



CardinalHealth

Essential to care™

A-V Impulse™ Foot Compression System

A step beyond DVT Prophylaxis





Peace of mind for everyone involved



Doctors

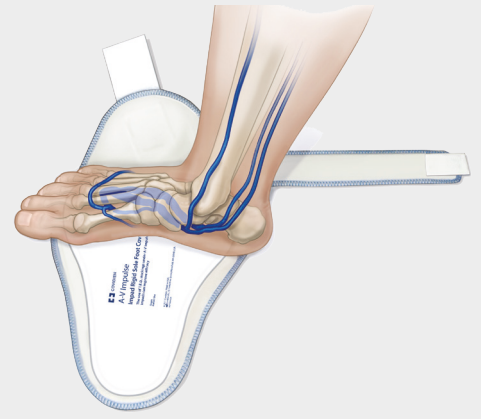
Beyond a clinically proven solution for DVT Prophylaxis, the A-V Impulse™ foot compression system is Indicated to reduce edema and for circulation enhancement; providing the physician with a single solution for improved outcomes with the clinician and patient in mind.^{1,2,3,4,5,6,7,8,9,10}



Patients

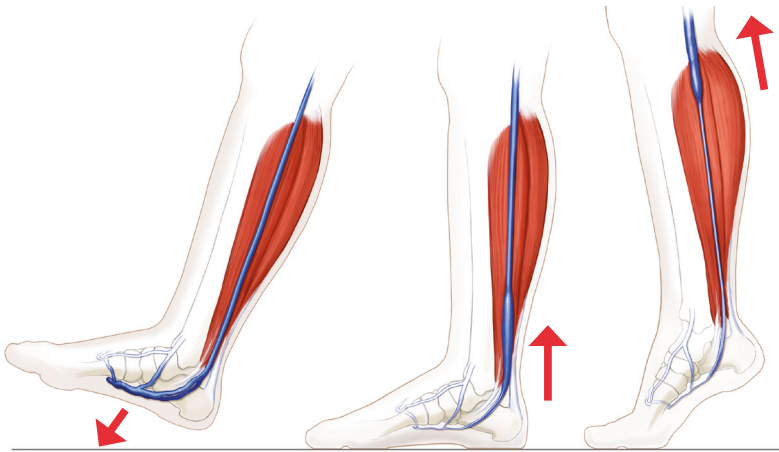
The A-V Impulse™ foot compression system improves outcomes through swelling reduction and improved mobility.^{1,2,8,10,11,12,13,14,15}

Mimics the Natural hemodynamic action of normal ambulation^{5,16}



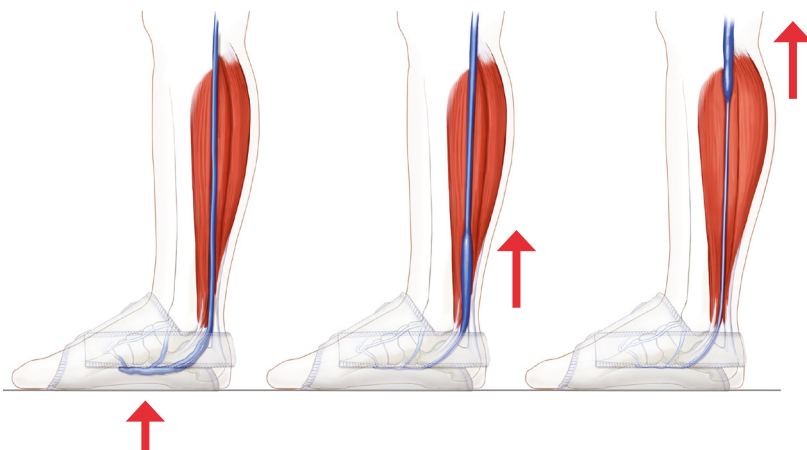
The natural sequence of physical venous flow

With every step, the plantar arch is flattened, causing the venous plexus to empty. This action sends a column of blood up to the heart, allowing plexus to refill.



A-V Impulse™ Foot Compression System mimics physical venous flow

The A-V Impulse™ ImPad™ Rigid Sole Foot Cover features a hard rigid sole designed to contain and direct the impulse directly to the bottom of the foot. This action mimics the hemodynamic effect of ambulation by flattening the plantar plexus and completely evacuating blood from the bottom of the foot.^{5,16}



Default operating specifications

- 130 mmHg pressure
- 0.4 second rapid inflation simulates the weight bearing process
- 3 seconds hold time
- 20 seconds deflation

Unique design features

- Rigid sole
- Vent holes
- Cushioned foot cover
- Anatomically shaped bladder
- Dorsum wrap



A-V Impulse™ Foot Compression System

A step beyond DVT Prophylaxis

Fitting

1



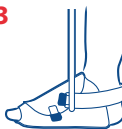
For improved efficacy, apply T.E.D.™ anti-embolism stocking or stockinette over the foot and ankle as required. Avoid wrinkles.

2



Select size of ImPad™ foot cover. Place foot centrally as shown.

3



Wrap inside of the foot cover over top of foot. Overlap outside of foot cover. Secure the strap around the heel.

Comfort

Sweat, heat, itchiness, pressure and skin irritation are the top five discomfort factors patients experience with pneumatic leg compression

Sweat

Vent holes in the bladder circulate air between the patient's foot and ImPad™ following each compression

Heat

ImPad™ covers cover less surface area compared to leg sleeves used in pneumatic compression, reducing the amount of area where heat could be trapped against a patient's skin

Itchiness

ImPad™ contains contain a foam polyester-lined material which is designed to minimize patient discomfort

Pressure

Adjustable Pressure settings are designed to help maximize comfort for patients

Skin irritation

ImPad™ is anatomically shaped and comprised of foam polyester-lined material to cushion the patient's foot during use

Ordering Information

Code	Description	Size (cm)	QTY/Case
A-V Impulse™ System Foot Pump			
AV6000-UK	UK version		1 each
AV6000-EU	EU version		1 each
A-V Impulse™ ImPad™ Rigid Sole Foot Cover Latex Free			
AV740-5	Regular right and left foot	37-41	5 pairs
AV750-5	Large right and left foot	42-47	5 pairs
A-V Impulse™ Tubing Assembly			
AV830-00	3m		1 each

- Erdmann, et al. Os Calcis Fractures: A Randomized Trial Comparing Conservative Treatment of with Impulse Compression of the Foot. British Journal Of Accident Surgery 1992.
- Pitto, et al. Hemodynamics of the Lower Extremity with Pneumatic Foot Compression. The Effect of the Position of the Limb BIOMED TECH 2001.
- Gardner AM, Fox RH. The venous pump of the human foot- a preliminary report. Bristol Med Chir J. 1983;98:109-112.
- Asano H, Matsubara M, Suzuki K, Morita S, Shinomiya K. Prevention of pulmonary embolism by a foot sole pump. J Bone Joint Surg Br. 2001;83(8):1130-1132.
- Eidner G, Pohlmann G, Anders J, Grohmann G. The arteriovenous impulse system in total hip arthroplasty. VASA. Zeitschrift für Gefasskrankheiten. 1999;28(2):112-116.
- Morgan RH, et al. Arterial Flow Enhancement by Impulse Compression. Vasc Endovascular Surg. 1991 January;25:1 8-16.
- Erdmann MW, Richardson J, Templeton J. Os calcis fractures: a randomized trial comparing conservative treatment with impulse compression of the foot. Injury. 1992;23(5):305-307.
- Gardner AM, Fox RH, Lawrence C, Bunker TD, Ling RS, MacEachern AG. Reduction of post-traumatic swelling and compartment pressure by impulse compression of the foot. J Bone Joint Surg Br. 1990;72(5):810-815.
- Hamilton WG, Reeves JD, Frick KB, Goyal N, Engh GA, Parks NL. Mechanical thromboembolic prophylaxis with risk stratification in total knee arthroplasty. J Arthroplasty. 2015;30(1):43-45.
- Windisch C, Kolb W, Kolb K, Grützner P, Venbrocks R, Anders J. Pneumatic compression with foot pumps facilitates early postoperative mobilisation in total knee arthroplasty. Int Orthop. 2011;35(7):995-1000.
- Pitto et al. Mechanical prophylaxis of deep-vein thrombosis after total hip replacement a randomised clinical trial. J Bone Joint Surg Br. 2004 Jul;86(5):639-42.
- Myerson MS, Henderson MR. Clinical applications of a pneumatic intermittent impulse compression device after trauma and major surgery to the foot and ankle. Foot Ankle. 1993 May;14(4):198-203.
- Stöckle U. et al. Fastest reduction of posttraumatic edema: continuous cryotherapy or intermittent impulse compression? Foot Ankle Int. 1997 Jul;18(7):432-8.
- Stranks GJ et al. The A-V Impulse System reduces deep-vein thrombosis and swelling after hemiarthroplasty for hip fracture. J Bone Joint Surg Br. 1992 Sep;74(5):775-8.
- Delis KT et al. Optimum intermittent pneumatic compression stimulus for lower-limb venous emptying. Eur J Vasc Endovasc Surg. 2000 Mar;19(3):261-9.
- Andrews B, Sommerville K, Austin S, Wilson N, Browne NL. Effect of foot compression on the velocity and volume of blood flow in the deep veins. The British journal of surgery. 1993;80(2):198-200.

For healthcare professionals only. Important information: Prior to use, refer to the instructions for use supplied with this device for indications, contraindications, side effects, suggested procedure, warnings and precautions. As part of its continuous product development policy, Cardinal Health reserves the right to change product specifications without prior notification. Please contact your Cardinal Health representative for additional product availability information. © 2019 Cardinal Health. All Rights Reserved. CARDINAL HEALTH, Cardinal Health LOGO, ESSENTIAL TO CARE, A-V IMPULSE and IMPAD are trademarks of Cardinal Health and may be registered in the US and/or in other countries. 2MP19-956155 (08/2019)