



Premium Endoscope Channel Cleaning Devices

The Assurance of 5 Cleaning Actions

Scientifically proven improvement over existing
brush technology*



www.pullthru.net.nz



They clean what others leave behind

The Pull Thru is a Revolutionary Single Use Endoscope Cleaning Device.

The Pull Thru range of patented endoscope channel cleaning devices (Pull Thru, mini Pull Thru and Push Thru) can be effectively used to clean endoscope channels from 2.8 to 5mm (Pull Thru) and 1.4 to 2.6mm (mini Pull Thru) with single pass.

These cleaning devices are designed to significantly reduce the time required to manually clean endoscope channels and to improve the overall efficacy of the cleaning process.

The Pull Thru range is disposable/single use which removes the need for the complicated, expensive cleaning and sterilization procedures used for traditional brushes.

The unique patented wiper element design provides a complete circumferential seal in the endoscope channel with a piston like action thereby removing almost all residue in a single pass.

Scientifically proven, the Pull Thrus' single pass operation significantly improves the efficiency of the cleaning process when compared to traditional bristle brushes.

Because the wipers are made out of a soft plastic, non abrasive material, they will not harm the endoscope channel walls.

Summary of Scientific Papers*

University Hospitals Birmingham 2012
NHS Foundation Trust

The Birmingham study assessed the performance of a Pull Thru after one (1) pass through a pre contaminated channel against a bristle brush after five (5) passes through the channel using a Ninhydrin test to measure detectable protein and a visual inspection was made to detect soil.

The results indicate that a single pass of the Pull Thru is as effective as 5 passes of the bristle brush tested against.

Deventer Study 2011

The Deventer study compares the amount of protein removal in the channel of a range of colonoscopes after brushing with a reusable bristle brush, a single use bristle brush and a Pull Thru.

The device was passed down the channel of the colonoscope once when the scope was manually cleaned.

The protein loading in the channels was measured prior and subsequent to cleaning.

Conclusions

The Pull Thru removes 18% more atp (organic material) than brushing with a single use brush . The Pull Thru removes 30% more material than reusable brushes.

The Chalton Study, Aust Infect Control 2007; 12(3) : 81-90

The Charlton study measures the weight of pre loaded soil removed after a single pass of Pull Thru versus six passes of the bristle brushes the comparison was made against.

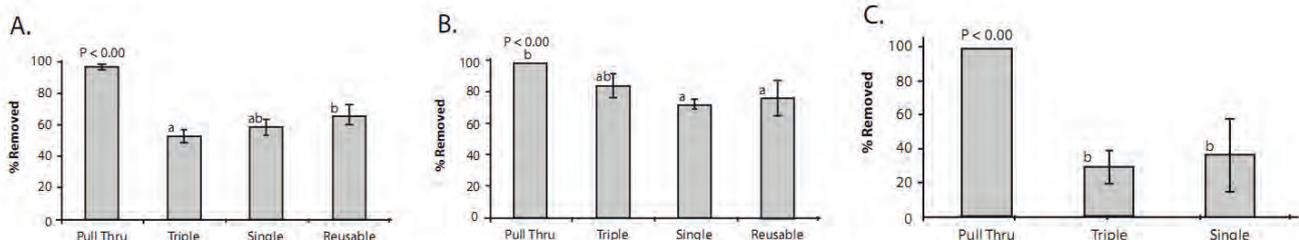


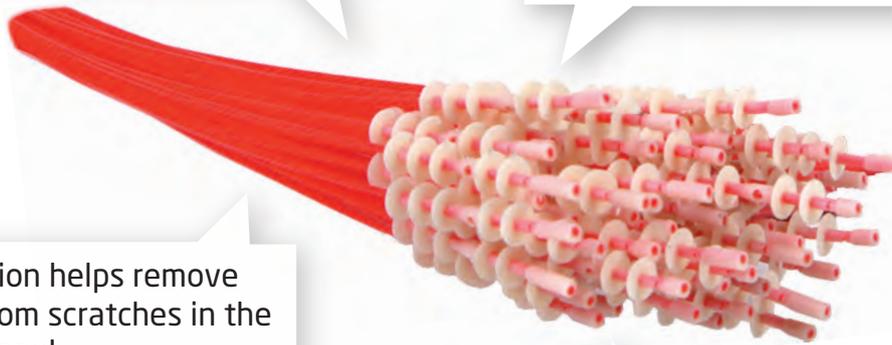
Figure 3. Percent of soil removed (Mean ± SD) from the lumen after passage of the lumen-cleaning device. A. 2.8mm (new) lumen, B. 2.8mm (old) lumen, C. 5.0mm (old) lumen. **All three papers are available on request.**

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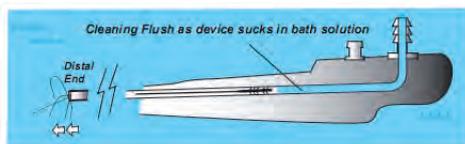
"FEEL THE CLEAN"

Improving the efficacy of the mechanical clean, the 360 degree circumferential seal allows the Pull Thru to remove at least 96% of the debris 100% of the time (Note1)

Enhances the efficacy of the detergent soak that is used in the sink to manually clean the scopes by creating a uniform film for the detergent to attack in a more effective manner



This flushing action helps remove remaining debris from scratches in the channel



The Pull Thru imposes a uniform action for cleaning the channels, reducing cleaning variation and improving infection control

Ensures there is detergent in the channel to attack any remaining film

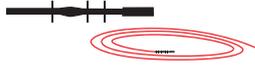
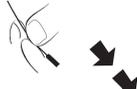
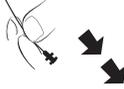
A uniform cleaning action = Reduction in deviations in cleaning protocols (Note 2)

(Note 1) Timothy S Charlton. A comparison of the efficacy of lumen - cleaning devices for flexible gastrointestinal endoscopes. Aust infect Control 2007; 12(3): 81-90

(Note 2) "...minor deviations from cleaning protocols resulted in persistent microbiological contamination after disinfection"
Deva et al. Detection of persistent vegetative bacteria and amplified viral nucleic acid from in-use testing of gastrointestinal endoscopes. J Hosp Inf 1998;39:1 49-157



Specifications

Product	Channel	Working Length	Profile	Insertion end
 Item No. Product Name Product Description	1.4 - 2.6 mm id	2200 mm		
1.4-2.6mm mini Pull Thru 180 Refill pack 1.4-2.6mm mini Pull Thru 60 pack cw Cassette 1.4-2.6mm Single Patient Use pack	180 mini Pull Thrus' in plastic tubes to refill cassette 60 mini Pull Thrus' in a plastic tube with dispensing cassette Perforated bag with a mini Pull Thru and Stubby Brush (note 1)		    	
 Item No. Product Name Product Description	2.8 - 5.0 mm id	2200 mm		
2.8-5.0mm Pull Thru 180 Refill pack 2.8-5.0mm Pull Thru 60 pack cw Cassette 2.8-5.0mm Single Patient Use pack	180 Pull Thrus' in plastic tubes to refill cassette 60 Pull Thrus' in a plastic tube with dispensing cassette Perforated bag with a Pull Thru and Stubby Brush (note 1)		    	
 Item No. Product Name Product Description	1.2 - 8.0 mm	60 mm		
Stubby Brush 180 pack (6x30)	180 Stubby Brushes		   	
 Item No. Product Name Product Description	1.5 - 5.0 mm id	200 mm		
Push Thru Brush 1.5-5.0mm 60 pack	60 Push Thrus' in a plastic bag		    	Notes 1. Contents may differ in some markets

Manufactured by : F R Galantai Manufacturing Limited, Auckland, New Zealand

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