

**HealKEE**  
MEDICAL



# AeroKEE™

## Single-use Colonoscopy Pants

- Designed & Developed in Singapore -



**Reduces Exposure to Procedure-Generated Aerosols and Soiling**  
**Supports Patient Dignity, Comfort and Workflow Efficiency**

***YOU Deserve The Best Care***

Patent Pending in Multiple Jurisdictions, Singapore Application No. 10202503408P  
(Images shown are for illustration purposes only, actual product may vary)

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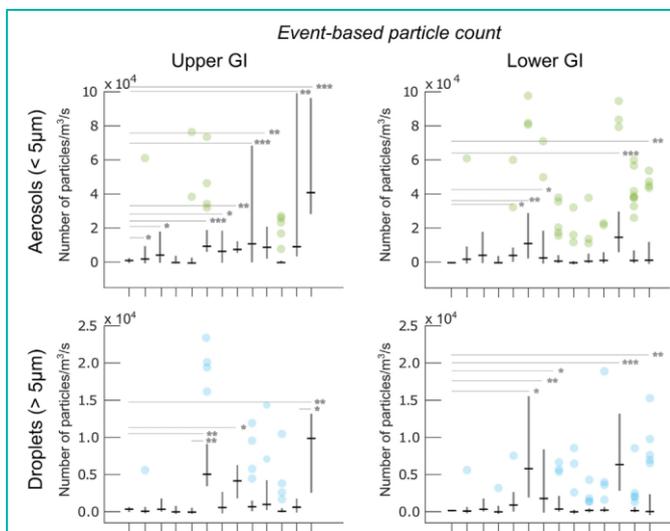
Water infusion and CO<sub>2</sub> insufflation during colonoscopy may generate invisible aerosols and visible soiling, which require extra cleaning efforts and can prolong procedure turnover time

## Recent studies indicate that lower GI procedures can generate higher levels of procedure-related aerosols (apart from visible soiling) than upper GI and bronchoscopy, creating greater demands on workflow and hygiene management

1

““While upper gastrointestinal endoscopy is known to generate aerosols, recent studies indicate that **lower GI procedures can also release measurable levels of fluid droplets**” (1)

2



“LGI (lower GI) procedures produced significant particle counts ( $P < .001$ ) with 2.4 times greater production per procedure than POG(peroral gastroscopy), POG produced 2.00 times more particles than TNE(transnasal endoscopy)” (2)

3

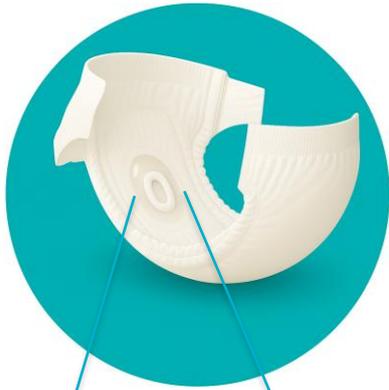


“Clinical studies indicate that aerosol-generating procedures can increase exposure to airborne particles for personnel working in endoscopy units” (4)

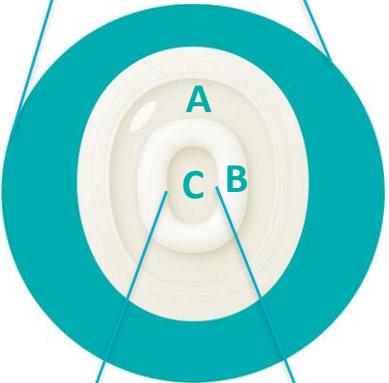
- Colonoscopy requires complete exposure of the patient’s lower body, which may affect perceived dignity and privacy
- Waterproof bed drapes and repeated cleaning of expelled waste increase nursing workload and extend procedure turnaround time

1. Bilal M et al. What constitutes urgent endoscopy? A social media snapshot of gastroenterologists’ views during the COVID-19 pandemic. *Endoscopy International Open* 2020; 08: E693–E698  
2. Frank Phillips et al. Aerosol and droplet generation in upper and lower GI endoscopy: whole procedure and event-based analysis. *Volume 96, No. 4 : 2022 GASTROINTESTINAL ENDOSCOPY* 603  
3. ASGE QUALITY ASSURANCE IN ENDOSCOPY COMMITTEE. Infection control during GI endoscopy. *GASTROINTESTINAL ENDOSCOPY*: 2018

# Small Procedure Support, Big Workflow Benefits



- Sealed waist and leg areas to prevent leakage
- Elastic tightening materials ***fits most body types***
- Extra-large absorbent area and capacity
- Easily wear and remove
- ***Helps reduce the need for additional bed drapes and manual cleaning of expelled fluids***



- A. Anti-fog transparent window enables clear visibility
- B. Smooth insertion port prevents scratching of scopes while maintaining excellent handling comfort
- C. Endoscope insertion channel (Ø 18\*28 mm) ***accommodates all size of endoscopes***



- A dual-layer medical-grade sponge with a vertical central slit
- Allows the endoscope to be easily inserted or withdrawn while effectively while reducing leakage around the insertion site
- Removes surface contaminants from scope reducing reprocessing burden



***Reduce Soiling & Fluid Handling***



***Broad Scope Compatibility & Easy Handling***



***Reduce Cleaning Workload***



***Support Privacy & Comfort***

(Images shown are for illustration purposes only. Actual product may vary)

# Product Information

## Validation

Test Property	Test Methodology	Class	Rating
Impact Penetration	AAMI PB70	Level 3	Pass
Hydrostatic Force	AAMI PB70	Level 3	Pass
Biocompatibility	Cytotoxicity Test	ISO10993-5	-
	Irritation & Sensitization	ISO 10993-10:2021	Skin-contacting materials are listed in FDA and EU CE exemption lists

## Specification

Intended Use	To be worn by colonoscopy patients (single-use) to help manage procedural fluids, support patient privacy and improve workflow hygiene during the procedure.
Material Information	<ul style="list-style-type: none"> <li>Pants Body                             <ul style="list-style-type: none"> <li>Top sheet / Skin-contact layer (non-woven fabric, PP)</li> <li>Absorbent core: SAP (hermetically sealed and non-permeable to skin contact)</li> <li>Back sheet / Outer surface layer: PE</li> <li>Elastic components: Spandex fibers</li> </ul> </li> <li>Scope Insertion Part: Transparent observation window(EVA), Insertion port (PE), Dual-layer sponge (medical-grade): TPU</li> </ul>
Color	White main body of pants, white scope insertion port and polymer sponge, transparent plastic film
Storage	In a clean, dry place when not in use. Avoid storing in direct sunlight or extreme temperatures

## Order Information

Item # & Description	HL-AERO-C-1, AeroKEE™ Single-Use Colonoscopy Pants			
Unit	Quantity	Dimensions(L*W*H)	Weight	Price
Piece	1 piece	25*30*1 cm (9.8 × 11.8 × 0.4 inches)	56g (0.12 lbs)	US\$ 6.9
Box	8 pieces	25*16*15 cm (9.8× 6.3 × 5.9 inches)	588g (1.30 lbs)	US\$ 55
Case	96 pieces,12 boxes	53*45*36cm (20.9 × 17.7 × 14.2 inches)	8,150g (17.97 lbs)	US\$ 660

## About HealKEE MEDICAL

WE are offering **Innovative** Healthcare Environmental & Procedural Safety Solutions

- AirKEE®** Portfolio (with FDA clearance, Class II medical device): one-stop, modular, mobile solutions to overcome the constraints of conventional renovation, to convert general environments to three critical healthcare settings including:



- PE** (Protective Environment for immunocompromised patients, HSCT/ICU etc.,)
- All** (Aerosol Infection Isolation, infectious patients, Aerosol Generating Procedure)
- OT** (Operating Theatre, up to ISO 5 cleaning level)

- AeroKEE™** Series (Class I medical device): single-use procedural barriers designed to support exposure management during aerosol-generating endoscopic procedures.



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