



Review

Post-thrombotic syndrome and compression therapy

M. Perrin^{a,*}, B. Eklof^b^a Vascular Surgery, Lyon, France^b Vascular Surgery, Helsingborg, Sweden

ARTICLE INFO

Article history:

Received 23 September 2015

Accepted 30 September 2015

Keywords:

Post-thrombotic syndrome

Compression stockings

Compliance

Deep vein thrombosis

ABSTRACT

Aim: The aim of this review is to try to explain the controversy by critical analysis of published randomized controlled trials on the value of elastic compression stockings in the treatment of acute deep vein thrombosis in prevention of post-thrombotic syndrome.

Methods: A research was made through Medline and Embase databases to identify relevant original articles, with the following keywords: post-thrombotic syndrome, deep venous thrombosis, venous thromboembolism, compression stockings, prevention and compliance.

Results: We identified six randomized controlled trials. Brandjes et al. (1997) [2], Ginsberg et al. (2001) [3], Partsch et al. (2004) [4], Prandoni et al. (2004) [5], Aschwanden et al. (2008) [6], Kahn et al. (2014) [11]. Their conclusions and value are analyzed.

Conclusion: Prescription of elastic compression stockings for the prevention of post-thrombotic syndrome is now in doubt including long-term compression treatment. Two major issues remain: – We need randomized control trials with long-term outcome to determine if compression is effective to prevent post-thrombotic syndrome according to the precise location of the initial deep venous thrombosis. – Compliance is also a major issue. If compression is efficient how can we improve adherence.

© 2015 Elsevier GmbH. All rights reserved.

Contents

1. Introduction	27
2. Methods	27
3. Results	27
4. Discussion	28
References	30

1. Introduction

Until 2014 medical compression was considered a necessity for preventing postthrombotic syndrome (PTS) after deep venous thrombosis (DVT), but the SOX trial, a randomized controlled trial (RCT) published by a recognized epidemiologist group casted a serious doubt on this assertion [1].

The aim of this review is to underline the controversy of this article by comparing its conclusion to those of previously reported RCTs on the topic.

2. Methods

A research was made through Medline and Embase databases to identify relevant original articles but not abstract with the following key words: postthrombotic syndrome, deep venous thrombosis, venous thromboembolism, compression stockings, prevention, compliance.

3. Results

No RCT was identified concerning compression after distal DVT. Conversely we identified 6 RCTs on compression for proximal DVT to prevent PTS. (Tables 1–6) [1–6]. Their analysis is interesting. (i) The only one, which provides precise data on iliofemoral DVT is

* Correspondence to: Unité de Pathologie Vasculaire Jean Kunlin, 26 Chemin de Decines, F-69680 Chassieu, France.

Download English Version:

<https://daneshyari.com/en/article/2848777>

Download Persian Version:

<https://daneshyari.com/article/2848777>

[Daneshyari.com](https://daneshyari.com)