

A dual pressure indicator, two-layer compression system for treatment of venous leg ulcers: a review, Tai et al.
Journal of Wound Care, Volume 30, Issue Sup. 12, 2022

DOI: <https://doi.org/10.12968/jowc.2021.30.Sup12.S6>

Level of Evidence: 2

Reviewer: Linda Do, MS-III
Barry University School of Podiatric Medicine

The objective of this study was to see if a two layer bandaging system can be as effective as the 'gold standard' of four layer bandaging for the treatment of venous leg ulcers. Venous leg ulcers are primarily treated using compression therapy, however healing varies due to patient non-compliance, inherent issues with the four layer bandage (complaints of tightness, proximal rolling down of the dressing, etc.) and clinician competency with application. 32 publications from Pubmed and 6 publications from Google Scholar that discussed specific compression systems were utilized. Of the 38 publications, only 10 publications were relevant to using a two layer bandaging system.

After reviewing the 10 publications, the researchers concluded that the utilization of two-layered bandage systems is equivalent to the four layer bandage system. The reciprocity of the results is still questionable since the types of bandages used from the study were not mentioned in the publication. Evidence alludes that the two layer compression bandage (combined with guidelines for application) may provide consistent results as well as making it more comfortable for patients. It will also provide an easier application and make it easier to obtain accurate pressure levels. Therefore, two layered bandage systems, with appropriate usage guidelines, may increase patient compliance and increase the healing of the venous ulcers, however further studies need to be done to discuss the types of bandages utilized / most efficacious bandage combinations.



ACPM
American College of Podiatric Medicine
Education | Research | Advocacy