Cleveland Clinic Innovations

PRODUCT
Colonoscope overtube which enables decompression of the colon distal of the “working end”.

INDICATIONS
Colonoscopy

VALUE PROPOSITION
- Removes unnecessary pressurization in the colon.
- Reduces the likelihood of “looping” and improves scope maneuverability by eliminating the “extra space” in the colon.
- Reduces pain due to less pressurization.
- Decreases procedure time due to improved maneuverability and decreased sedation requirements.
- Decreases post-procedure recovery time due to decreased sedation requirement.

INTELLECTUAL PROPERTY
Patent pending.

DEVELOPMENTAL STAGE
Functional prototype tested in human cadaver and ex vivo porcine models.

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Decompression Overtube

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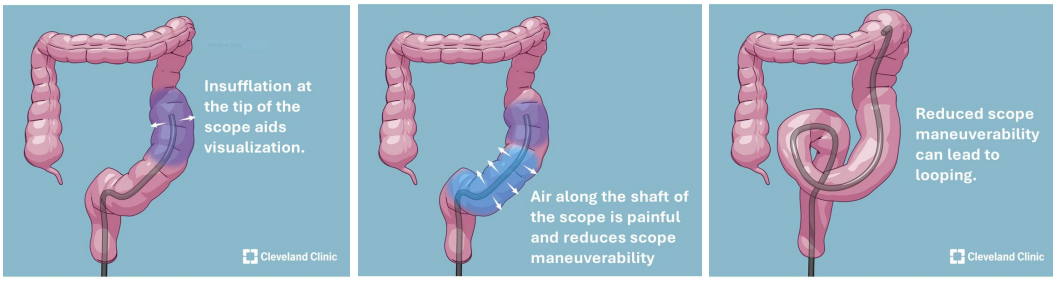
PROBLEM
During a colonoscopy, insufflation, while necessary only at the tip of the scope for visibility, is indiscriminately distributed over the entire length of the colon. Sustained distention over the length of the colon contributes to redundant scope movement during scope advancement and leads to looping. This increases procedure times and, if severe enough, may preclude accomplishment of the procedure. Additionally, insufflation as well as pressure from colonoscope looping causes pain and bloating in the patient. The pain related to pressurization is managed by increasing the depth of anesthesia, which prolongs patient recovery and discharge time.



SOLUTION
Cleveland Clinic inventors have developed a colonoscope overtube which enables decompression of the colon along the proximal colonoscope. Selective areas of the colon can be de-sufflated where insufflation is no longer necessary.