermatologist
- ❖ Infectious Disease
- ❖ General surgeon



Conservative Care

- ❖ Local Care - (Debridement/collagens)
- ❖ Compression stockings
- ❖ Compression Therapy-
 - (Multi-layer dressing)

Advanced Care-Conservative

❖ Biologics – With & Without Compression

- Apligraf
- Epifix
- Grafix



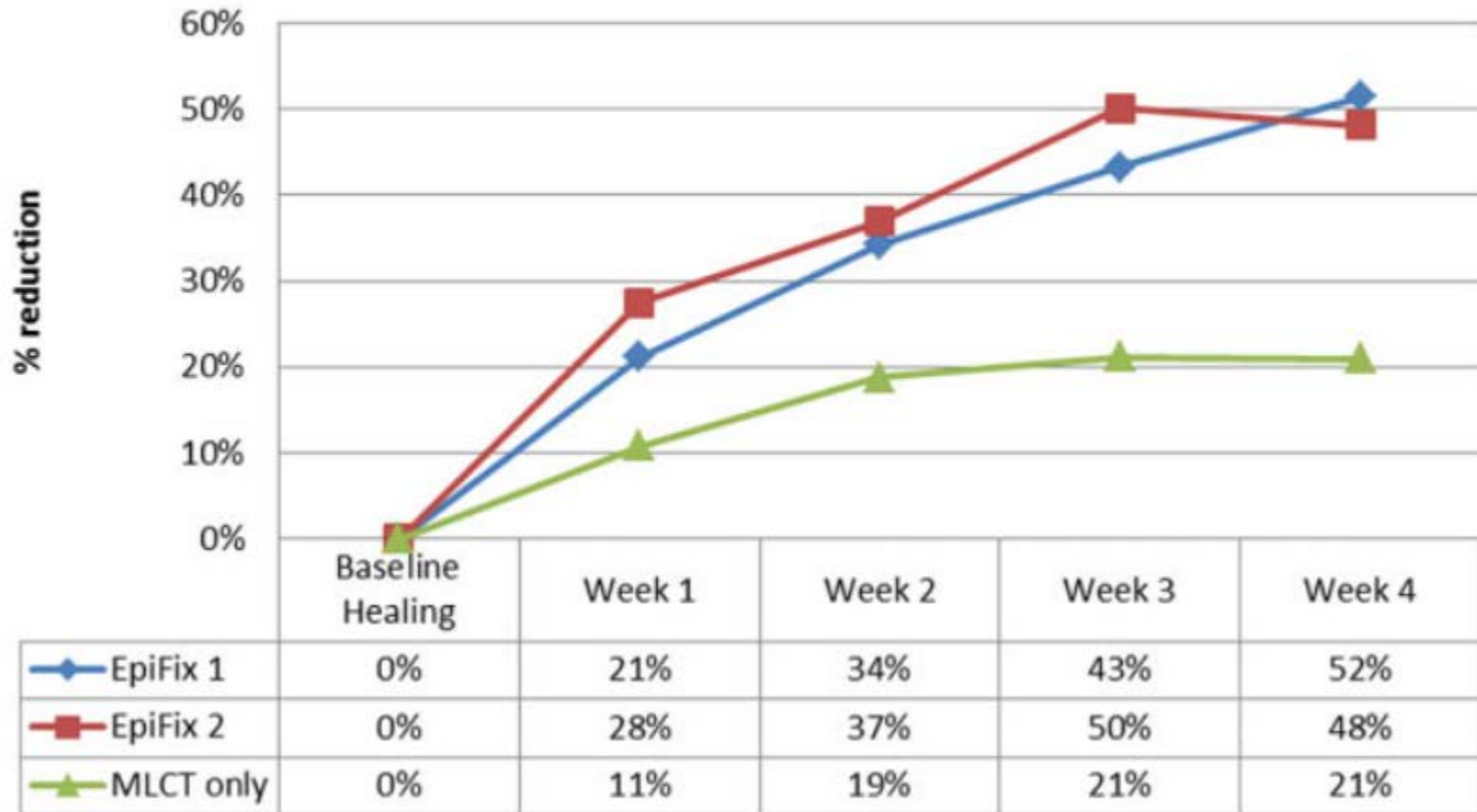


Technology can make a difference

Advanced Care

- ❖ Surgical
- ❖ Surgical & Local Care
- ❖ Surgical & Biologics

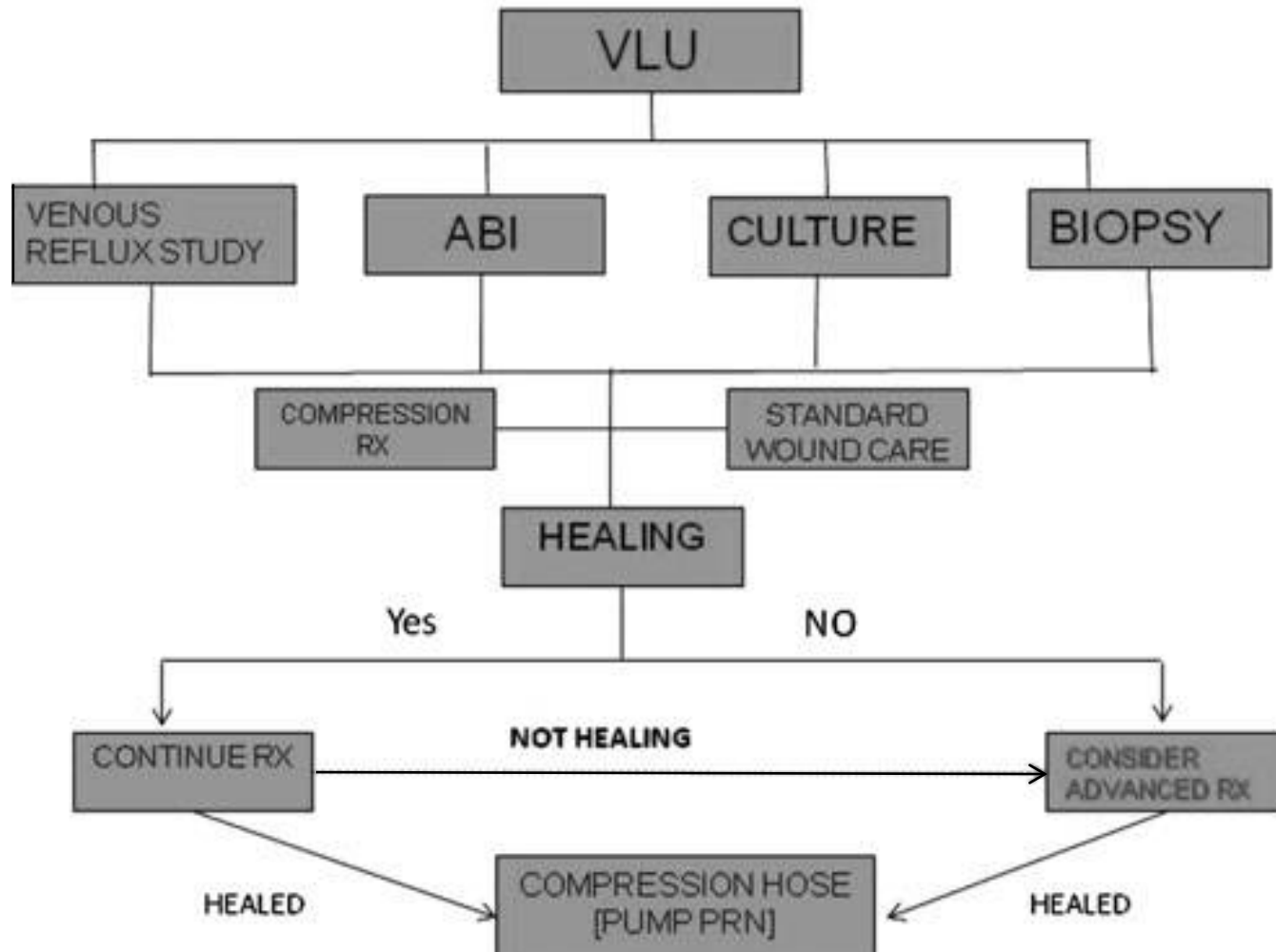
Mean Percent Reduction in Wound Size



Mean percent reduction in wound size during the 4-week study period.⁶

⁶Serena TE, Carter MJ, Le LT, Sabo MJ, DiMarco DT. A multicenter, randomized, controlled clinical trial evaluating the use of dehydrated human amnion/chorion membrane allografts and multilayer compression therapy vs. multilayer compression therapy alone in the treatment of venous leg ulcers. Wound Rep Reg 2014; 22: 688–693.

Simplified VLU Algorithm ⁷



⁷Frykberg & Banks, Challenges in the treatment of chronic wounds. Advances in Wound Care, 2015, 4: 560-582

NEEDS:

- ❖ Research
 - Independent
 - Industry sponsored
- ❖ Administer advanced care sooner when warranted
- ❖ Utilize a team approach on management

Questions?