

TCC-EZ – Total Contact Casting System Addresses the Barriers to Utilizing a Proven Gold Standard Treatment

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Abstract: TCC-EZ – Total Contact Casting System Addresses the Barriers to Utilizing a Proven Gold Standard Treatment

Purpose: A Total Contact Casting system, TCC-EZ, addresses barriers preventing use of total contact casting for diabetic complications. Barriers include 1) application time, 2) complexity, 3) costs, and 4) complications.

Methods: TCC-EZ was applied on 100 patients from 7/07-10/07 by six physicians. Time applying the cast was assessed as well as application complexity.

Results:

- 1) Time of application: TCC-EZ was 75 seconds compared to 452 seconds (7:32) for application of a traditional total contact cast. Average time of set up, cast application, and drying time was 21 minutes for the 100 cast applications.
- 2) Complexity of Application: The “roll on nature” of the cast requires no learning curve for applying. Six doctors applied 100 TCC-EZ’s without prior utilization or training. Applying the TCC-EZ in 75 seconds illustrates non-complexity of the procedure.
- 3) Material costs: Compared to current modalities; Negative Wound Pressure Treatments, Skin Substitutes, and growth factor therapy, TCC-EZ is cost effective.
- 4) Complications associated with TCC’s: Studies have shown with consistency of application, patient positioning, protocols adherence, and patients selected, TCC complications are low.

Conclusions: The TCC-EZ significantly reduces barriers for use with the fiberglass application taking 75 seconds, no learning curve, cost of materials minimal compared to other modalities, and minimize complications. The TCC-EZ affords the clinician in a busy clinic the ability to apply TCC’s in an efficacious manner while addressing traditional barriers preventing its use.