



Wounds Australia 2018

ADVANCING HEALING HORIZONS:
TOWARDS THE CUTTING EDGE IN WOUND CARE

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Helping Compression Concordance: A scoping literature review of approaches to aid compression application and removal

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Declaration of Financial Interests or Relationships

Speaker Name: Bill McGuiness

I have no financial interest or relationship(s) to disclose

Background

- Compression therapy main stay for chronic venous insufficiency
- Has been shown to heal VLU's and prevent recurrence
- BUT
- Non-compliance with compression ranges from 2 to 80% with higher levels found in 'real world' studies
- Similar for lymphedema and burn patient populations

O'Meara S, Cullum N, Nelson EA, Dumville JC. Compression for venous leg ulcers. *Cochrane Database Syst Rev.* 2012;11:CD000265

Eberhardt RT, Raffetto JD. Chronic venous insufficiency. *Circulation.* 2014;130(4):333–46

Moffatt C, Kommala D, Dourdin N, Choe Y. Venous leg ulcers: patient concordance with compression therapy and its impact on healing and prevention on recurrence. *Int Wound J.* 2009;6(5):386–93

Szabo MM, Ulrich MA, Duncan CL, Aballay AM. Patient adherence to burn care: a systematic review of the literature. *Burns.* 2016;42(3):484–91

Aim

- To explore contemporary research concerning the application and removal of compression garments



Scoping literature review search strategy

- **Key terms:**

Compression
AND (garment OR stocking* OR therap* OR banag* Or system*)*
AND (appli OR remov* OR don* OR doff*).*
AND (ulcer OR venous OR burn* OR lymph*)*

- **Electronic Databases:** Medline and CINAHL

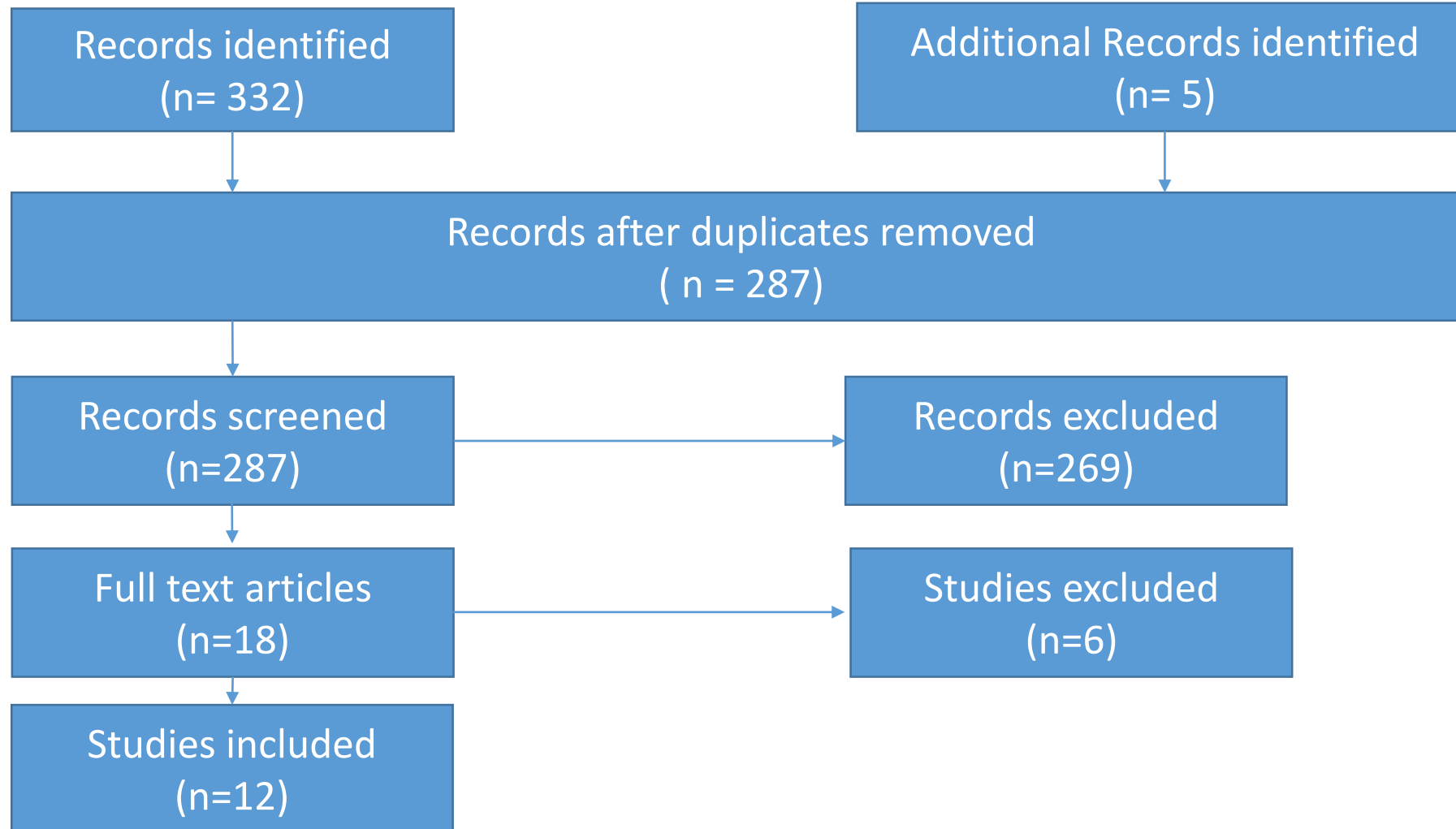
- **Limits:** English language, non-animal research.

- **Inclusion criteria:**

- primary research
- research outcome related to application
- full text available
- the term donning of doffing mentioned in the full texts.

Results

- 12 articles reporting primary evidence, 5 studies investigated patients with VLU, 3 studies investigated donning and doffing devices, 3 studies investigated CVI without ulcers, and 2 studies examining elastic wraps



Themes

- Devices to assist application of compression
 - Material foot slip & Metal frame
- Altered compression stocking design
 - Two piece stocking & inner and outer stocking
- Adjustable compression wraps
- Education
 - Leg exercises, physical activity & leg elevation

Only 2 studies examined impact of adherence to compression therapy

- Material foot slip & time on education

Recommendations from the literature

- When compression therapy is first prescribed patients should be provided with
 - Education
- Donning and doffing aides – Material foot slip
- Alternative compression methods such as modified stocking systems or wraps should be researched further and the evidence suggests that they have potential
- More research into alternatives is needed

Comments, Questions or Abuse!

