HOUSTON Adetholist® LEADING MEDICINE

Background/Introduction

Clinicians managing complex patients frequently face challenges in determining the appropriateness of lower extremity compression therapy. Patients with conditions such as chronic wounds, cellulitis, lymphedema, and mixed etiology may benefit from compression therapy. However, the presence of comorbidities like congestive heart failure, mixed venous and arterial disease, or active cellulitis with or without wounds raises concerns about the potential risks of exacerbating these conditions with compression therapy. There is a vital neo standardize the use of lower extremity compression in acute care, post-acute, and in the home health setting.

Purpose/Objectives/Hypothesis

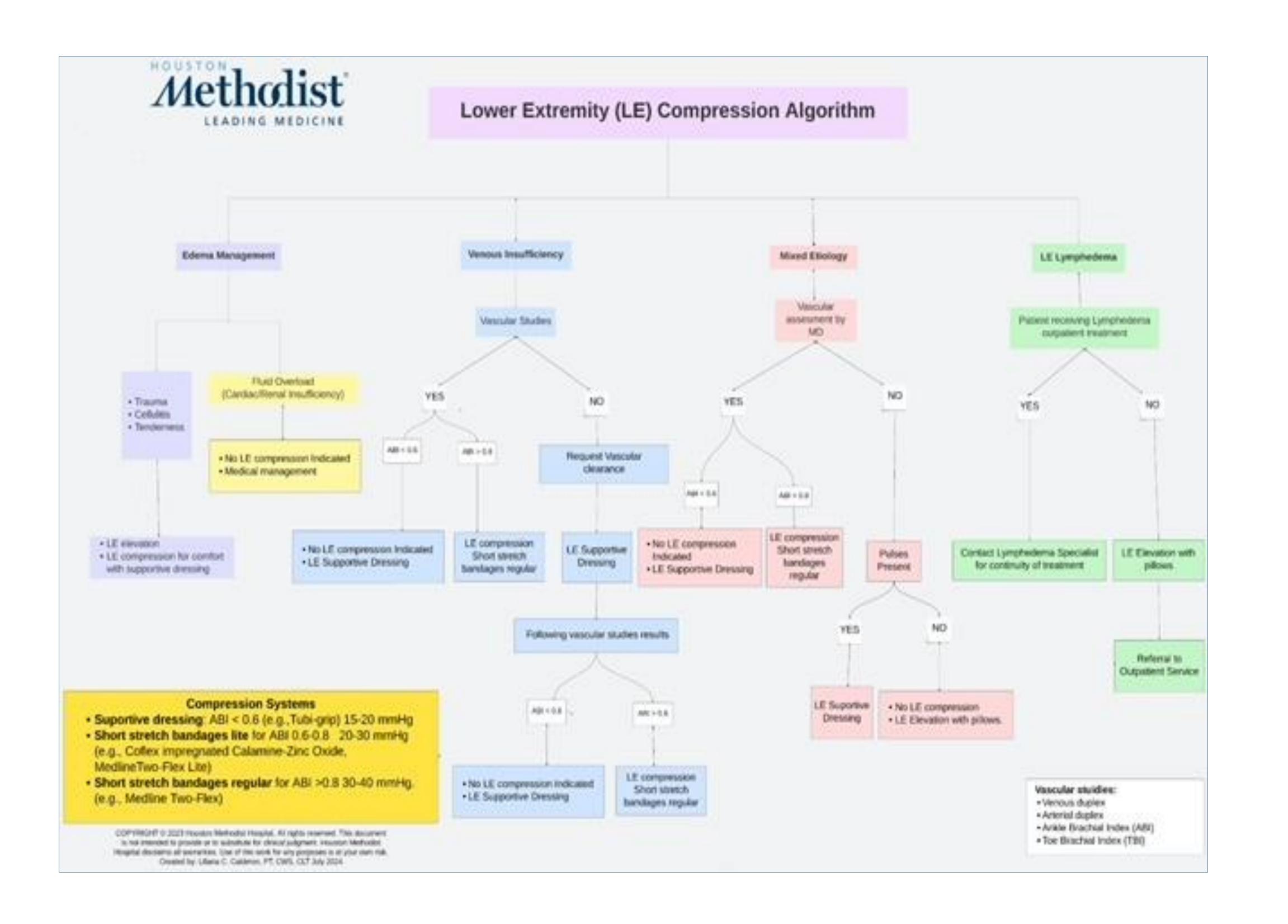
The purpose of this Lower Extremity (LE) Compression Algorithm is to standardize the use of lower extremity compression in acute care, postacute, and in the home health setting.

Methods

The Lower Extremity Compression Algorithm is a clinical decision-making tool designed to assist clinicians in guiding the decision-making process for lower extremity compression. The initial version of the algorithm was developed by acute care Physical Therapists, with expertise in wound care and edema management. A comprehensive literature review identified evidence based best practices for lower extremity compression. The development process involved extensive collaboration across multiple disciplines, including physical therapists, nurses, hospitalists, and vascular surgeons. The final algorithm was reviewed and approved by the Quality and Safety Department at Houston methodist Hospital.

To Compress or Not to Compress: The Development of a Lower Extremity Compression Algorithm

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Extremity Compression Algorithm offers Lower comprehensive guidance for the clinical management of patients across various healthcare settings. It includes color-coded sections, reference ranges for Ankle Brachial Index (ABI), and includes information on commonly used compression systems available in most hospitals throughout the United States.

Compression therapy is a highly effective treatment for patients with lower extremity edema, acute and chronic lower extremity wounds, lymphedema and various combinations of these conditions. The Lower Extremity Compression Algorithm serves as a practical tool for clinicians across different settings. It offers standardized guidance to assist in clinical decision making regarding the appropriateness of compression therapy, including when to apply it and which compression system is most suitable to optimize patient outcomes.

1. Text and Atlas of Wound Diagnosis and Treatment, 2nd Edition, by Rose Hamm, Chapter 4, pages 131-139. 2. Lymphedema Management, The Comprehensive Guide for Practitioners. 4th edition, by Zuther & Norton, Chapter 2, pages47-48, Chapter 3, pages 187-190



Result

Results/Implications

References