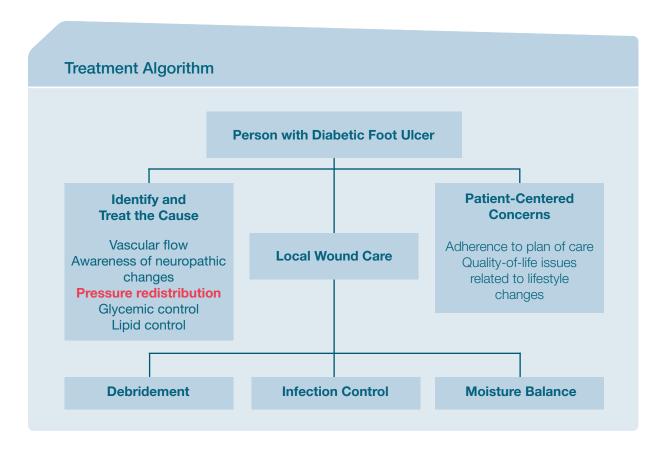




ASSESSMENT AND TREATMENT OF THE DIABETIC FOOT ULCER.

The Canadian Association of Wound Care has developed Best Practice Recommendations for the Prevention, Diagnosis and Treatment of Diabetic Foot Ulcers¹ and recommends the following treatment algorithm², in which pressure redistribution is a key component in treating the cause.



THE IMPORTANCE OF OFFLOADING

Pressure is a factor in 90 percent of diabetic plantar ulcers, and the pressure must be modified or removed. Pressure-induced ischemia occurs in tissues over bony areas of weight-bearing during ambulations and standing. Neuropathy prevents the perception of protective pain, resulting in a increased potential for tissue breakdown. Diabetic plantar ulcerations require aggressive and effective downloading in order to achieve wound healing.³

¹ Heather L. Orsted, RN, BN, ET, MSc; Gordon Searles, OD, MD, FRCPC, FACP; Heather Trowell, BSC, OT (c); Leah Shapera, RN, MSN; Pat Miller, RN, ET, and John Rahman, Certified Orthotist.

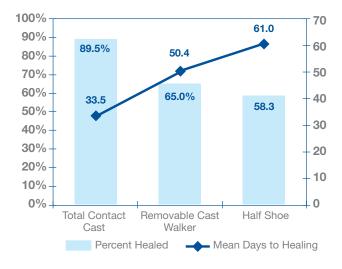
² Sibbald RG, Orsted HL, Schultz GS, Coutts P, Keast D. Preparing the wound bed 2003: Focus on infection and inflammation. Ostomy/Wound Management. 2003;49(11):24-51.

³ Nursing Best Practice Guideline: Assessment and Management of Foot Ulcers for People with Diabetes. Toronto: RNAO. 2004

THE OFFLOADING GOLD STANDARD: TOTAL CONTACT CASTING⁴

THE SUPERIOR CLINICAL EFFECTIVENESS OF TCC IS INDISPUTABLE

A study by Armstrong et al.⁵, involved 63 patients with non-infected neuropathic plantar foot ulcers and compared the TCC with a removable cast walker and a half shoe



Mueller et al.⁶ also demonstrated that a group treated with TCC showed 90.4% healing rate in an average of 33.5 days, as the non-TCC group showed 31.5% healing in an average of 65.0 days.

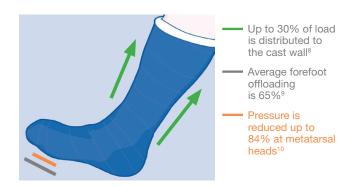
Those are just a few examples of the clinical evidence available supporting the use of total contact casting as pressure offloading device. In short:

- 18 studies (4 randomized) show total contact casting results in consistent healing of active diabetic foot wounds from 36-52 days for 85-95% of patients.
- A meta-analysis of 526 ulcers in 493 patients presented by Peter Cavanagh at the 2000 American Diabetes Association 60th Scientific Sessions, showed TCC use resulted in 88% healing in mean time of 43 days.

TOTAL CONTACT CASTING FORCES COMPLIANCE

Armstrong et al.⁷ demonstrated that patients using removable cast walker for off-loading wore their device on average during only 28% of their total daily activity, and even the subset most adherent to their off-loading regimen still only wore the device for a total of 60% of their total daily activity. This highlights a key advantage of the total contact cast: it is a non-removable device, which the patient must wear 100% of the time, therefore increasing treatment efficacy.

OFFLOADING WITH A TCC



- 4 American Diabetes Association. Consensus development conference on diabetic foot wound care. Diabetes Care 1999;22:1354-60.
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- 6 Mueller et al. Total contact casting in treatment of diabetic plantar ulcers. Controleed clinical trial. Diabetes Care, 1989 Jun: 12(6):384-8.
- 7 Armstrong DG, Lavery LA, Kimbriel HR, et al. Activity patterns of patients with diabetic foot ulceration: patients with active ulceration may not adhere to a standard pressure off-loading regimen. Diabetes Care 2003;26:2595-7 8 Shaw, J.E., et al. The mechanism of plantar unloading in total contact casts: implications for design and clinical use. Foot Ankle Int, 1997. 18(12): p. 809-17.
- 9 Hartsell HD, Fellner C, Frantz R, et al. The repeatability of total contact cast applications: implications for clinical trials. J Prothèses et orthèses 13 (1):4-7, 2001.
- 10 Birke, JA, Sims DS, Buford WL. Walking casts: effect on plantar foot pressures. J Rehabil Res Dev 22:18-22, 1985.



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