

Reusable Total Contact Orthotic



Diabetic Foot Disease (Lazzarini)
85 Amputations each week
27 Deaths each week

Off Load

Allan Donnelly



Total Contact Cast “Gold Standard”



Off loads ulcer - < Peak Plantar pressures
Contours exactly to plantar surface

- ▶ Skill to apply
- ▶ Approx \$200
- ▶ Time consuming
- ▶ Difficult for regional and remote
- ▶ Destroyed on removal

Removable Boot + Felt

Easy to apply

Loses effectiveness-Felt flattens quickly
(not cheap either)

Ugly with a highly exudating wound or
humid climate



Old school Moulded Accommodative Orthotic + Cam Walker Boot = Total Contact Cast





Elastic bandage



Low tech
Materials readily available
Skills easy to teach and learn



Costs??

\$3,500 my costs

POP 2.5 kg \$5 Bunnings

POP Bandage \$7.50

Cam Boot \$125

Effective

Easy to make

Cheap

Washable

Long lasting

Easy to replace and modify



Regional – Rural – Remote – Indigenous Cast in community – Aus Post – P&O Lab – Aus Post – Fit in Community



Mentors/Team – Where to from here with \$5,000

- ▶ TCH HRSF Supervised study



Queensland Orthotic Laboratory



- ▶ TCC
- ▶ Gold Standard
- ▶ Expensive
- ▶ Highly skilled
- ▶ Tertiary centre limited
- ▶ Time consuming
- ▶ Hard to review wound
- ▶ Easy to cause more problems

- ▶ Allan's modified TCO
- ▶ As effective as TCC
- ▶ Any location
- ▶ Easy to learn
- ▶ Easy to review wound
- ▶ Cheap
- ▶ Low tech
- ▶ Hard to get it wrong

Highlights

- ▶ Great outcome for the patient
- ▶ Easy to take the cast and fabricate the TCO
- ▶ Off Loading boots are cheap and readily available
- ▶ Low tech materials and cheap
- ▶ Is as effective as a TCC and significantly cheaper and easier
- ▶ Easy access for regional, rural and remote communities
- ▶ Access to Gold Standard off loading anywhere in the world

