



DVT Prophylaxis

Mechanical pumps, sleeves and static stockings



A multi-disciplinary approach to DVT.

DVT: A Preventable Problem

Venous thromboembolism or VTE (Deep Vein Thrombosis (DVT) and **Pulmonary Embolism** (PE) are a major public health problems in the United States. Deep vein thrombosis occurs when a blood clot forms in a large vein, often in the leg. Part of a clot may break off and travel to the lungs, causing a pulmonary embolism and, possibly, death. Estimates suggest that up to 600,000 Americans have DVT/PE each year, and that 60,000 to 100,000 people die as a result.¹

DVT and PE are often under diagnosed and serious, but preventable medical conditions. It is important to know about VTE because it can happen to anybody at any age.

Prevention is preferable to treatment. When patients are identified as being at risk of thromboembolism, doctors look to two potential prophylactic measures: anti-coagulation medications and mechanical methods such as lower limb compression.³

“ Estimates suggest that up to 600,000 Americans have DVT/PE each year, and that 60,000 to 100,000 people die as a result.¹

VTE is associated with a significant burden to society: More deaths than from AIDS, breast cancer, and traffic accidents combined VTE causes an approximate 10% hospital readmission rate by day 90 post surgery and results in substantial resource utilization and excess charges.



Factors that increase the risk of developing DVT¹

Policies and recommendations support DVT prophylaxis

Centers for Medicare & Medicaid Services

Use of compression with a DVT pump can lessen the patient's chances of developing DVT and PE. The combination of DVT and PE following surgery is one of eight hospital-acquired conditions for which The Centers for Medicare & Medicaid Services (CMS) no longer provides payment. Together DVT and PE may be responsible for more than 100,000 deaths each year.^{1,2}

SCIP

The Surgical Care Improvement Project (SCIP) recognized that **Venous Thromboembolism (VTE)**, which includes DVT and PE is one of the most common postoperative complications in the U.S. Prophylactic measures, both pharmacological and mechanical, are cost-effective and have a positive risk/benefit ratio. Two measures, SCIP-VTE-1 and SCIP-VTE-2, call for improvements in the rates of patients receiving appropriate VTE prophylaxis both before and after surgery.

Medline multi-disciplinary approach to compression therapy.

Only Medline offers clinicians all three of the compression products they use to keep their patients well.

Intermittent pneumatic compression

Vaso-Force DVT pump and patient sleeves for foot, calf and leg.

Item# MDS600

Sequential pneumatic compression

The Vaso-Force SQ DVT pump and three-zone patient sleeves that create a wave of compression.

Item# MDS600SQ

Static non-mechanical compression

EMS compression stockings provide precise, graduated compression from foot to thigh.

Item# MDS160864 (thigh)



Item#
MDS630M (thigh)
MDS601M (calf)
MDS620 (foot)

1. Centers for Disease Control: <http://cdc.gov/features/thrombosis/> accessed October 4, 2011
2. Center for Medicare and Medicaid Services website, https://www.cms.gov/HospitalAcqCond/06_Hospital-Acquired_Conditions.asp#TopOfPage, accessed 11/3/11.
3. Anderson FA, Audet A. Best Practices: Preventing Deep Vein Thrombosis and Pulmonary Embolism 1998. Center for Outcomes Research, University of Massachusetts Medical Center. Accessed 11/3/11 at outcomes-umassmed.org/DVT/best_practice/

Vaso-Force

DVT Prophylaxis Pumps

Intermittent and Sequential

In an analysis that combined results from 19 trials involving 2255 patients, Roderick and colleagues reported that intermittent pneumatic compression reduced the incidence of DVT by 66% compared to controls.⁴

DVT Pumps

Item No.	Description	Pkg
MDS600	DVT Pump, intermittent	1/ea
MDS600SQ	DVT Pump, sequential	1/ea
MDSC0304002	Spring loaded hinge	2/ea
MDS600BAT	Battery	1/ea

40 mmHg pressure for leg sleeve,
120 mmHg pressure for foot sleeve



Front



Back

4. Roderick P, Ferris G, Wilson K et al. Towards evidence -based guidelines for the prevention of venous thromboembolism: systematic reviews of mechanical methods, oral anticoagulation , dextran and regional anesthesia as thromboprophylaxis. Health Technol Assess. 2005;9(49). iii-iv, ix-x. 1-78

Medline DVT

Prophylaxis Sleeves

Medline air compression sleeves fit the precise clinical need for patients of all sizes. For extra comfort, the sleeves are lined with tricot: a soft and breathable knit material often found in lingerie. The extra comfort helps promote patient compliance that can be low with some competitive products that are made of plastic and hot to wear.

Selecting a Sleeve

➔ **Choose the body part for the compression:**

- Thigh-high leg
- Calf-high leg
- Foot

➔ **Select the therapy type:**

- Intermittent
(one bladder per sleeve)
- Sequential
(three bladders per sleeve)

➔ **Select the size:**

- Calf-high sleeves come in sizes from small to x-large.
- Foot sleeves come in two sizes and thigh-high in four sizes.

➔ **Select the non-kink air tube set:**

- Five foot (1.5 m)
- Ten foot (3 m)



Vaso-Force Sequential Sleeves

Item No.	Description	Packaging
MDS601PSQ	Sleeve, calf, small	10 pair/cs
MDS601MSQ	Sleeve, calf	10 pair/cs
MDS601LSQ	Sleeve, calf, large	10 pair/cs
MDS601BSQ	Sleeve, calf, x-large	10 pair/cs
MDS620SQ	Sleeve, foot	10 pair/cs
MDS620LSQ	Sleeve, foot, large	10 pair/cs
MDS630SSQ	Sleeve, thigh, small	10 pair/cs
MDS630MSQ	Sleeve, thigh	10 pair/cs
MDS630LSQ	Sleeve, thigh, large	10 pair/cs
MDS630BSQ	Sleeve, thigh, x-large	10 pair/cs
MDS610SSQ	Tube set, 5 ft (1.52 m)	5 pair/cs
MDS610LSQ	Tube set, 10 ft (3.04 m)	5 pair/cs

Vaso-Force Intermittent Sleeves

Item No.	Description	Packaging
MDS601PD	Sleeve, calf, small	10 pair/cs
MDS601M	Sleeve, calf	10 pair/cs
MDS601L	Sleeve, calf, large	10 pair/cs
MDS601B	Sleeve, calf, x-large	10 pair/cs
MDS620	Sleeve, foot	10 pair/cs
MDS620L	Sleeve, foot, large	10 pair/cs
MDS630S	Sleeve, thigh, small	10 pair/cs
MDS630M	Sleeve, thigh	10 pair/cs
MDS630L	Sleeve, thigh, large	10 pair/cs
MDS630B	Sleeve, thigh, x-large	10 pair/cs
MDS610S	Tube set, 5 ft (1.52 m)	5 pair/cs
MDS610L	Tube set, 10 ft (3.04 m)	5 pair/cs

Medline EMS®

Anti-Embolism Stockings

Medline's EMS anti-embolism stockings provide a tailored, contoured fit with just the right amount of gradient pressure. Pressure is greatest at the ankle and gradually reduces throughout the length of the leg.

Stockings are constructed of 80 percent nylon and 20 percent spandex. To meet specific patient needs, they are available in knee- and thigh-length, both with an open toe for circulation monitoring by caregivers. Measuring tapes to assist in determining correct patient sizing are included in each box.

Each package of stockings is color-coded for fast, positive product identification by product color and size. The stocking itself also shows size for accurate patient fitting as well as the product number to make ordering easier.



Curad OTC Compression Hosiery

Available at healthcare retailers everywhere, these socks, knee-highs and thigh-highs are both fashionable and therapeutic.

They are increasingly used by air and auto travelers, pregnant women, people who work on their feet for long periods and by those with tired legs.

Ask your Medline rep for the full Curad hosiery catalog with over 150 different styles, colors, compression levels and sizes to meet every need.

LIT865

Knee-length stockings

Item No.	Size	Calf circum.	Leg length	Packaging
MDS160624	Small regular	10" - 13" (25.5 - 33 cm)	14" - 16" (36 - 40.5 cm)	12 pair/box
MDS160628	Small long	10" - 13" (25.5 - 33 cm)	16" - 18" (40.5 - 46 cm)	12 pair/box
MDS160644	Medium regular	13" - 15" (33 - 38.1 cm)	15" - 17" (38 - 43 cm)	12 pair/box
MDS160648	Medium long	13" - 15" (33 - 38.1 cm)	17" - 19" (43 - 48.5 cm)	12 pair/box
MDS160664	Large regular	15" - 17" (38.1 - 43 cm)	16" - 18" (41 - 45.5 cm)	12 pair/box
MDS160668	Large long	15" - 17" (38.1 - 43 cm)	18" - 20" (45.5 - 51 cm)	12 pair/box
MDS160684	X-large regular	17" - 19" (43 - 48 cm)	16" - 18" (41 - 45.5 cm)	12 pair/box
MDS160688	X-Large long	17" - 19" (43 - 48 cm)	18" - 20" (45.5 - 51 cm)	12 pair/box
MDS160694	XX-large regular	18" - 21" (46 - 53 cm)	16" - 18" (41 - 45.5 cm)	12 pair/box
MDS160698	XX-large long	18" - 21" (46 - 53 cm)	18" - 20" (45.5 - 51 cm)	12 pair/box

Thigh-length stockings

Item No.	Size	Calf circum.	Leg length	Packaging
MDS160820	Small short	10" - 13" (25.5 - 33 cm)	26" - 29" (66 - 74 cm)	6 pair/box
MDS160824	Small regular	10" - 13" (25.5 - 33 cm)	29" - 31" (74 - 79 cm)	6 pair/box
MDS160828	Small long	10" - 13" (25.5 - 33 cm)	31" - 34" (79 - 86 cm)	6 pair/box
MDS160840	Medium short	13" - 15" (33 - 38.1 cm)	26" - 29" (66 - 74 cm)	6 pair/box
MDS160844	Medium regular	13" - 15" (33 - 38.1 cm)	29" - 31" (74 - 79 cm)	6 pair/box
MDS160848	Medium long	13" - 15" (33 - 38.1 cm)	31" - 34" (79 - 86 cm)	6 pair/box
MDS160860	Large short	15" - 17" (38.1 - 43 cm)	26" - 29" (66 - 74 cm)	6 pair/box
MDS160864	Large regular	15" - 17" (38.1 - 43 cm)	29" - 31" (74 - 79 cm)	6 pair/box
MDS160868	Large long	15" - 17" (38.1 - 43 cm)	31" - 34" (79 - 86 cm)	6 pair/box
MDS160884	X-large regular	17" - 19" (43 - 48 cm)	29" - 31" (74 - 79 cm)	6 pair/box
MDS160888	X-large long	17" - 19" (43 - 48 cm)	31" - 34" (79 - 86 cm)	6 pair/box

Competitive Cross-Reference for DVT Prophylaxis Pump, Sleeve and Stockings

Pump, Sleeves & Tubing

Product Description	Kendall® (SCD) Response®	Huntleigh® Flowtron	Medline® Intermittent	Medline® Sequential
Pump	7325	AC500, AC550	MDS600	MDS600SQ
Calf sleeve–medium	5329, 9529	DVT10/E	MDS601M	MDS601MSQ
Calf sleeve–large	5489, 9589, 9789	DVT20/E	MDS601L	MDS601LSQ
Calf sleeve–x-large	N/A	DVT60/E	MDS601B	MDS601BSQ
Thigh sleeve–small	5345, 9545	N/A	MDS630S	MDS630SSQ
Thigh sleeve–medium	5330, 9530/9530T	DVT30/E	MDS630M	MDS630MSQ
Thigh sleeve–large	5480, 9780	DVT40/E	MDS630L	MDS630LSQ
Thigh sleeve–x-large	N/A	N/A	MDS630B	MDS630BSQ
Foot sleeve–medium	5065	FG100 (2)	MDS620	MDS620SQ
Foot sleeve–large	5075	FG200 (2)	MDS620L	MDS620LSQ
Tubing	6328	L550	MDS610S	MDS610SSQ
Tubing–x-large	N/A	L552	MDS610L	MDS610LSQ

Knee-length stockings

Product Description	Jobst®	Kendall® Nylon	Kendall® Cotton	Carolon®	Cardinal Health®	Zimmer®	Albahealth®	Medline® EMS Stockings
Small, regular	111402	7071	6061	511CAP	23640-120	2040-07	453-01	MDS160624
Small, long	111403	7339	6392	512CAP	23640-125	2040-11	458-01	MDS160628
Medium, regular	111406	7115	6133	521CAP	23640-140	2040-08	453-02	MDS160644
Medium, long	111407	7480	6483	522CAP	23640-145	2040-13	458-02	MDS160648
Large, regular	111410	7203	6200	531CAP	23640-160	2040-09	453-03	MDS160664
Large, long	111411	7594	6545	532CAP	23640-165	2040-13	458-03	MDS160668
X-large, regular	111414	7604	6665	541CAP	23640-180	2040-10	453-04	MDS160684
X-large, long	111415	7802	6727	542CAP	23640-185	2040-114	458-04	MDS160688
XX-large, regular	N/A	7470	N/A	551CAP	N/A	N/A	N/A	MDS160694
XX-large, long	N/A	7471	N/A	552CAP	N/A	N/A	N/A	MDS160698

Thigh-length stockings

Product Description	Jobst®	Kendall® Nylon	Kendall® Cotton	Carolon®	Cardinal Health®	Zimmer®	Albahealth®	Medline® EMS Stockings
Small, short	111450	3071	4162	610CAP	23640-315	2040-23	463-01	MDS160820
Small, regular	111451	3130	4286	611CAP	23640-320	2040-27	463-02	MDS160824
Small, long	111452	3222	4305	612CAP	23640-325	2040-31	463-03	MDS160828
Medium, short	111454	3310	4466	620CAP	23640-335	2040-24	468-01	MDS160840
Medium, regular	111455	3416	4515	621CAP	23640-340	2040-28	468-02	MDS160844
Medium, long	111456	3549	4620	622CAP	23640-345	2040-32	468-03	MDS160848
Large, short	111458	3634	4704	630CAP	23640-355	2040-25	473-01	MDS160860
Large, regular	111459	3728	4808	631CAP	23640-360	2040-29	473-02	MDS160864
Large, long	111460	3856	N/A	632CAP	23640-365	2040-33	473-03	MDS160868
X-large, regular	111462	3181	N/A	641CAP	N/A	2040-30	473-04	MDS160884
X-large, long	111463	3182	N/A	642CAP	N/A	2040-34	473-05	MDS160888



Sequential or Intermittent?

With Medline you choose.

Differential data is inconclusive.

We were unable to show a difference in DVT incidence based on the length of the device or the method of compression. Randomized studies are needed to confirm our findings and evaluate hypotheses derived from this study. (J Vasc Surg 2001;34:459-64.)

Rapid inflation, high pressures, and graded sequential intermittent compression systems will have particular augmentation profiles, but there is no evidence that such features improve the prophylactic ability of the system. (Ann Surg 239(2):162-171, 2004. © 2004 Lippincott Williams & Wilkins)

"There is no form of prophylaxis on the market that is 100% effective. There are no studies that I can find that show that (sequential vs. intermittent compression) means there will be any difference in rates of VTE." Dale Bratzler, DO, MPH, Professor of Public Health and Associate Dean in the College of Public Health at the University of Oklahoma Health Sciences Center, and contributing author to the SCIP measures for the Association of Healthcare Quality.

"The precise way in which that stasis is prevented appears to be of much less relevance than ensuring that systems are applied properly." (Evidence-Based Compression: Prevention of Stasis and Deep Vein Thrombosis Rhys J. Morris, PhD; John P. Woodcock, PhD, DSc, CPhys, FlntSP, FIPEM Ann Surg 239(2):162-171, 2004. © 2004 Lippincott Williams & Wilkins)



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