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**Latex**

All Aircast products are latex-free.

**WARRANTY POLICY**

**Satisfaction** - Aircast will provide prompt refund for any product that does not satisfy the physician for any reason whatsoever.

**Durability** - The Aircast VenaFlow system is covered by a three year unlimited warranty.

Compliant to EMC testing EN 60601-1-2, 1992.

UL and C-UL compliant to UL 2601 Standard for Medical and Dental Equipment.

US Patent: 5,588,955 and other patents pending

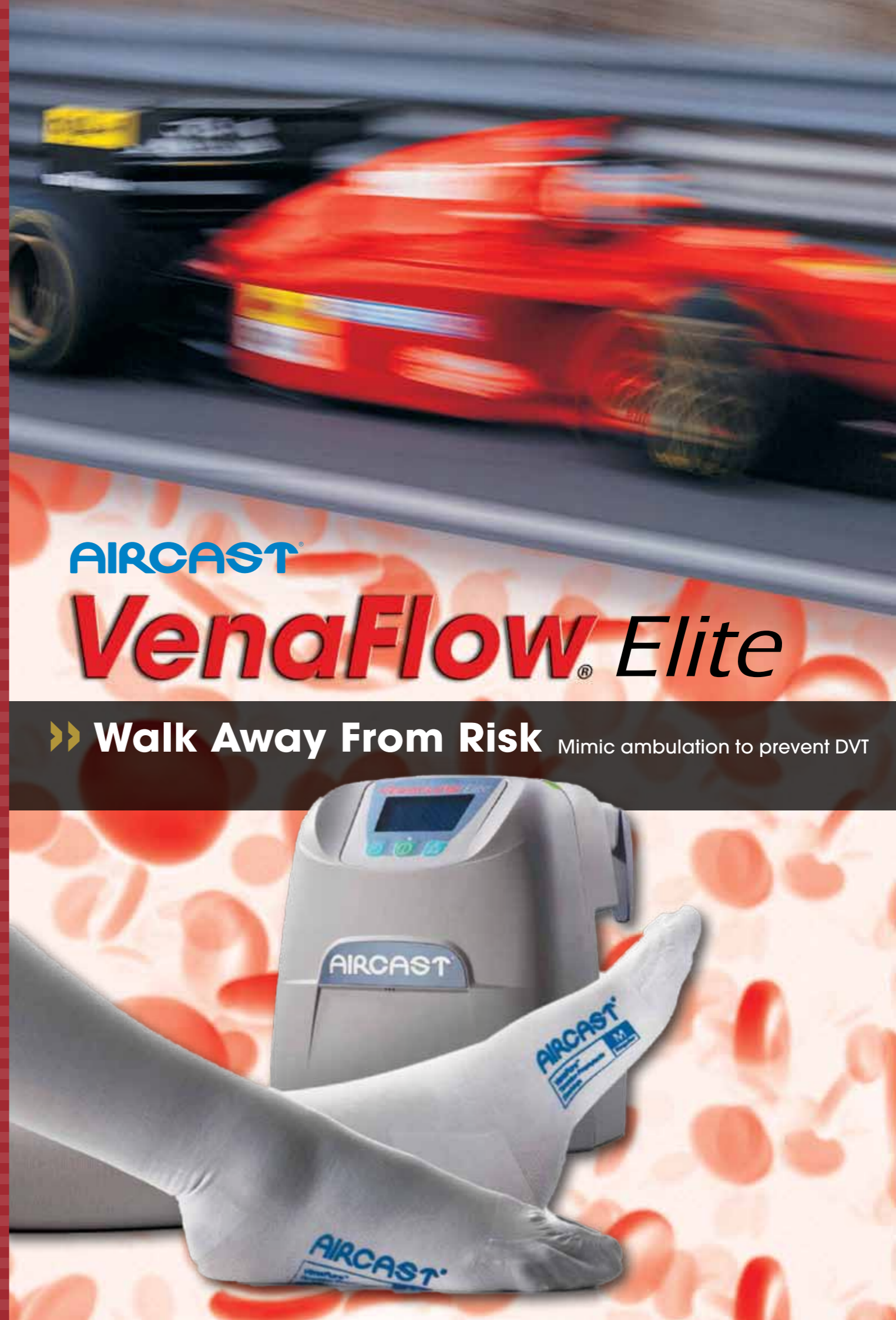
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**AIRCAST**

**VenaFlow<sup>®</sup> Elite**

**Walk Away From Risk** Mimic ambulation to prevent DVT



VenaFlow Elite's unique technology is proven to mimic ambulation and reduce DVT to help healthcare facilities and patients walk away from risk<sup>2,9,15,28,29</sup>

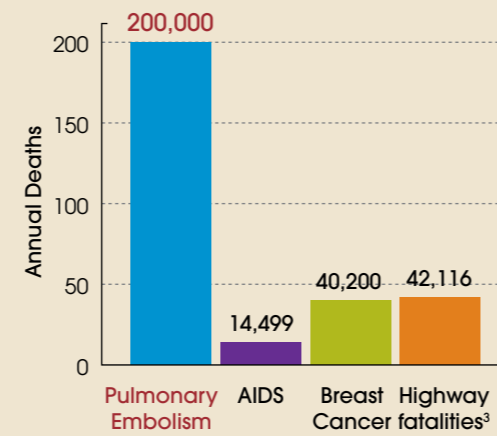


Walk Away From Risk

"Deep-vein thrombosis is preventable. We can reduce the risks of its serious and life-threatening complications if we raise education and awareness among the public and urge all healthcare providers to institute standard preventative measures." –Bruce Evatt, MD, Chief of the Hematologic Diseases branch at the CDC<sup>41</sup>

Venous velocity is normally controlled by the calf muscles, maintaining a healthy flow of blood back to the heart. When this natural venous pump is compromised, during surgery or hospitalization, the threat of deep vein thrombosis (DVT) becomes a risk. DVT prevention demands accelerated venous velocity that matches the natural venous pump.

- 100,000 to 200,000 VTE related deaths occur in the U.S. per year<sup>41</sup>
- 300,000 to 600,000 VTEs occur in the U.S. per year<sup>41, 42</sup>
- 2 million symptomatic DVTs occur in the U.S. per year<sup>42</sup>
- 10 million asymptomatic DVTs occur in the U.S. per year<sup>42</sup>



How does normal inflation prevent DVT?

Blood clots often form behind venous valves. A normal inflation device such as VenaFlow accelerates venous velocity, which in turn creates turbulence to prevent clot formation.

Color scale:

Black – No flow; Blue/green – toward the heart; Red/yellow – away from the heart<sup>40</sup>

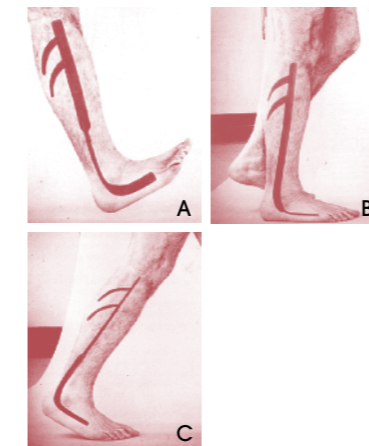
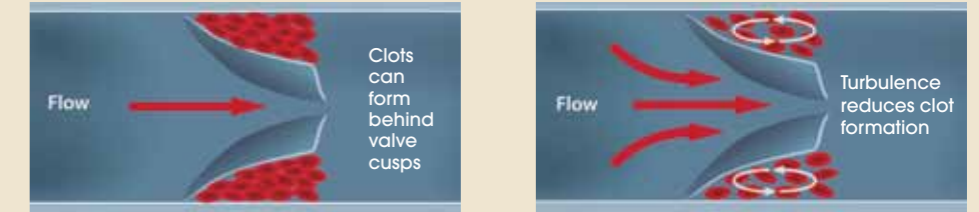
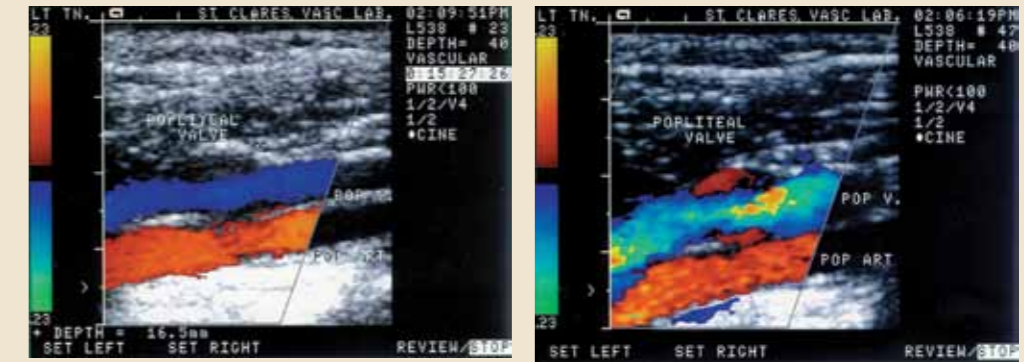


Fig. A, B & C Sequence of venous pump action during ambulation. Note that the physiological sequence is distal calf pump, foot pump then proximal calf pump.<sup>28</sup>

What does blood flow during ambulation look like?

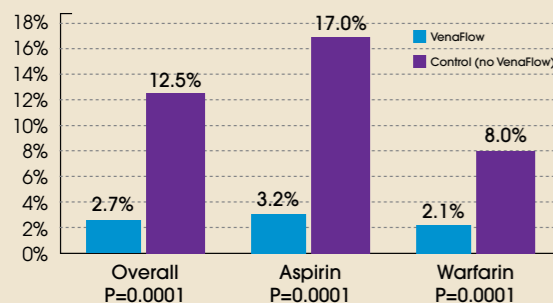
The sequence of blood flow during ambulation begins by emptying the distal calf first, then the foot and finally the proximal calf. This is the mechanism of VenaFlow's graduated, sequential compression which squeezes the distal portion of the calf, then the proximal for a simulation of ambulation.<sup>26</sup>

- Research shows that graduated, sequential compression devices are more effective than a nonsequential device in clearing blood from the soleal, tibial and femoral veins and therefore is more effective at preventing deep venous thrombosis proximal to the calf. (Nicolaides)<sup>34</sup>
- "The use of elliptical, sequential and rapid-filling compression of the leg with overlapping aircells produces significant hemodynamic changes in the common femoral vein, which are superior to other sequential slow or rapid-filling IPC devices." (Labropoulos)<sup>9</sup>

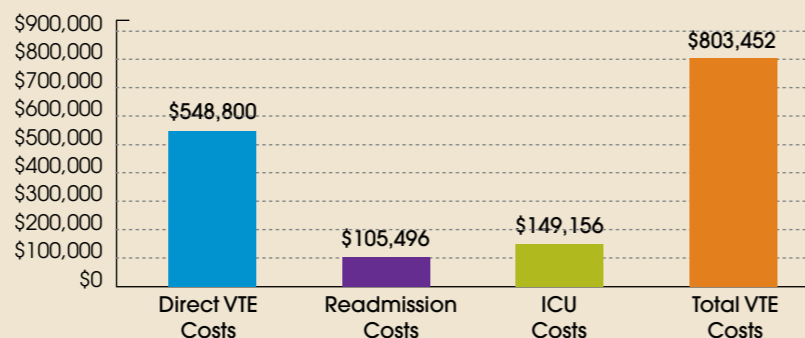
Lower DVT rates means lower costs. Because VenaFlow Elite has been proven to reduce DVT by 50% vs. slow inflation devices, it consequently can save healthcare facilities financially.<sup>3</sup>

- Average per patient cost for DVT: \$7,500 and for PE: \$13,000<sup>42</sup>
- About 1 to 1.8 % of hospitalized patients experience a VTE<sup>41, 42</sup>
- For every 10% reduction in DVT rates, facilities save an estimated \$50,000-75,000 and at least 2 lives!

Incidence of DVT<sup>17</sup>

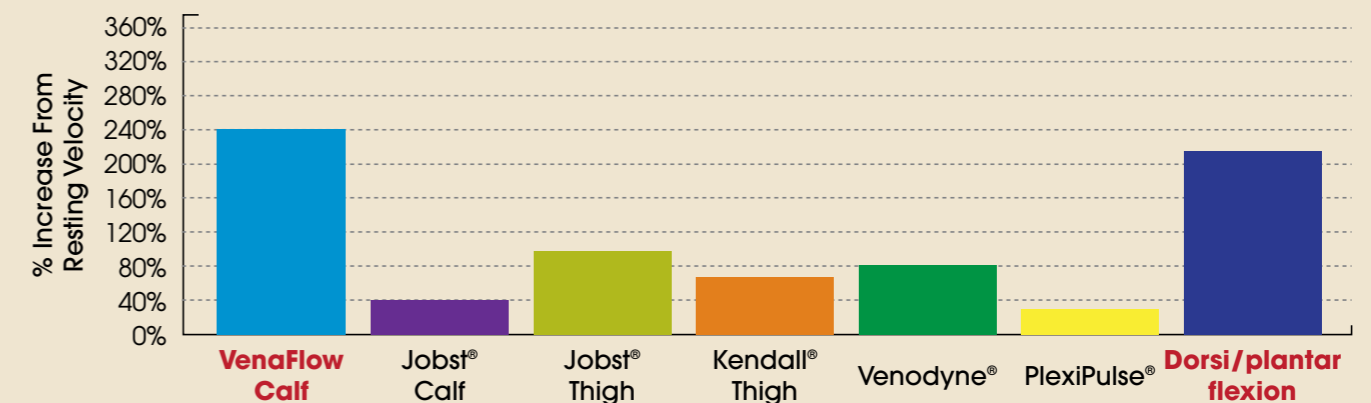


Average Hospital VTE Costs<sup>42, 44</sup>



The Venaflow system delivers rapid, graduated, sequential compression -increasing venous velocity more than twice that of other IPC systems. VenaFlow is the only intermittent pneumatic compression (IPC) device to produce peak venous velocities that match the normal physiologic blood flow attained through plantar/dorsiflexion.<sup>9</sup>

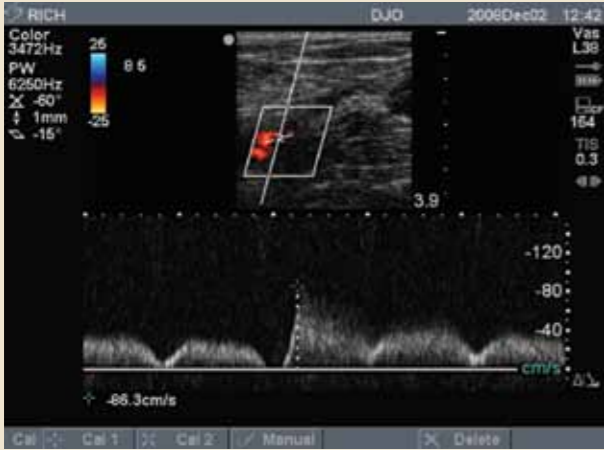
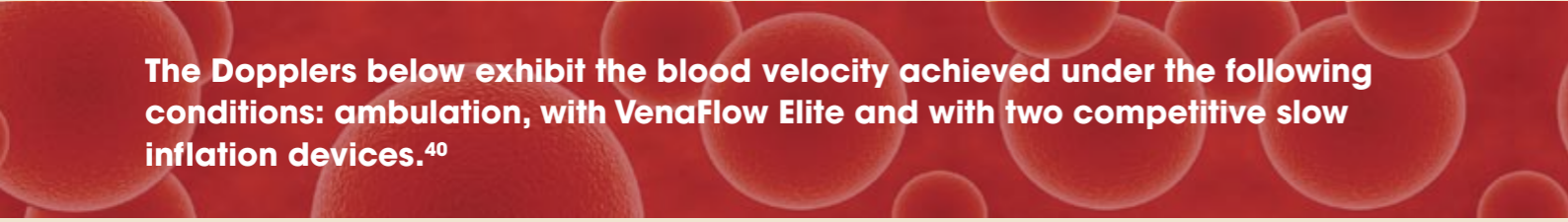
Increased Femoral Vein Velocity<sup>15</sup>



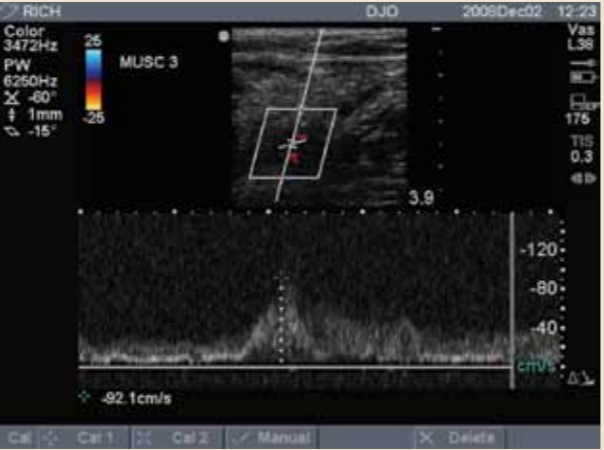
The VenaFlow system unites two proven methods for superior venous acceleration:

**Graduated Sequential Compression and Rapid Impulse Inflation**

This combination helps prevent thrombus formation by increasing venous ejection while producing more shear stress to enhance fibrinolysis.



**Plantar/dorsiflexion**  
111% increase in venous velocity



**VenaFlow Elite**  
112% increase in venous velocity



**Slow inflation device**  
50% increase in venous velocity



**Slow inflation, uniform compression device**  
33% increase in venous velocity

**Why is normal inflation better?**

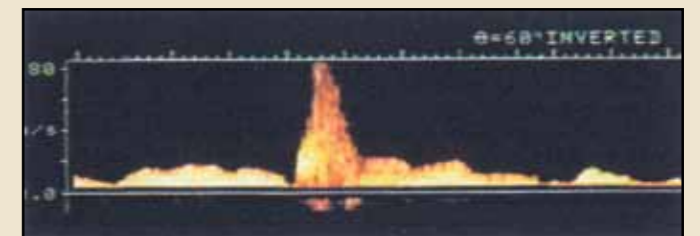
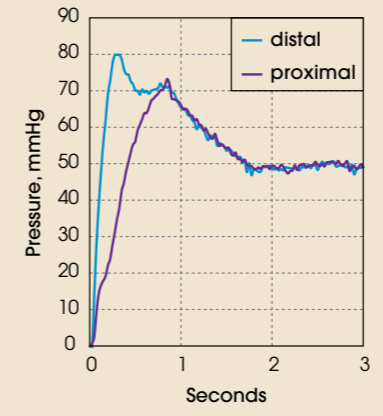
- “ (Slow inflation devices) do not mimic normal physiologic venous pump action. They may be ineffective in preventing the more dangerous proximal deep venous thrombosis.” (Gardner and Fox)<sup>28</sup>
- Intermittent pneumatic compression with a faster inflation rate dramatically increases blood flow, “generates greater shear stress on the vascular wall, stimulates greater nitric oxide release, and consequently results in stronger responses of vasodilation when compared with intermittent pneumatic compression with a slower inflation rate.”<sup>1</sup> (Kang Liu et al)<sup>19</sup>
- Roberts et al established that devices with a greater rate of inflation produced improved flow “augmentation as compared with those with a slower rate of inflation... (VenaFlow) produced the greatest increase in peak venous velocity compared with all the other devices” (Westrich, 1998)<sup>22</sup>

**Rapid VS. Slow Inflation**

Both clinical studies and Doppler test results were consistent with earlier studies that show the increase in venous velocity is a function of the rate of compression<sup>30,35</sup>. Venaflow system inflates rapidly, producing superior venous velocity than other IPC devices that inflates slowly.<sup>5,9</sup>

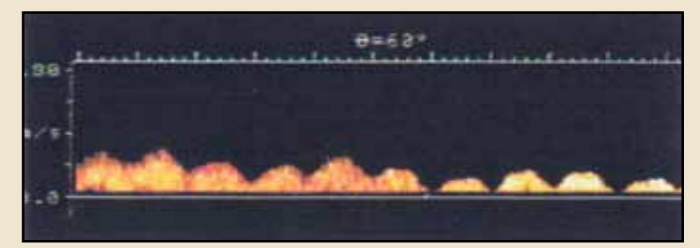
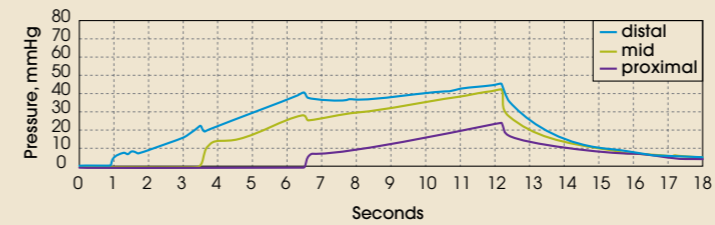
**Aircast Venaflow - Rapid, Impulse Inflation** Cuff pressure rose to >40mmHg in <0.5 second

VenaFlow Elite pressure curve



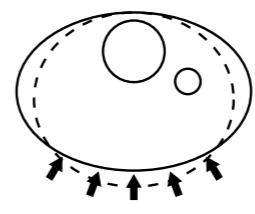
**Covidien SCD - Slow Inflation** Cuff pressure rose to 40 mmHg in 5.2 seconds

Slow inflation SCD device pressure curve



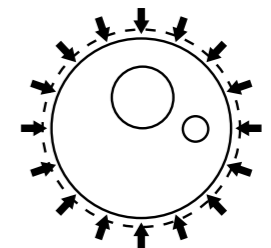
**Asymmetric VS. Circumferential Compression**

Asymmetric compression is significantly more effective than circumferential compression in emptying the veins of the leg<sup>9,30,33</sup>.



**VenaFlow Cuff (asymmetric)**

	Velocity (meters/second)
Pre-Compression:	.19
Peak During Comp.:	.92
<b>Increase:</b>	<b>384%</b>



**Circumferential Cuff**

	Velocity (meters/second)
Pre-Compression:	.19
Peak During Comp.:	.33
<b>Increase:</b>	<b>74%</b>

In a clinical trial of 1803 patients undergoing a variety of orthopaedic procedures treated with either chemoprophylaxis alone (902 patients) or chemoprophylaxis plus VenaFlow (901 patients), **the incidence of DVT was ZERO** in the patients who used VenaFlow >6 hours per day (Eisele, 2007)<sup>2</sup>

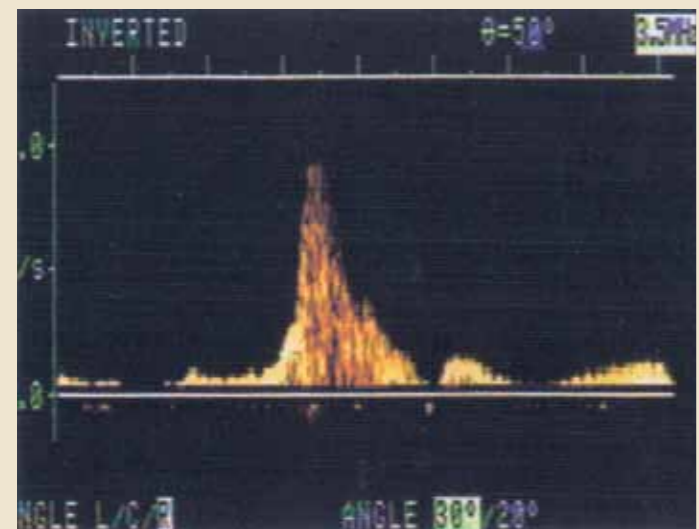


### Graduated Sequential Compression VS. Uniform Compression

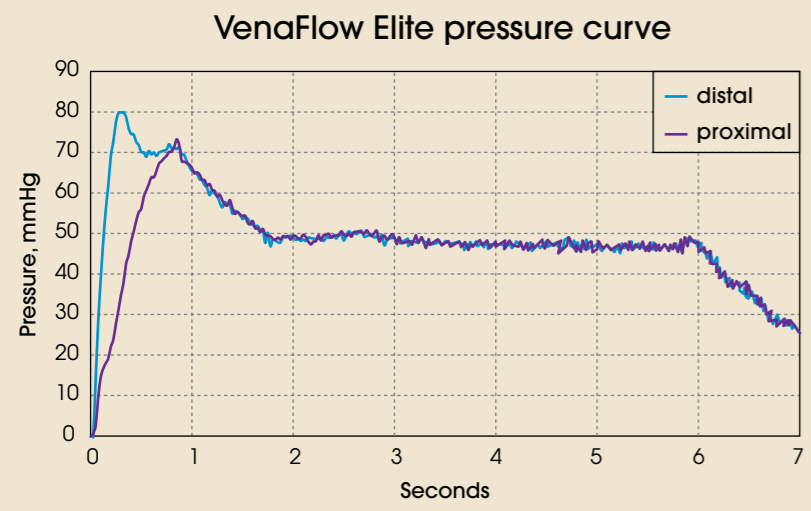
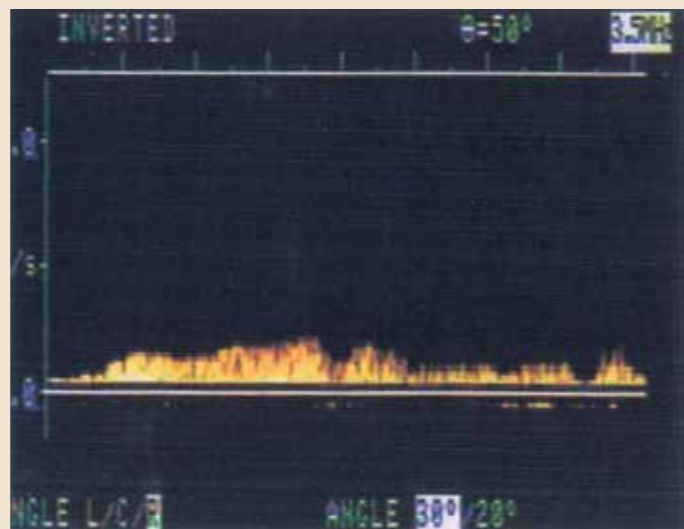
Shear stress generated with the two-zone (Duplex), graduated, sequential Venaflow cuff, is **3 times greater** than with single zone, uniform inflation. Shear stress is believed to be associated with EDRF (endothelial derived relaxing factor), NO (nitric oxide) and fibrinolytics.<sup>29,37</sup>

Venaflow cuffs provide graduate sequential compression (distal aircell inflates first, proximal aircell follows). Both clinical studies<sup>29,32-34</sup> and Ultrasound Dopplers demonstrate this to be more effective in accelerating venous velocity when compared with uniform compression.

**Aircast Venaflow** (calf cuff)  
Graduated Compression



**Huntleigh Flowtron** (calf cuff)  
Uniform Compression



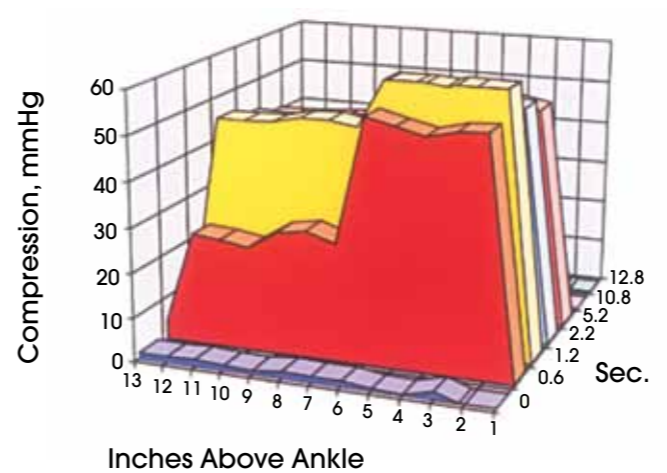
The distal aircell inflates rapidly within less than 0.5 seconds, then the proximal aircell follows. The pressure then settle at about 45mmHg. After 6 seconds, the cuff deflates. In 54 seconds, the inflation cycle begins again.



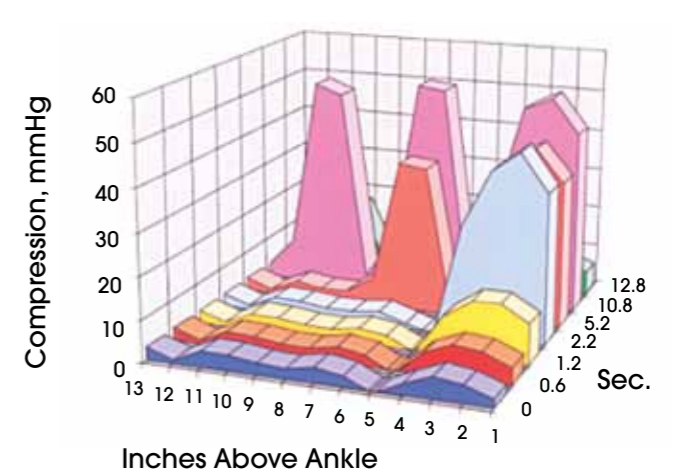
### Seamless Cuff with Duplex™ Aircell VS. Segmented Cuff

The 3D graphs show that Venaflow seamless cuff design with duplex™ Aircell system provides consistent, uninterrupted compression, which produces superior pressure profile when compared to Covidien SCD segmented cuffs (calf and thigh length).

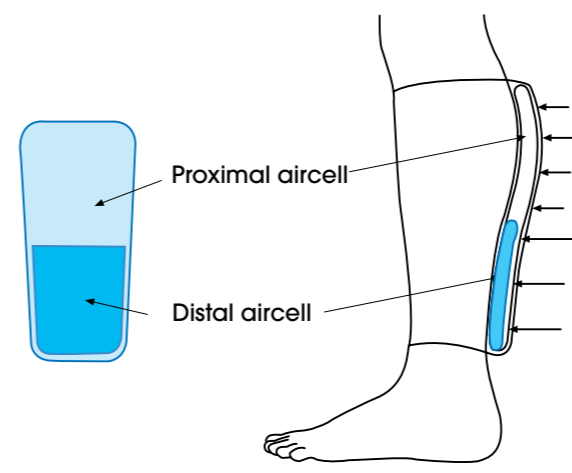
**Aircast Venaflow system**  
(seamless)



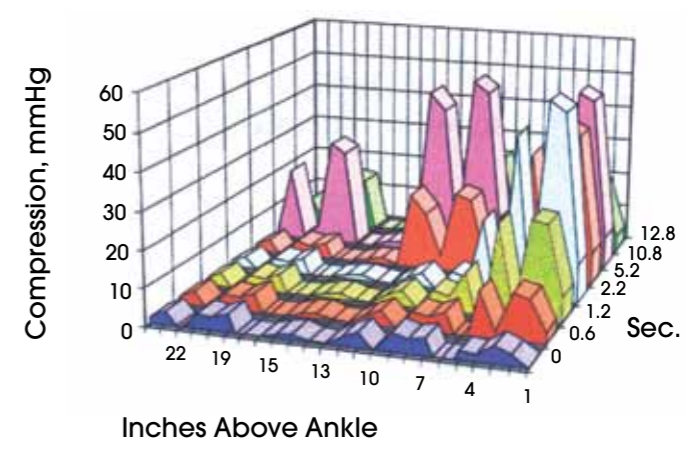
**Covidien SCD Compression system**  
(segmented)



### VenaFlow Seamless Cuff Design



The Venaflow cuff inflates rapidly. Graduation of pressure from higher (distal) to lower (proximal) is uninterrupted because the cuff is seamless.



The Covidien calf length cuff inflates slowly. Compression peaks at the center of each of the three compartments. The Covidien thigh length cuff has six bands of compression. **There is zero compression at the seam between compartments.**



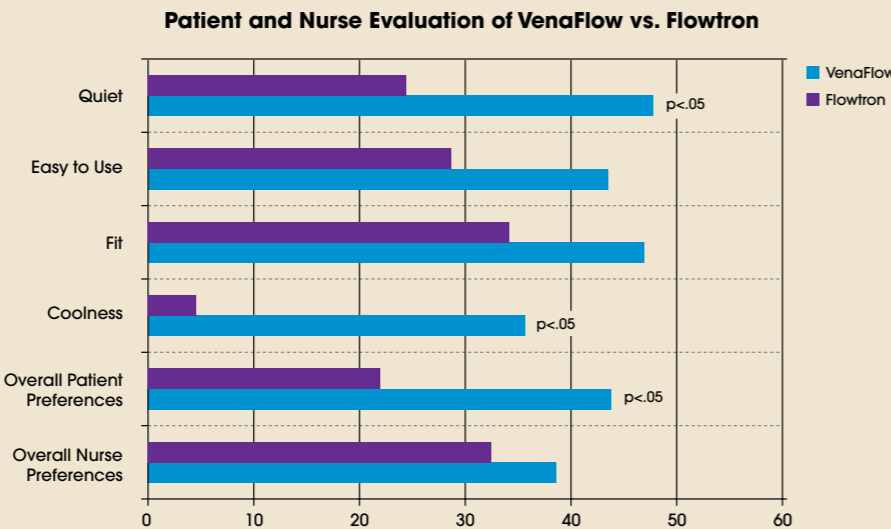
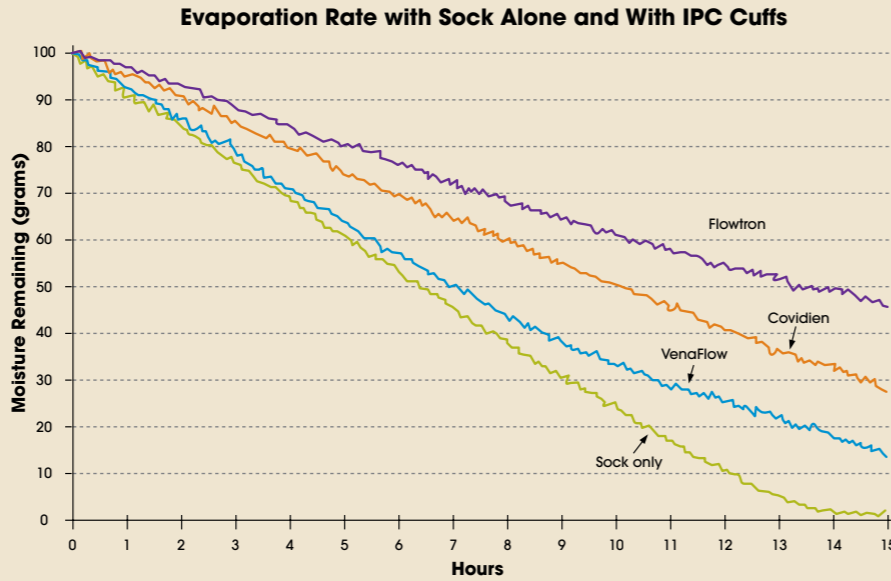
**Patient Compliance**

Research found that there is a direct relationship between compliance and efficacy in reducing DVT. Cuff discomfort may affect compliance.<sup>22,24,38</sup>

The superior cuff design of the Venaflow cuff evaporates **55% faster** than Covidien cuffs and **114% faster** than Flowtron cuffs.<sup>40</sup>

Patient and nurse study at Morristown Memorial Hospital evaluated the ease of use and patient acceptance of the Venaflow when compared to Flowtron. Results below show that patients preferred the Venaflow in every category. Nurses preferred Venaflow in eight out of nine characteristics.<sup>39</sup>

Doppler study comparing the use of thigh length and calf length cuffs showed no difference in increase in venous velocity.<sup>40</sup> Other studies confirmed rapid calf compression is sufficient for augmentation of venous, the addition of thigh compression is not necessary.<sup>22</sup> Moreover study showed a compliance rate of only 33% with the thigh length cuff (Covidien SCD), possibly due to the extensive length leading to heat, perspiration and discomfort.<sup>22,38</sup> Therefore, the shorter, lighter, easier-to-fit calf length cuff is preferred.



**Venaflow Elite cuff features:**

- Hypoallergenic, light, cool, fabric. Latex - free
- Easy-to-fit comfortable cuff increases patient compliance



*The VenaFlow Elite's new state-of-the-art design elegantly displays its unique, user friendly features.*



Features	Benefits
Low profile, light-weight design	Easily stored, easily transported
Compliance counter	Available with compliance counter to monitor and track compliance
Telescoping bed hanger	Extends to accommodate up to 3.5 inches
Battery option	Battery-installed units available upon request
Automatic Cuff Detection	System automatically identifies attached cuff configuration and adjusts pressure accordingly
Preset pressures & alarms	No adjustments necessary
One pump for calf, thigh & foot cuffs	Provides for ease of use and minimizes inventory
Easy to fit, Soft and breathable cuffs	Assists in increasing patient comfort and compliance

Growing evidence supports the use of Venaflow IPC pump for treatment of other complications of surgery related to impaired venous, arterial and interstitial circulation<sup>46,54:</sup>

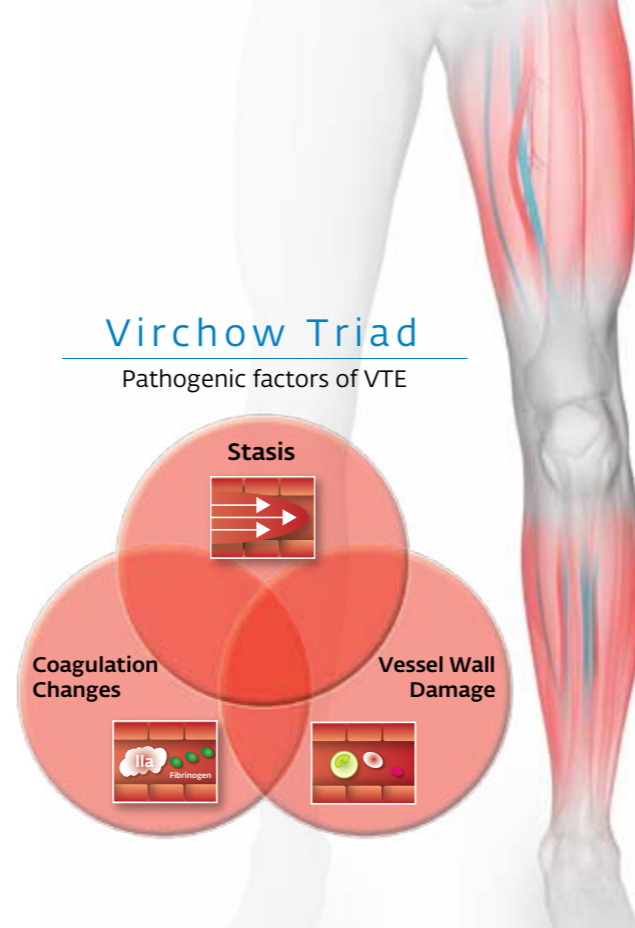
- IPC reduces oedema both pre- and postoperatively in, e.g. calcaneus and lower limb fractures. IPC may lead to improved fracture and soft tissue healing.
- IPC is more effective than ice and elevation and can improve joint mobility and pain relief, and decrease the incidence of skin complications.
- IPC improves wound healing and reduces the risk of amputation in patients with critical ischemia.
- IPC is effective therapy for restless legs syndrome.<sup>1</sup>

## Venous Thromboembolism (VTE)

# The Silent Killer

It can be stopped

- Virchow showed that 2 or more factors increase the risk of VTE. Patients undergo surgery, are immobile in bed and experience changes in blood putting them at moderate to high risk of VTE.<sup>45,47,50</sup>
- Anticoagulants only target one factor of the Virchow's triad and will increase the risk of bleeding. Current guidelines (Asian, AAOS, ACCP, NICE)<sup>45,47,49,51</sup> recommend a combination of mechanical and anticoagulant VTE prophylaxis, which significantly lower DVT rates.<sup>2,3,7,8</sup>



VenaPure Anti-Embolism Stockings					
	Thigh Circumference	Calf Circumference	Leg Length	Code	Size
KNEE	<30.5	<30.5	<41	400R-2	S
			>41	400L-2	
		30.5-38	<43	400R-3	M
			>43	400L-3	
		38-44.5	<46	400R-4	L
			>46	400L-4	
	44.5-51	<46	400R-5	XL	
		>46	400L-5		
	51-58.4	<46	400R-6	XXL	
		>46	400L-6		
	58.5-66	<46	400R-7	XXXL	
		>46	400L-7		

THIGH WITHOUT BELT	<63.5	<30.5	<74	401S-2	S
			74-84	401R-2	
			>84	401L-2	
		30.5-38	<74	401S-3	M
			74-84	401R-3	
			>84	401L-3	
	38-44.5	<74	401S-4	L	
		74-84	401R-4		
		>84	401L-4		
	63.5-81.5	44.5-55	<74	401S-5	XL
			74-84	401R-5	
			>84	401L-5	
	81-91	55-66	<74	401S-6	XXL
			74-84	401R-6	
			>84	401L-6	

VenaFlow Elite Intermittent Pneumatic Compression			
Part Number	Description	Quantity	Max Calf Circumference
30BI	VenaFlow Elite System	1	
30BI-I	VenaFlow Elite System with battery	1	

3040	VenaFlow Elite Calf Cuff	Pair	48.26cm
3041	VenaFlow Elite Sterile Calf Cuff	Single	48.26cm
3042	VenaFlow Elite XL Calf Cuff	Pair	55.88cm
3043	VenaFlow Elite Baritric Calf Cuff	Pair	76.2cm
3044	VenaFlow Elite XL Sterile Calf Cuff	Each	55.88cm
3045	VenaFlow Elite Thigh Cuff	Pair	One Size
3046	VenaFlow Elite Foot Cuff	Pair	One Size

3008	Tube Assembly 1.68m	Each	
3008XL	Tube Assembly 2.6m	Each	
3008XXL	Tube Assembly 3.2m	Each	
3008XXXL	Tube Assembly 3.8m	Each	

Power Cable Plug Ordering			
3048	United Kingdom (BS1363)		
3049	Europe (CEE/77)		
3047	Japan (UL-NEMAS-15)		

Using VenaFlow® pump with VenaPure® anti-embolism stockings - with or without anticoagulants – will target all 3 factors of Virchow's triad. This multi-modal approach is the best VTE prophylaxis with minimal risk, helping patient to 'Walk Away From Risk'.

VenaFlow Elite IPC pump + VenaPure anti-embolism stockings - multi-modal approach, the best VTE prophylaxis with minimal risk.



### VenaFlow Elite

By using mechanical prophylaxis as an adjunct to anticoagulant therapy, the risk of VTE are considerably reduced. In the most recent Cochrane review, the rate of DVT was significantly reduced from 4.21% to 0.65%.<sup>52</sup>

In a study by Daniel, the use of calf IPC significantly decreased the rate of VTE over the hospital's normal thromboprophylaxis regimen (10.2% in control versus 4.6% in IPC)<sup>53</sup>

### VenaPure

- Reduces venous dilation, Prevents endothelial damage
- Increases blood flow velocity (138.4%) - Sigel 1975

### VenaPure Features



Inspection toe hole



Popliteal break



Silicone band



Pressure relieving panel

