




17 ... graduated compression remains the cornerstone of therapy for patients with venous ulcers

40 ... multilayer bandages deliver graded pressure of 40 mmHg at the ankle, which gradually decreases to 17 mmHg at the knee

MATERIALS, PRESSURE & STIFFNESS

from:
Sackheim K, Arozto T, Kinsner RS.
Compression modalities and dressings: their use in venous ulcers.
Dermatol Ther 2006; 19: 538-577



17 ... graduated compression: the aim is to provide approximately 40 mmHg at the ankle, reducing to 20 mmHg at the calf

40 ... this is automatically obtained on a 'normal' shaped leg because the ankle is narrower than the calf

MATERIALS, PRESSURE & STIFFNESS

from:
Hopkins A.
How to apply effective multilayer compression bandaging.
Wound Essentials 2006; 1: 38-47



17 ...healing a venous ulcer requires: ... applying the compression so that it is appropriately high, about 35 mmHg at the patient's ankle, gradually declining as the compression bandage ascends to reach 10 to 15 mmHg at the infrapatellar notch

40

MATERIALS, PRESSURE & STIFFNESS

from:
Bollon L.
Compression in venous ulcer management.
J Wound Ostom Continence Nurs 2008; 35(1): 40-49



40 ... what if not 'degressive' but 'progressive' compression is used

17

MATERIALS, PRESSURE & STIFFNESS

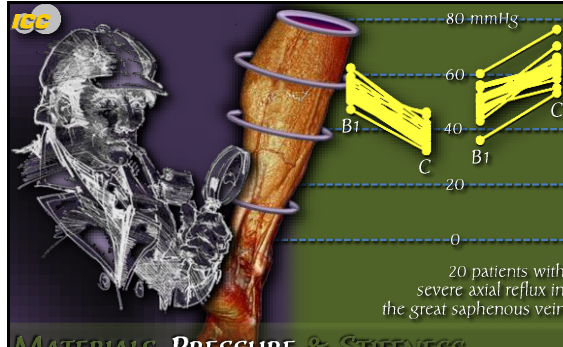


double-blind RCT
401 patients with
= moderate to severe CVI
= pain and/or heavy legs
= 199 progressive stockings
= 202 degressive stockings

... the rate of success was significantly higher in the progressive compressive stocking group compared to the degressive compressive stocking group (3 months)
(70.2 % vs 59.6 %, $p = 0.03$)

MATERIALS, PRESSURE & STIFFNESS

from:
Coutaz S, Alain Leizorovicz A, Laporte S, Mismetti P, Pouget JF, Chapele C, Quere I.
A randomized double-blind trial of upward progressive versus degressive compressive stockings in patients with moderate to severe chronic venous insufficiency.
J Vasc Surg 2012; 56: 1344-1350



80 mmHg
60
40
20
0

B1 C B1 C

20 patients with severe axial reflux in the great saphenous vein

MATERIALS, PRESSURE & STIFFNESS

modified from:
Matti G, Parschi H.
High compression pressure over the calf is more effective than graduated compression in enhancing venous pump function.
Eur J Vasc and Endovasc Surg 2012; 44(3): 332-336

