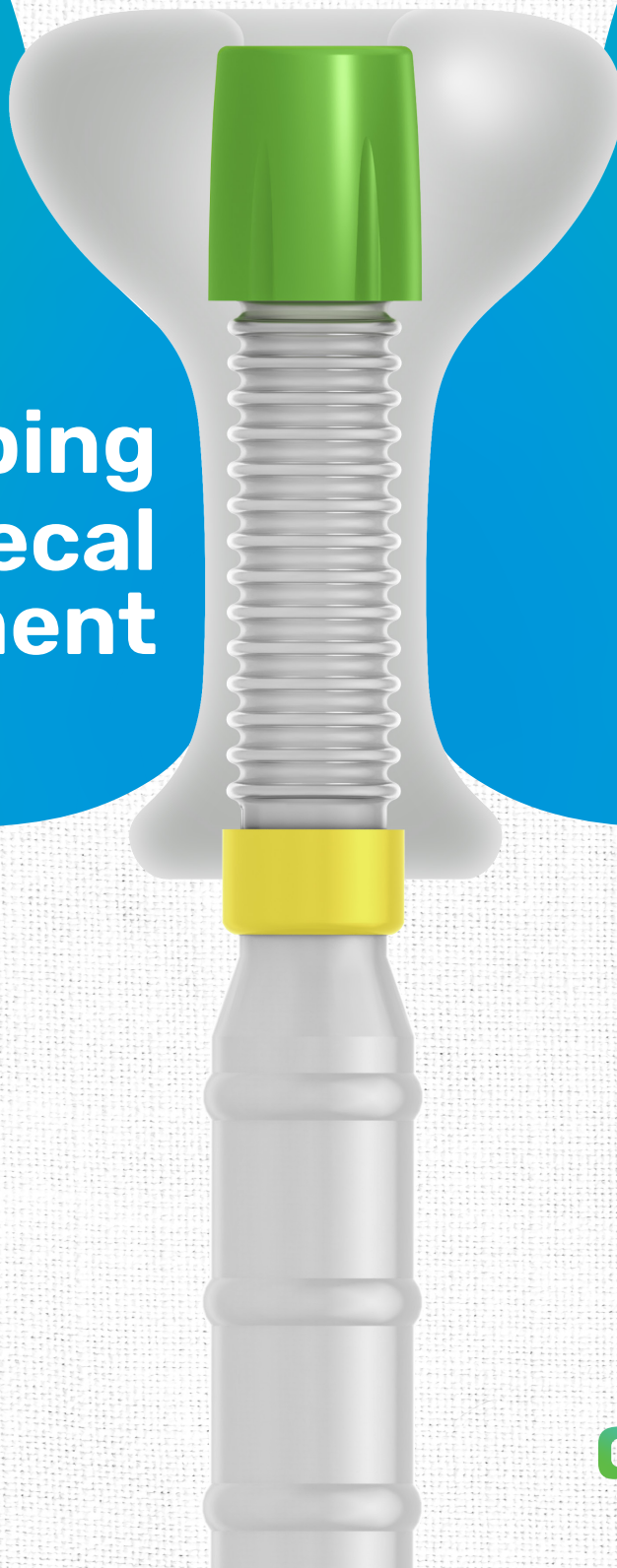


**hygh-tec**<sup>®</sup>

balloon technology for critical care

# Reshaping fecal management



**amb** advanced  
medical balloons

# “Code Brown”

A healthcare worker with dark curly hair, wearing a white face mask and dark scrubs, is shown from the chest up. They are holding a white spray bottle and spraying a fine mist of disinfectant onto a light-colored surface, likely a hospital bed. The background is a blurred hospital room. The entire image has a teal/cyan color overlay. A large, semi-transparent brown circle is centered over the worker's torso, containing white text.

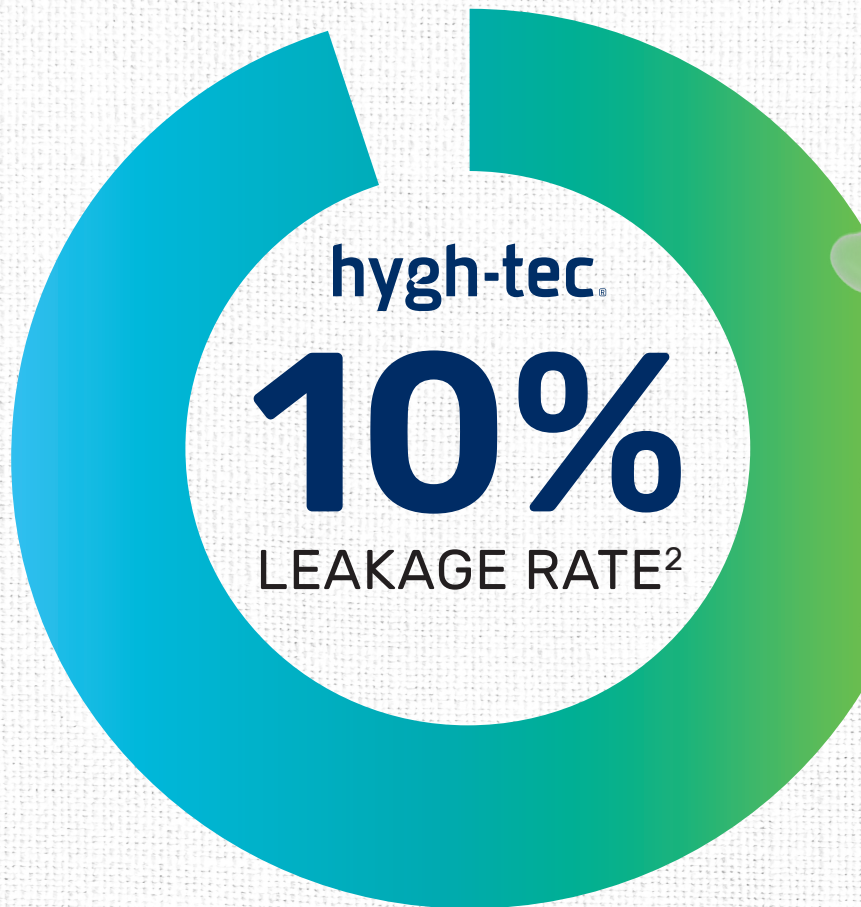
Traditional fecal  
management systems

**70%**

LEAKAGE RATE<sup>1</sup>



# No more.



**The problem with traditional fecal management systems (FMS) is that they leak.**

And when an FMS leaks, it triggers a problematic cascade of increased burden, risk, and cost.



The hygh-tec<sup>®</sup> system fundamentally changes all of that. By minimizing leakage and the need for reactive cleaning, it makes fecal management a safer, more efficient, cost-effective and respectful experience for everyone:

- Relieves staff burden, improves workflow efficiency
- Lowers risk of HAI and HAPI
- Reduces total cost of care for patients with fecal incontinence
- Elevates patient comfort and dignity



# The hygh-tec<sup>®</sup> difference

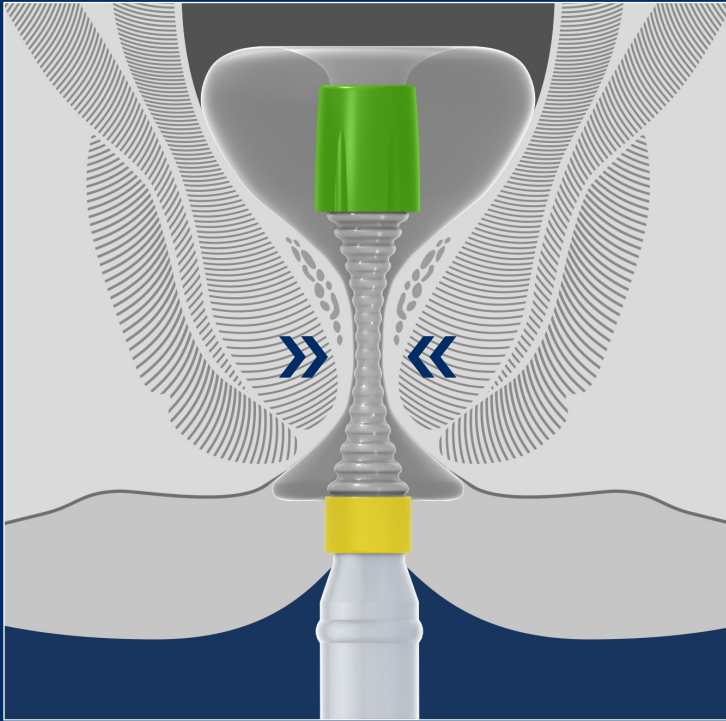
The hygh-tec system uses innovative materials and design to dramatically improve FMS performance over first-generation products.

Fecal Management Systems		
Features	First-generation	hygh-tec
INFLATION	<b>WATER</b>	<b>AIR</b> Minimal pressure reduces damage to anal mucosa.
WEIGHT	<b>43 GRAMS</b> Heavy, relatively uncomfortable.	<b>8 GRAMS</b> 81% lighter than water-filled. More stable, more comfortable.
MATERIAL	<b>SILICONE</b> Can stretch and lose shape.	<b>POLYURETHANE (PUR)</b> Maintains molded shape, while allowing natural movement.
BALLOON DESIGN	<b>OVAL OR CYLINDRICAL</b> Single sealing zone vulnerable to movement.	<b>DUAL DUMBBELL SHAPE</b> Provides optimal sealing with two anchoring points.
INTERNAL SHAFT	<b>FLIMSY</b> Easily twisted, tendency to migrate.	<b>WAVE-LIKE TUBING</b> Moves easily with sphincter muscles, resists twisting and allows unimpeded flow.
SEALING MECHANISM	<b>STATIC</b> Single zone. Does not adapt to the contraction/relaxation of the sphincter and the patient's movements.	<b>DYNAMIC</b> Self-adjusting, 2-zone seal minimizes leaks.



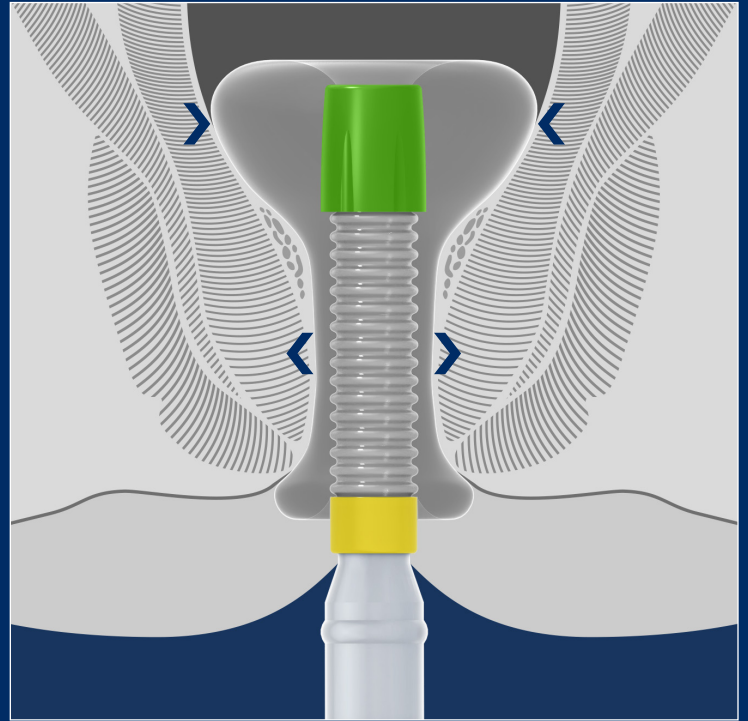
# PUR + Air

## Smart sealing technology



### NORMAL RESTING TONE

The PUR balloon and wave shaped shaft contract radially when the sphincter muscles are in their resting contracted state, conforming to the anal canal and easily adapting to the patient's movement to maintain it's overall seal.



### OPENING REFLEX

When the sphincter relaxes during the opening reflex, the air in the balloon moves downward retaining its fully conforming seal and the balloon's well anchored position in the rectum/anal canal. At the same time, the shaft opens the drainage pathway for an unimpeded flow of stool.



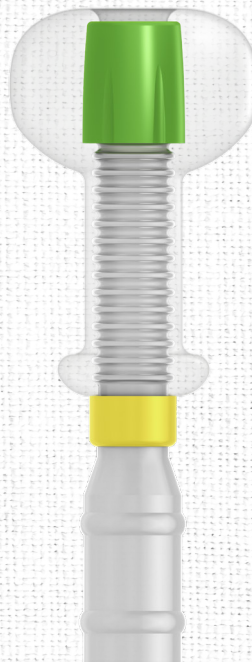
# Better care, lower cost

From minimizing the risk of contamination and complications, to reducing expenses for linens, cleaning supplies and nursing time, hygh-tec® enables a higher standard of care for patients' with fecal incontinence, at a lower cost.

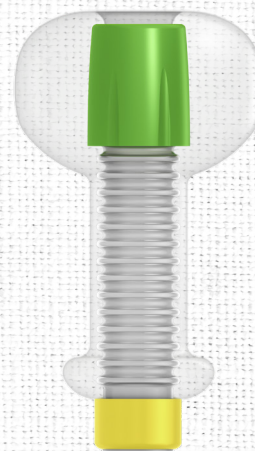
Can save  
**\$245**  
per patient,  
per day\*



Can save over  
**2 hours**  
of nursing time  
per day\*



Can save  
**\$200k**  
per hospital,  
per year\*



hygh-tec's 90% sealing efficiency reduces the number of daily reactive FI cleanings by 1-3 times daily, providing an average savings of \$245/day of fully loaded costs (labor, cleaning materials and supplies).



hygh-tec can reduce average reactive FI cleaning times by ~ 2 hours/day, allowing nurses to use this time to provide other patient care tasks that are critical to their wellbeing and recovery.



If a hospital uses 1,000 FMS units/year and hygh-tec reduces reactive cleanings and other complications that cost an average of \$200 per case, the total cost of fecal incontinence would be reduced by \$200K.





## Control the spread, reduce the stay

By minimizing fecal contact with patient skin and any open wounds, hygh-tec reduces the risk of infections and extended hospital stays.

- Fewer skin breakdowns
- Less risk of cross-contamination
- Improved Medicare-mandated metrics: HAPI, HAI and HAC

## Less reactive cleanup, more time for care

hygh-tec enables your staff to spend less effort on custodial tasks and more on core patient care. It's a better use of staff resources, improving efficiency and quality of care.

- Fewer unplanned cleaning episodes
- Lower expenses for linens and cleaning supplies
- Improved staff morale and efficiency




# Dignity matters

The value of preserving patients’ dignity in their most vulnerable time can’t be quantified. But by enabling that added measure of respect both for staff and patients, the hygh-tec® system can have a real impact on outcomes:

- Elevating patient comfort and experience
- Improving employee workflow and satisfaction
- Enhancing hospital reputation



## hygh-tec product selection

	Product Name	Catalog Number
	hygh-tec FMS Drainage Kit	V01-10024
	hygh-tec 2L Bags (5/box)	V01-10026-05

## About Advanced Medical Balloons

AMB is an innovator in catheter technology, focused exclusively on technology for fecal management and medication administration in the critical care environment.

Designed and manufactured in Germany

The hygh-tec team would be happy to answer any questions you may have.



References

1. Sammon MA, Montague M, Frame F, et al. Randomized controlled study of the effects of 2 fecal management systems on incidence of anal erosion. *J Wound Ostomy Continence Nurs.* 2015;42(3):279-286. doi:10.1097/WON.0000000000000128
2. Gutting T., B. A., Strach L., Stricker E., Boxberger M., Trierweiler-Hauke B., Heine C., Michl P., Luntz S., Robert B., Göbel F., Pfützner A., Watts, K. (2024). Sealing Efficiency and Safety of a Polyurethane-based Fecal Management System in Intensive Care – Results from a Real-World Study [Real-World Observational Study]. University Hospital Heidelberg. Accepted for publication in the *Australian Critical Care Journal*.

\* Based on data from our pilot study, first-day implementation of hygh-tec versus first-generation system, using fully-loaded costs (labor, materials, supplies) saves \$245 per day.