

THE EFFECTIVENESS OF LEG COMPRESSION THERAPY IN THE TREATMENT OF THE CELLULITIS PATIENTS: A SYSTEMATIC REVIEW

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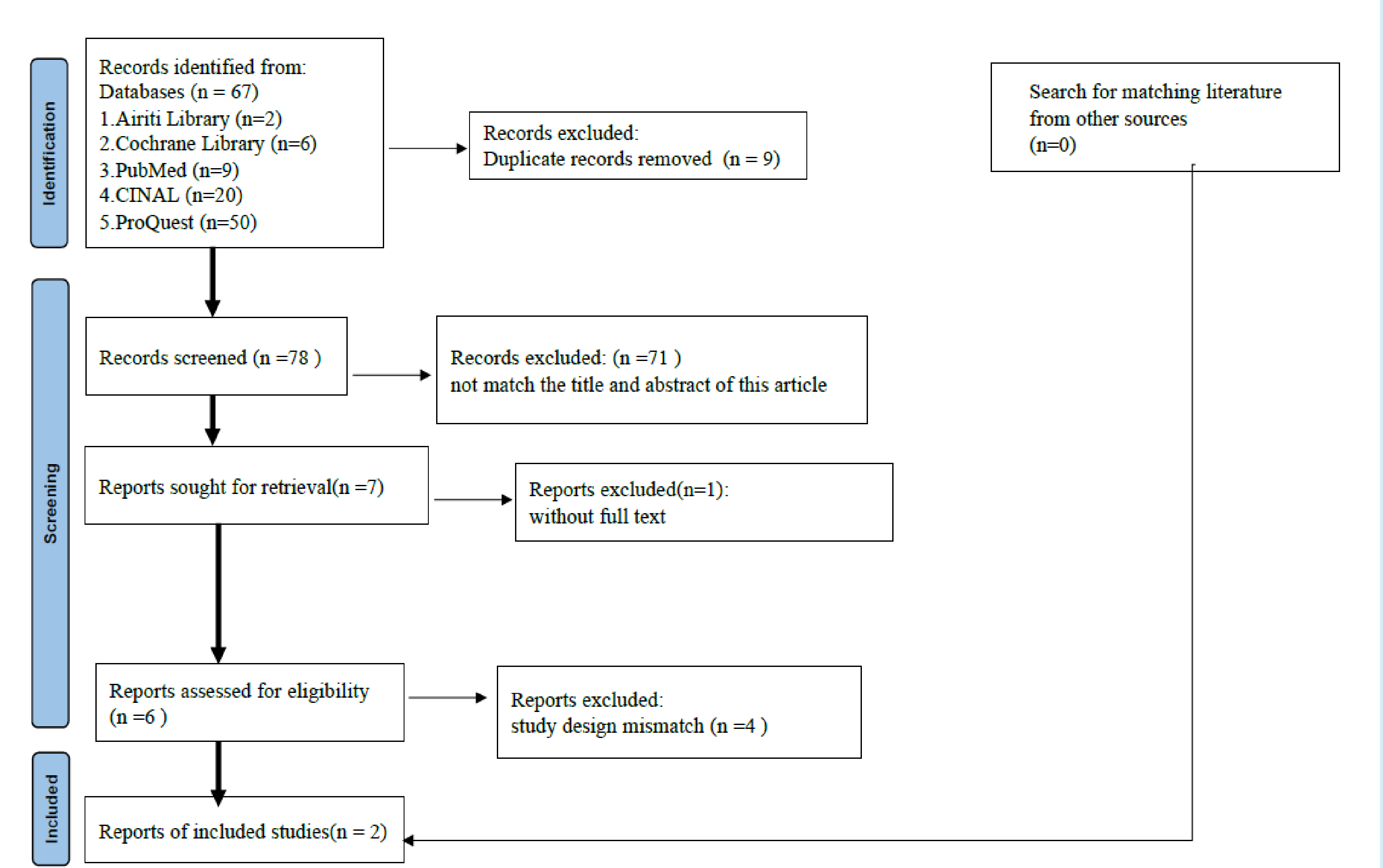
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INTRODUCTION

Cellulitis is infection involving the deep dermis and subcutaneous tissue, is the most common reason for skin-related hospitalization. Cellulitis presenting with expanding erythema, warmth, tenderness, and swelling. If it progresses to osteomyelitis, necrotizing fasciitis can even lead to bacteremia, even easily lead to repeated admissions, which in turn creates a huge medical burden. Studies have pointed out that patients with chronic edema. The objectives of this study is to understand the leg compression therapy in the treatment on the cellulitis patients and provide empirical references for future research and clinical care.

METHOD

- ① **Clinical problems:** The following keywords and Mesh term were used to search for articles on:
 - P:Cellulitis, Cellulite
 - I: Compression Therapy,
 - O:Recurrence(s), Recrudescence(s), Relapse(s)
- ② **Search strategy and database:** Mesh term and text free words were used to search for article.
 - 2 electronic databases included: PubMed, Cochrane Library, ProQuest, EMBASE,& Airiti Library.
- ③ **Inclusion and exclusion:** A total of 163 articles published prior to August 2022 met the search criteria. After screening the abstract, title, and main text of the studies and deleting repetitions, we identified two eligible trials for qualitative synthesis.
- ④ **Research quality:** Research quality was appraised using the CASP-RCT checklist and Oxford CEBM.



RESULTS

This is the analysis to demonstrate that compression therapy is a cost-saving treatment for cellulitis in patients with recurrent and comorbid lower limb chronic edema. One of the studies showed that after 12 months of the study, the average leg volume in the treatment group was a decrease with a mean gain of in the control group. Another results showed that the annual medical service cost of the experimental group (receiving leg compression therapy) Compared with the control group, the average total expenditure was reduced by 81%, showed that the benefit of leg compression therapy.

CASP-RCT checklist and Oxford CEBM results		
	Webb et al. (2020)	webb et al., (2022)
Validity	5/6	5/6
Importance	1/2	1/2
Practicability	3/3	3/3
Total	9/11	9/11
Results	included	included
Oxford CEBM	Level 2	Level 2

CONCLUSIONS

In addition to for patients and health service perspective for patients with chronic edema and recurrent cellulitis compression therapy provides many other health benefits. Advice is to further research with more participants and a longer follow-up duration will allow for a robust analysis of its longer term cost-effectiveness.

REFERENCES

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