

New Technology - ColonoSight®

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Advantages



ColonoSight[®] is a new FDA cleared Colonoscope which utilizes:

1. Unique DISPOSABLE technology;
2. Imbedded LED lighting; and
3. IntraPull[™] Power Assisted Technology.

Advantages

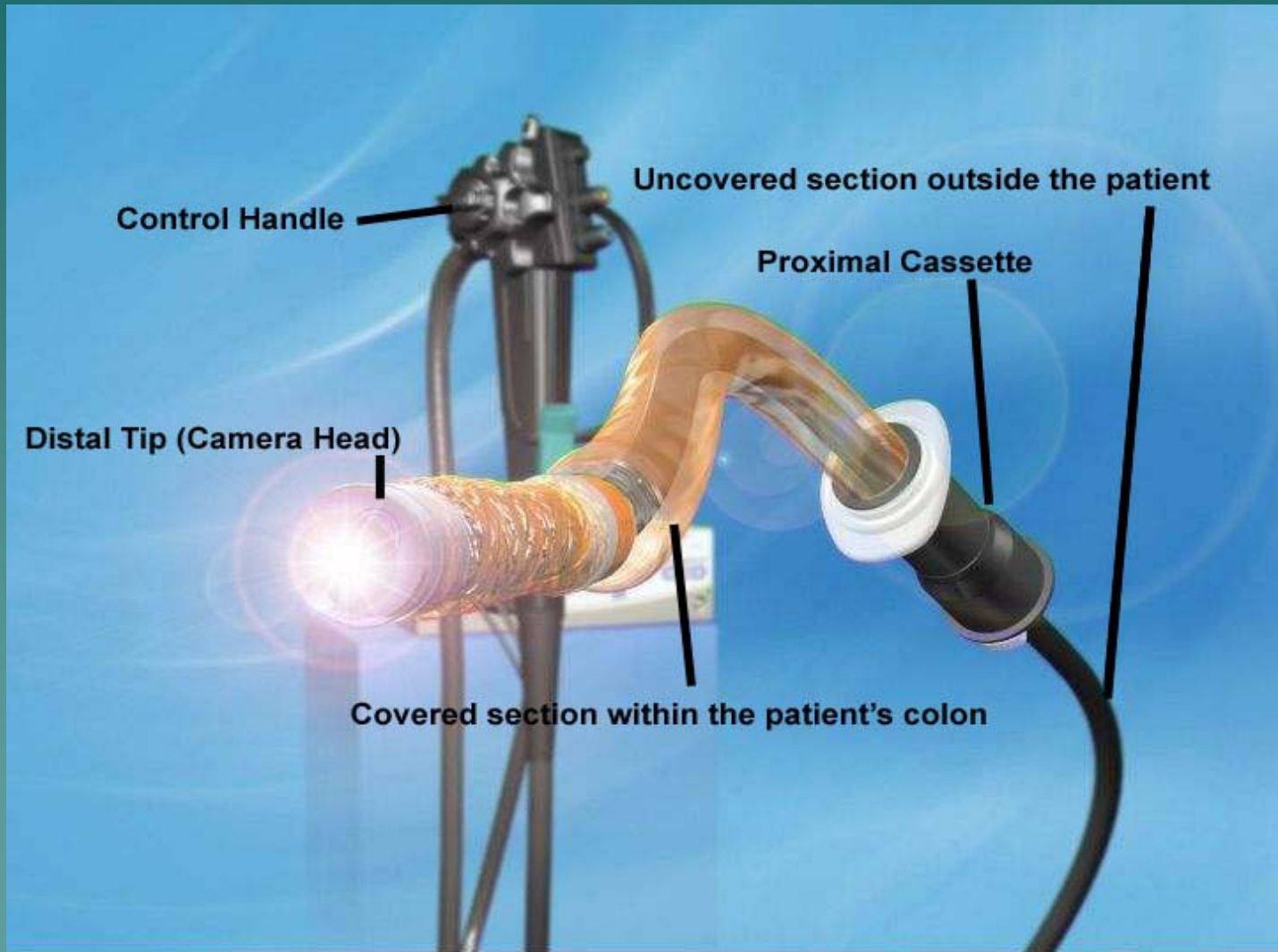
- **Disposability** - reduces the need for high level disinfection and the danger of disease transmission while allowing faster patient turnover
- **Visualization** - Light source based on embedded LED technology reduces maintenance cost
- **Advancement** - IntraPull™ technology assists scope advancement within the colon



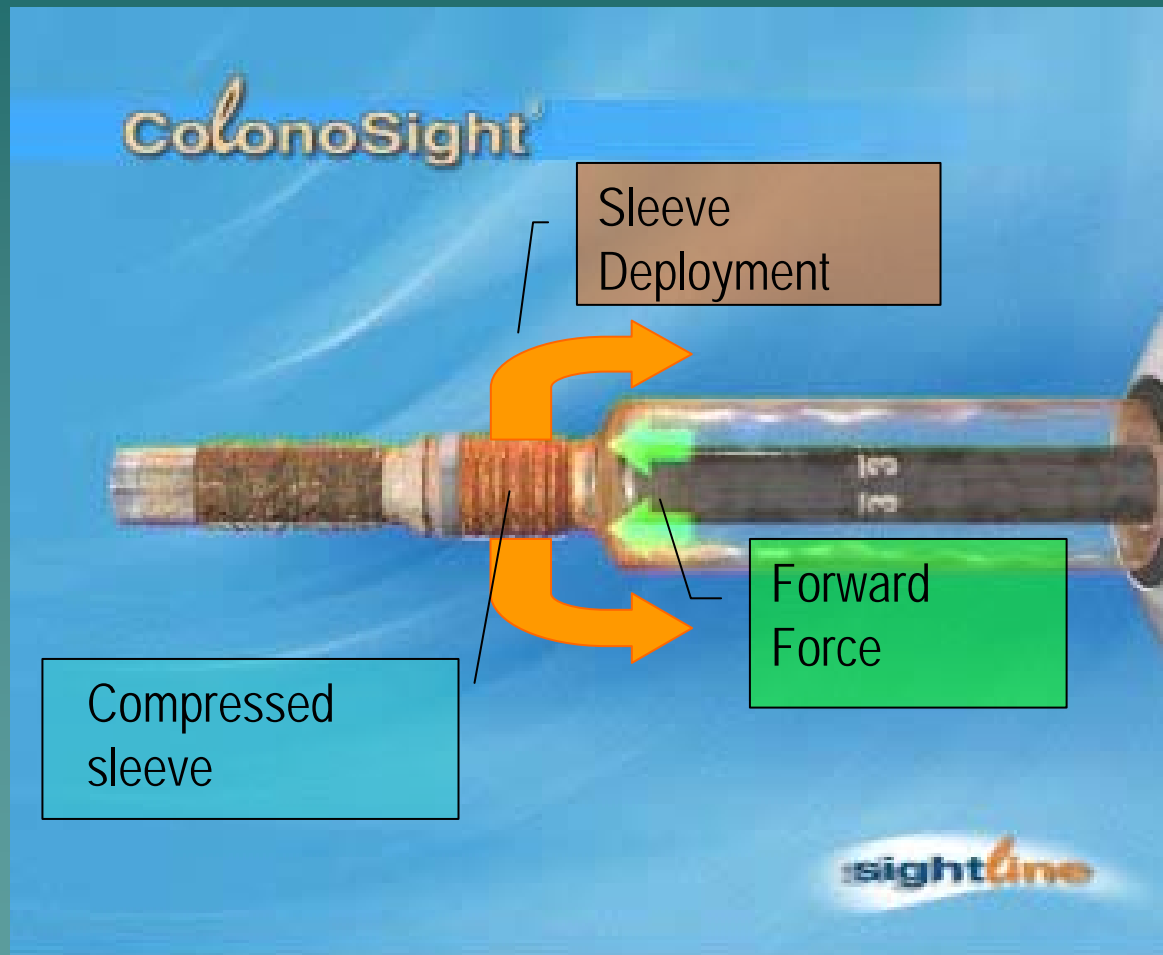
Disposability

- ◆ The ColonoSight[®] disposable sheath and work channels form a barrier between the scope, the patient and the medical staff.
- ◆ This results in
 - Effective prevention of cross contamination
 - Elimination of time consuming toxic disinfection
 - Faster patient turnover
 - Fewer personnel
 - Fewer scopes
 - Less maintenance

Disposable Technology



IntraPull™ Power Assisted Technology aids scope propulsion



Physical Properties

Pneumatic Power Assisted Pull:

- ◆ Effective force generated at the ColonoSight tip: 0.5* kg
 - ◆ Maximum push force used in standard colonoscopy 4.4* kg
- (*measured at bench tests)

Image:

- ◆ CCD image sensor
 - ◆ No. of effective pixels ~ 440,000*
 - ◆ Lighting: LED – imbedded in scope tip
- (*equivalent to newer standard colonoscopes)

Channel:

- ◆ Working/Suction diameter: 3.7 mm
- ◆ Standard Water/Air channels

Human Studies (Israel, Italy, U.S.)

- ◆ N= 84 (11F, 73 M)
- ◆ Age: 61 \pm 9 years
- ◆ Cecum reached: 88%
- ◆ Interventions: biopsy (18), polypectomy (4), APC (1)
- ◆ Complications – No immediate or delayed (two weeks)

Evaluation of Barrier Properties

- ◆ ColonoSight[®] was tested in both animal and clinical trials.
- ◆ Barrier properties of the disposable sleeve were tested using Dye Permeability Tests and In Vitro/In Vivo bacterial evaluations.
- ◆ No colonic bacteria were transferred through the barrier sleeve.

Summary

- ◆ ColonoSight® performs similarly to standard colonoscopes but has added benefits:
 - Disposability
 - Protection from disease transmission
 - Quicker patient turnover
 - Fewer scopes necessary
 - Less maintenance
 - Fewer personnel