CardinalHealth™

SMART COMPRESSION™ BREATHES



Kendall SCD™ 700 Compression System
SMART COMPRESSION™

It's a sleeve that breathes.[1] That addresses the issue of sweat and heat with its moisture and thermal management properties.[1] That allows air circulation on the patient's skin, minimizing sweat pools, irritation and itchiness.[1] That's the comfort sleeve design and it's available with the Kendall SCD™ 700 Compression System.



VENTILATION HOLES

COOL VENTING FABRICS

ADDRESSING ITCHINESS AND SKIN IRRITATION

✓ Smart Breathability ✓ Smart Sleeve Design ✓ Smart Compression Cycles ✓ Smart Training ✓ Smart Compliance

THE PROBLEM WITH CONVENTIONAL MATERIALS

Patient discomfort may lead to compromised patient compliance
Insufficient air circulation through the sleeves may cause sweat pools on the patient's skin, leading to skin irritation and itchiness and, potentially, to the removal of the sleeve by the patient.

PVC bladder design
The inflatable PVC bladders may cause insufficient air circulation through the sleeve, which can prevent sweat from evaporating off the skin. The design of conventional sleeves may accumulate sweat on the patient's skin, leading to skin irritation, itchiness and discomfort. Furthermore, patient compliance can be compromised if the patient experiences discomfort during therapy.

Layers design and materials
The reduced softness and flexibility of conventional sleeves, their edges and mutiple layers design may result in discomfort for awake patients receiving IPC.

THE SMART COMPRESSION™ SYSTEM DIFFERENCE

BREATHABLE DESIGN

- The simultaneous presence of mini holes in the internal and external fabric and larger ventilation holes strategically positioned throughout the inner PVC bladder allows sweat and heat to evaporate, preventing them from being trapped on the patient's legs.[1]

PILLOWCASE DESIGN

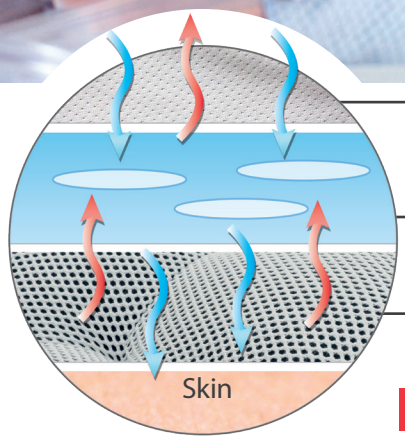
- The pillowcase design describes the way the three layers of the sleeve come together and work as one to deliver an optimal level of flexibility and stretch, allowing the layers to glide freely among each other as a patient shifts their legs.[1]

THE LAYERS OF THE MATERIAL

- The fibers' diameters of the venting inner fabric is similar to silk or Cashmere thus reducing itchiness.[1]
- The PVC middle bladder material is soft and pliant. This allows the sleeve to be comfortable for the patients and more forgiving once inflated.[1]



COMFORT SLEEVE BREATHABLE DESIGN



1 COOL VENTING LIGHTWEIGHT MESH OUTER FABRIC WITH LARGER APERTURES

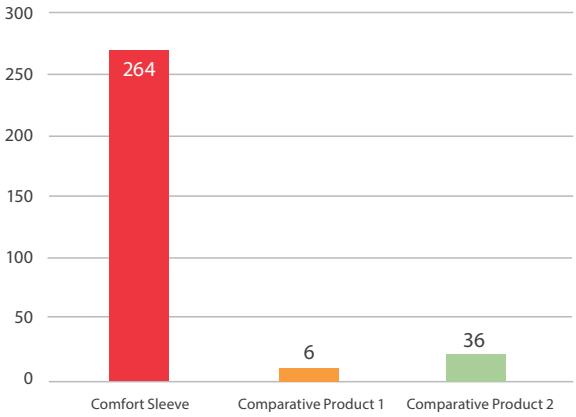
2 LIGHTWEIGHT DEHP FREE PVC BLADDER WITH VENTILATION HOLES

3 SOFT AND BREATHABLE INNER FABRIC WITH MINI HOLES

LABORATORY TESTING

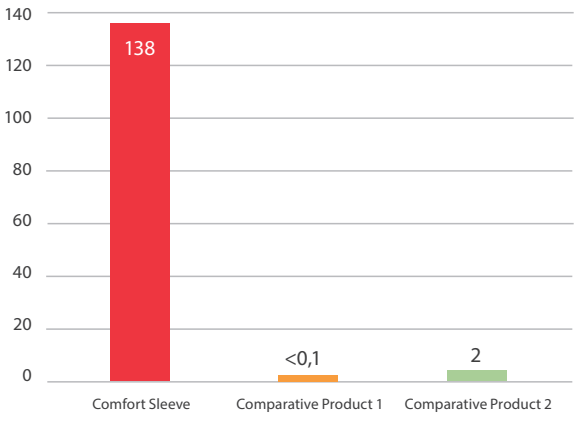


Vapor Transmission Rate (g/m^2/24h)[1]



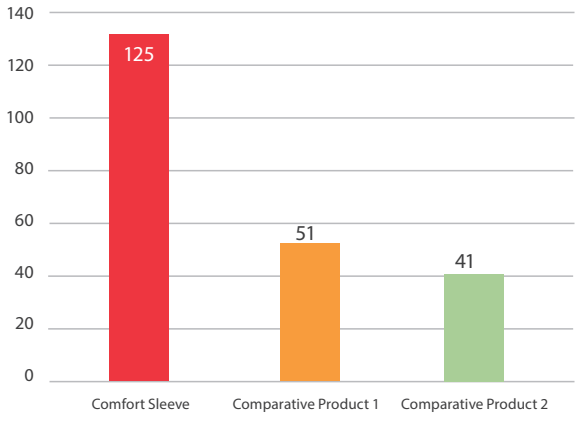
The Vapor transmission test measures the time rate for water vapor to pass through flat material surface. A high transmission rate indicates that liquid such as sweat can evaporate away from the patient leg quickly. The comfort sleeve showed the best vapor transmission rate compared to the alternative products thus resulting a highly breathable fabric.

Air Permeability (cfm/sq ft)[1]



The Air Permeability test can measure how breathable the fabric is, quantifying the level of ease air passes through it. A high permeability rate indicates that air passes easily through the sleeve fabric leaving the patient leg cool and dry. The comfort sleeve material has been shown to be more permeable for air transmission than the alternative products.

Heat and Evaporation Transmission Rate (Watts/m^2)[1]

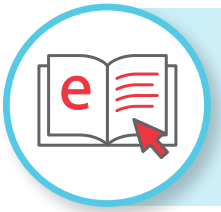


The Heat & Evaporation transmission rate test is designed to evaluate thermal and evaporative resistance.

- Thermal resistance refers to a material's insulation properties and its resistance to dry heat transfer.
- Evaporative resistance is the resistance to the flow of moisture vapor from a saturated surface (high vapor pressures) to an environment of lower pressure. The comfort sleeve shows higher heat and evaporation transmission rate compared to the alternative products tested.

TOGETHER WE CAN MAKE A DIFFERENCE

With the right actions, HA-VTE is often preventable.[2] The more you know about it, the more you can do to prevent it. That's why we developed the SMART COMPRESSION™ Educates Content Hub, a digital library of materials designed to help the healthcare community get smart about preventing HA-VTE.



EVIDENCE

Learn from evidence-based practices and guidelines.



AWARENESS

Sign up with your email to access educational content to keep you up to date on HA-VTE, prevention resources and strategies.



BEST PRACTICES

Discover practical applications and strategies from other nurses. Read articles and watch videos to learn best practices from other nurses.



COMMUNITY

Join the SMART COMPRESSION™ community of nurses to connect and collaborate on ways to prevent HA-VTE.

JOIN US IN THE FIGHT AGAINST HA-VTE

To access all the educational content, please visit cardinalhealth.ca/smartcompression
Please provide your email address to your Cardinal Health Canada sales representative in order to receive educational content directly by email.

1. Internal data available upon request.
2. "Data and Statistics on HA-VTE | CDC." Centers for Disease Control and Prevention, Centers for Disease Control and Prevention, www.cdc.gov/ncbddd/dvt/ha-vte-data.html.

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