A Practical Guide to Increasing Screening Colonoscopy

Proven methods for health care facilities to prevent colorectal cancer deaths

Prepared by the
Cancer Prevention and Control Program
Bureau of Chronic Disease Prevention and Control
The New York City Department of Health and Mental Hygiene and
New York Citywide Colon Cancer Control Coalition

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Introduction

Americans face a 6% lifetime risk of developing colorectal cancer, the second leading cause of cancer death in the United States after lung cancer. In 2002, the latest year for which national statistics are available, colon cancer killed 28,471 men and 28,132 women in the United States. Every year, colon cancer kills about 1,500 New Yorkers.

Colon cancer is one of the most preventable cancers. Regular screening colonoscopy could prevent most of these deaths by early detection and removal of both cancer and precancerous polyps. A national study of colonoscopies performed on 1,418 patients with polyps suggested that periodic colonoscopy could prevent 76% to 90% of colon cancers. Despite this evidence, screening rates are disturbingly low—especially among African Americans (the group most likely to die of the disease) and Hispanics.

Widespread use of colonoscopy as a routine screening tool is 10 to 15 years behind mammography. Nationally, only about 35% of people 50 and older (the age group most at risk) have ever undergone colonoscopy. In New York City, only 55% of those 50 and older have had colonoscopy in the last 10 years.

While New York City has made some progress, including doubling the number of colonoscopies performed in public hospitals (Figure 1) and reducing racial and ethnic disparities in screening rates (Figure 2), there is much more that we can and must do to significantly expand the use of colonoscopy.

The clear public health imperative, pressing medico-legal issues (such as liability for failure to diagnose cancer), and increased national attention to colorectal cancer screening (such as the new national HEDIS measure*) all drive future colonoscopy demand.

* Developed with the Centers for Disease Control and Prevention, the Harvard School of Public Health, and the RAND Corporation, the HEDIS measure assesses whether people aged 50 to 80 years have had appropriate colorectal cancer screening.
The Role of Colonoscopy in Preventing Colorectal Cancer

Colonoscopy is the gold standard among colon cancer screening tests. While other methods such as sigmoidoscopy, fecal occult blood testing (FOBT), double contrast barium enema, and computer tomographic (“virtual”) colonoscopy have been shown to reduce mortality, colonoscopy is the most sensitive and specific screening tool, and the only one that can actually prevent cancer. Colonoscopy allows visualization of the entire colon and rectum, enabling clinicians to identify and remove precancerous polyps and \textit{in situ} carcinomas in a single examination.

Of 1,000 average-risk asymptomatic men and women aged 50 and older who have a screening colonoscopy, 5% to 6% will have advanced adenomas (24% of which will develop into cancer over 20 years) and 0.5% to 1% will have cancer (Figure 3).³,⁸
While relatively expensive, colonoscopy remains cost-effective because it is highly sensitive and needs be performed only every 10 years for people at average risk. Many insurance plans, including Medicare and Medicaid, pay all or a portion of the cost.

**Doubling Colonoscopy Screening in New York City**

There is no doubt that New York City’s excellent medical institutions have the capacity to screen every eligible and willing resident every 10 years. Consider the following:

- In 2002, annual unused colonoscopy capacity was nearly 70,000, while potential maximum capacity was nearly 195,000.\(^9\)

Public hospitals in New York City were able to double the number of screening colonoscopies between 2003 and 2006 (**Figure 1**).

- Doubling citywide delivery of colonoscopy services over the next 5 years is, therefore, a reasonable and achievable goal.

**About This Guide**

The New York City Department of Health and Mental Hygiene (NYC DOHMH) developed this Guide in consultation with respected experts in colorectal cancer and based on the experience of hospitals which are innovators in the field, such as the Lincoln Medical and Mental Health Center.

It offers evidence-based, expert-endorsed clinical and administrative recommendations and practical tips and tools to help endoscopy units significantly expand the use of colonoscopy to screen for and prevent colorectal cancer – while maintaining safety, quality, and cost-effectiveness.

In addition, through a system of 5 Best Practices, this Guide shows how health care facilities and endoscopy units can boost colonoscopy volume, reduce no-show rates and wait times, and improve quality of services.

<table>
<thead>
<tr>
<th>5 Best Practices for Increasing Colonoscopy Screening</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Promote routine colonoscopy referral for outpatients 50 and older.</td>
</tr>
<tr>
<td>2. Use a &quot;direct endoscopy referral system&quot; for eligible patients.</td>
</tr>
<tr>
<td>3. Implement triage: Screen higher risk patients first.</td>
</tr>
<tr>
<td>4. Identify patients likely to slow “throughput” and schedule them later in the day.</td>
</tr>
<tr>
<td>5. Reduce no-show rates and improve quality with a patient navigation system.</td>
</tr>
</tbody>
</table>

These recommendations are based on studies conducted by the DOHMH and the New York Academy of Medicine with the New York Cancer Project of AMDeC Foundation, Inc. (a consortium of medical schools and other research institutions in New York State). These studies and the recommendations of an expert panel were discussed at a colon cancer summit convened in 2003,\(^{10}\) and continue to drive the DOHMH’s preventive strategies and initiatives, including the publication of this Guide.
Introduction References


Section I.
Recommendations and Best Practices for Expanding Colonoscopy

Hospitals are important settings to expand colonoscopy screening as they often serve large outpatient populations and often have, onsite, the oncological and gastroenterologic expertise needed to follow up patients with pathology. Onsite referral and screening can improve the quality of cancer prevention in hospital ambulatory services.

Best Practice #1.
Promote Routine Colonoscopy Referral for Outpatients 50 and Older.

New York City’s hospital systems provide large volumes of ambulatory care. Increasing colorectal cancer screening can start in your institution’s outpatient facilities or in the community (Table 1). The key goal is to ensure that all patients age 50 and older are referred for a screening colonoscopy every 10 years.

Raising colorectal cancer awareness within your institution should be closely coordinated with endoscopy units to ensure that increased demand can be met.

Setting Up and Supporting a Model Facility

- Designate an organizational colonoscopy “champion” to promote routine screening colonoscopy. Based on experience, NYC DOHMH suggests this champion should be a GI chief, medical director, or hospital executive.
- Establish a mechanism to reward those responsible for increases in colonoscopy screenings and for procedures for the underinsured.
- If funding full-time endoscopy lines is a problem, set up a colonoscopy funding pool for part-time endoscopists.

Table 1. Outreach strategies to expand colonoscopy screening*

<table>
<thead>
<tr>
<th>Ambulatory Care Clinics</th>
<th>Community Outreach</th>
<th>Information Technology</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal medicine</td>
<td>Places of worship</td>
<td>Query electronic medical record or billing systems monthly:</td>
<td>Paychecks/retirement checks</td>
</tr>
<tr>
<td>Family medicine</td>
<td>Community–based nonprofit organizations</td>
<td>For patients turning 50</td>
<td>Employee newsletters/bulletin boards</td>
</tr>
<tr>
<td>Geriatric medicine</td>
<td>Community health clinics</td>
<td>To identify patients aged 50 to 80 w/o documented CRC screening</td>
<td>Insurance forms</td>
</tr>
<tr>
<td>Mammography</td>
<td>Barbershops/ beauty salons</td>
<td>Program Physician Alert for patients 50+</td>
<td></td>
</tr>
<tr>
<td>Diabetes</td>
<td>Senior centers</td>
<td>Chart ticklers for patients 50+</td>
<td></td>
</tr>
<tr>
<td>Smoking cessation</td>
<td>Libraries</td>
<td>E-mail alerts to physicians and nurse practitioners</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Motor vehicle offices</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Partners such as the American Cancer Society may be able to help with flyers, chart ticklers, and/or incentives.
Best Practice #2.
Use a “Direct Endoscopy Referral System” for Eligible Patients.

Direct endoscopy referral system (DERS), sometimes called “open access,” is designed so primary care providers and nurse practitioners can medically clear patients and refer them directly for colonoscopy. DERS procedures may vary depending on whether the patient comes from inside your hospital system or is an external referral.

Most patients – as many as 80% – have no contraindications and can be processed through DERS. Table 2 features the Lincoln Hospital criteria for DERS.

<table>
<thead>
<tr>
<th>Most Patients ARE Eligible (Indications)</th>
<th>Some Are NOT (Contraindications)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients who meet one of these criteria ARE eligible for direct referral:</td>
<td>Patients who meet one or more of these criteria are NOT eligible for direct referral:</td>
</tr>
<tr>
<td>• Colorectal cancer screen in patients aged 50 to 75 years</td>
<td>• On anticoagulation therapy</td>
</tr>
<tr>
<td>• Positive fecal occult blood test (FOBT) or rectal bleed in a patient &lt; 75 years of age with no prior GI endoscopic workup</td>
<td>• Age 76 or older</td>
</tr>
<tr>
<td>• Iron deficiency anemia in patients &lt; 75 years of age with NO prior GI endoscopic workup</td>
<td>• Has a prosthetic heart value</td>
</tr>
<tr>
<td>• Family history of colorectal cancer (provided patient is at least 5 yrs younger than the age at which relative was diagnosed)</td>
<td>• Has a co-morbidity with a future life expectancy of less than 5 years</td>
</tr>
<tr>
<td>• Personal history of adenomatous colon polyps in a patient aged 50 to 75 years whose last colonoscopy was at least 5 years prior to referral</td>
<td>• Under treatment for any heart disease or heart failure*</td>
</tr>
<tr>
<td>• Colonic mass lesion seen on barium enema or CT scan</td>
<td>• Under treatment for diabetes, emphysema, or hypertension* (if coordination with primary care provider is limited)</td>
</tr>
</tbody>
</table>

* Patients being treated for heart disease, heart failure, diabetes, emphysema, or hypertension should be evaluated prior to endoscopy. This may be done in the primary care setting if good coordination and information flow exists with the endoscopy unit. Patients with these conditions, in a primary care setting without good coordination with the endoscopy unit, should be referred to the GI outpatient clinic.

Best Practice #3.
Implement Triage: Screen Higher Risk Patients First.

Efficient use of time and endoscopic resources depends on proper triage. Joint training for primary care physicians within the GI department is useful in setting up a triage system and increasing volume. Triage helps facilities reduce wait times by allocating limited resources based on need.

Colonoscopy Triage Priorities (from highest to lowest)
1. Symptomatic patients with rectal bleeding and/or anemia
2. Patients with positive FOBT
3. Symptomatic patients without any evidence of bleeding or obstruction
4. Patients with a family history of colorectal neoplasia
5. Asymptomatic men and women aged 50 to 75 who have never had a colonoscopy
Best Practice #4. Identify Patients Likely to Slow “Throughput” and Schedule Them Later in the Day.

Throughput is the total number of patients successfully completing colonoscopy in a given period. Decreasing no-show rates and safely reducing pre-op, post-op, and procedure time improves efficiency in the colonoscopy suite and increases the number of patients successfully examined. Table 3 provides tips on minimizing delays and increasing efficiency in throughput.

Table 3. Maximizing throughput

<table>
<thead>
<tr>
<th>Patients Known to Slow Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>History of difficult colonoscopy</td>
</tr>
<tr>
<td>History of diverticular disease</td>
</tr>
<tr>
<td>History of pelvic surgery or pelvic radiation</td>
</tr>
<tr>
<td>Over 75 years of age</td>
</tr>
<tr>
<td>Obese</td>
</tr>
<tr>
<td>Known to have comorbidities</td>
</tr>
<tr>
<td>Non-adherent to scheduled appointment time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Increasing Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule patients in small groups and assign an appointment time to the group; patients are then seen on a first-come, first-served basis.</td>
</tr>
<tr>
<td>Allocate 2 procedure rooms per endoscopist, if possible.</td>
</tr>
<tr>
<td>Keep pre-procedure time less than 1 hour.</td>
</tr>
<tr>
<td>Use ancillary personnel to handle paperwork.</td>
</tr>
<tr>
<td>Have patients send in their paperwork in advance.</td>
</tr>
<tr>
<td>Call patients to confirm appointment and answer last-minute questions.</td>
</tr>
<tr>
<td>Advise patients on how far in advance of their appointment to arrive.</td>
</tr>
<tr>
<td>Keep patients informed by phone if endoscopist is running late.</td>
</tr>
<tr>
<td>Start IVs in the holding area.</td>
</tr>
<tr>
<td>Aim to keep median colonoscopy procedure time less than 30 minutes.</td>
</tr>
<tr>
<td>Use allied personnel to handle recovery room issues.</td>
</tr>
<tr>
<td>Examine room-cleaning process to ensure turnover in 30 minutes. A highly efficient process can turn over a room in 25 minutes.</td>
</tr>
<tr>
<td>Examine setup of scope-cleaning stations for opportunities to reduce breakage during transport and/or time delay.</td>
</tr>
<tr>
<td>Expand GI suite hours to evenings and weekends.</td>
</tr>
</tbody>
</table>
Best Practice #5.
Reduce “No-Show” Rates and Improve Quality with a Patient Navigation System.

Several challenges face individuals seeking colonoscopy. Fear of pain and discomfort, embarrassment, difficulty with the preparation, distrust of the health care system, problems with transportation or insurance, lack of basic knowledge about what to expect, and time constraints prevent many people from getting colonoscopy and contribute to high no-show rates in some facilities.

Patient navigators are trained one-on-one educators who use low-tech, appropriate literacy approaches to ensure better patient education, to help patients address issues and fears, and to encourage adherence to appointment time and bowel prep. Navigators may also address insurance coverage questions.

Navigators can dramatically reduce no-show rates in hospitals that have implemented such programs; the costs of implementing a patient navigation program are generally offset by increases in billing and in examined patients.

Navigators are typically allied health care workers who understand the basics of colon cancer prevention and screening, and the cultural barriers that may limit screening participation. They work to help patients overcome these barriers, leading to dramatically lower no-show rates, improved patient understanding of colonoscopy, and improved bowel cleansing.* Table 4 on page 9 details the duties and specific services provided by patient navigators.

Follow Up Patients with Abnormal Colonoscopy Findings

Delay in follow-up is a quality issue that may also contribute to disparities in cancer mortality among various ethnic groups. It is always the facility’s responsibility to ensure that patients are notified of abnormal findings on colonoscopy.

Follow-up Managers

Assign patients with colonoscopy findings to follow-up managers who are charged with patient notification. Patient navigators are ideally suited to handle this role. Navigators can assist with many tasks, including:

- Helping patients make follow-up appointments
- Helping patients address key barriers to adherence
- Asking about any family members at high risk of colon cancer and offering counseling
- Calling patients who miss appointments to reschedule
- Conducting intensive outreach to non-adherent patients

Most non-adherent patients are receptive to outreach. See recommendations for non-adherent patient outreach in the Colon Health Patient Navigation Resource Kit, beginning on page 21.

* The NYC DOHMH partnered with NYC Health and Hospitals Corporation’s Lincoln Medical and Mental Health Center to test patient navigation. Lincoln is located in the South Bronx, one of the poorest neighborhoods in the country. Using a New York Community Trust grant, Lincoln, with support from the NYC DOHMH, safely tripled the volume of colonoscopies performed in less than 15 months.
Table 4. Roles and responsibilities of the Patient Navigator

- Check the daily scheduled appointments for the GI clinic, the colorectal surgery clinic, and the endoscopy suite
- Engage the patient in a conversation about any financial, logistical, or psychosocial barriers
- Provide each patient with the navigator’s name and phone number
- Schedule the pre-admission testing appointment, if applicable
- Assist eligible patients with pre-admission testing, if applicable
- Accompany patients to the pre-admission testing office for financial and medical clearance, if necessary
- Check to see if each patient is medically and financially cleared and then booked for colonoscopy
- Call each patient the day before the scheduled colonoscopy
- Review bowel prep procedure with each patient
- Make sure each patient knows the name and location of the clinic
- Give each patient clear directions to the facility and instructions on precisely where to go on arrival
- Greet patients on arrival to clinic
- Answer questions and explain delays, if any
- Enter patient data, colonoscopy results, disposition, and follow-up recommendations into the colonoscopy database as soon as available

Monitor on a Monthly Basis:

- Total number contacted through inreach
- Total number referred for screening
- Total number that declined screening
- Total number screened by type of screening
- Total number with pathologic findings
- Total number referred for case management
- Average waiting time for colonoscopy to be performed
- Total number of screening vs. diagnostic colonoscopies
- Demographics of patients undergoing screening and diagnostic colonoscopies
Data Tracking and Evaluation

Data tracking and evaluation are key components of assessing the performance and needs of any endoscopy unit. A database with key information fields should be set up to facilitate assessment. The key characteristics of a valuable database are:

- Consistent, accurate, and complete data entry
- Ability to query the data (this is not possible using most spreadsheet programs; therefore, database programs are preferable)
- Ability to generate reports

With little more than 25 variables as in the model below (Table 5), a database can be the most valuable tool to ensure follow-up of all patients with abnormal colonoscopy findings.

### Table 5. Sample colonoscopy database entries

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Patient ID</td>
</tr>
<tr>
<td>2</td>
<td>Patient Last Name</td>
</tr>
<tr>
<td>3</td>
<td>Patient First Name</td>
</tr>
<tr>
<td>4</td>
<td>Patient Navigator</td>
</tr>
<tr>
<td>5</td>
<td>Referring Physician</td>
</tr>
<tr>
<td>6</td>
<td>Date of Referral (MM/DD/YYYY)</td>
</tr>
<tr>
<td>7</td>
<td>FOBT (1-positive/0-negative/9-None)</td>
</tr>
<tr>
<td>8</td>
<td>Date of Colonoscopy (MM/DD/YYYY)</td>
</tr>
<tr>
<td>9</td>
<td>Type of Colonoscopy (1-Screening/2-Diagnostic)</td>
</tr>
<tr>
<td>10</td>
<td>Date of Birth (MM/DD/YYYY)</td>
</tr>
<tr>
<td>11</td>
<td>Gender (M/F)</td>
</tr>
<tr>
<td>12</td>
<td>Insurance Status (0-Uninsured/1-Medicaid/2-Medicare/3-Other)</td>
</tr>
<tr>
<td>13</td>
<td>Ethnicity (1-Hispanic/0-Non-Hispanic)</td>
</tr>
<tr>
<td>14</td>
<td>Race (1-White, 2-Black, 3-Asian, 4-Other)</td>
</tr>
<tr>
<td>15</td>
<td>Colonoscopy Normal (Yes/No)</td>
</tr>
<tr>
<td>16</td>
<td>Follow-up Manager</td>
</tr>
<tr>
<td>17</td>
<td>Number of Adenomatous Polyps Found (1,2,3, ..., 10+)</td>
</tr>
<tr>
<td>18</td>
<td>Cancer (Yes/No)</td>
</tr>
<tr>
<td>19</td>
<td>Stage (0,1,2,3,4,9-Undetermined)</td>
</tr>
<tr>
<td>20</td>
<td>Telephone Call #1 (MM/DD/YYYY)</td>
</tr>
<tr>
<td>21</td>
<td>Telephone Call #2 (MM/DD/YYYY)</td>
</tr>
<tr>
<td>22</td>
<td>Telephone Call #3 (MM/DD/YYYY)</td>
</tr>
<tr>
<td>23</td>
<td>Letter #1 (MM/DD/YYYY)</td>
</tr>
<tr>
<td>24</td>
<td>Letter #2 (MM/DD/YYYY)</td>
</tr>
<tr>
<td>25</td>
<td>Letter #3 (MM/DD/YYYY)</td>
</tr>
<tr>
<td>26</td>
<td>Follow-up Care (Provider Name)</td>
</tr>
<tr>
<td>27</td>
<td>Follow-up Mode</td>
</tr>
<tr>
<td>28</td>
<td>Date of First Follow-up</td>
</tr>
</tbody>
</table>

Benchmarking

Colonoscopy has been in widespread use since the late 1980s. Agreement on benchmarks is still being sought. Table 6 details 12 benchmarks in 4 key areas to assist with goal setting and quality improvement and control.
**Table 6. Recommendations for key benchmarks**

<table>
<thead>
<tr>
<th>Pathology</th>
<th>Quality Assurance</th>
<th>Volume</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 100% of positive FOBT followed with colonoscopy</td>
<td>• Cecal intubation successfully accomplished in at least 95% of colonoscopies</td>
<td>• Annual minimum colonoscopy volume of 1,500</td>
<td>• Wait times less than 30 days for asymptomatic patients w/+FOBT who are not anemic*</td>
</tr>
<tr>
<td>• About 28% of patients will have polyps</td>
<td>• Perforation rate less than 1/3,000 for screening colonoscopy</td>
<td>• Colonoscopy no-show rates of less than 10%</td>
<td>• Wait times less than 3 months for all other procedures</td>
</tr>
<tr>
<td>• At least two-thirds of colorectal cancers found at stages 0, 1, or 2</td>
<td>• At least 200 procedures for endoscopist to achieve proficiency in colonoscopy</td>
<td>• At least 50% of colonoscopies done for screening</td>
<td>• Median procedure time under 30 minutes and total time patient in unit under 2 hours</td>
</tr>
</tbody>
</table>

* Patients with significant rectal bleeding should be evaluated with greater priority.

**Quality Improvement**

Patient satisfaction is at the core of quality improvement and control. Simple, low-tech approaches such as satisfaction surveys/questionnaires appear to be effective in assessing patient satisfaction with the endoscopy unit. Some recommendations for establishing a simple and effective survey include:

- Establish the goals of the survey
- Determine your target population/sample
- Choose a method of administering survey
- Draft the survey
- Pre-test the survey in a small sample
- Disseminate the survey
- Collect and enter data
- Analyze data

Two sample questionnaires are contained in the Colon Health Patient Navigator Program Kit on pages 27-28 of this Guide.

**Foreign Language Surveys**

A questionnaire in Spanish is available at: [www.rand.org/health/surveys.html](http://www.rand.org/health/surveys.html)

Questionnaires in Bengali, Chinese, French, Gujarati, Hindi, Portuguese, and Urdu are available at: [www.cancernet.co.uk/isq.htm](http://www.cancernet.co.uk/isq.htm)
Section II.
Clinician-Focused Tools

Bowel Preparation
Inadequate bowel preparation is found in up to 25% of patients, and hinders the visualization of small polyps, decreases efficiency, and raises costs. There are many acceptable ways to prep the bowel. The best prep is one that is acceptable to the patient and gets the bowel cleansed safely.

The following section on bowel preparation for colonoscopy is adapted with permission from the American Society of Gastrointestinal Endoscopy’s Technology Status Evaluation Report.11

Background
Colonoscopy has become the standard method of examining the colon; however, the diagnostic accuracy of colonoscopy depends on the quality of the preparation. The ideal preparation for colonoscopy achieves the following:

- Reliably empties the colon of all fecal material
- Has no effect on the gross or histologic appearance of the mucosa
- Requires a relatively short period for ingestion and evacuation
- Causes no patient discomfort
- Has low potential for toxicity and produces no significant shifts of fluids or electrolytes

Polyethylene glycol electrolyte lavage solution (PEG-ELS) and oral sodium phosphate (NaP) solutions are the most widely used agents for colonic cleansing before colonoscopy.

Dehydration
Preventing dehydration is a primary concern when prescribing any bowel preparation. Patients should be counseled to maintain adequate fluid intake. There may be additional risks of nephrocalcinosis and renal failure with phosphate-containing preparations in some patients. Caution should be used in selecting preparations for patients at risk.

Types of Preparations
Table 7 compares isoosmotic vs. hyperosmotic preparations according to efficacy, patient profile, adverse effects, and mode of action. Appropriate preparation should be assessed for each patient. A summary of preparation agents can be found in Table 8.
Table 7. Isoosmotic vs. hyperosmotic bowel preparation

<table>
<thead>
<tr>
<th>Isoosmotic (PEG-ELS methods)</th>
<th>Hyperosmotic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mode of Action</strong></td>
<td></td>
</tr>
<tr>
<td>• Preparations containing polyethylene glycol (PEG)</td>
<td>• Hyperosmotic preparations containing monobasic and dibasic sodium phosphate (NaP) draw plasma water into bowel lumen to promote evacuation.</td>
</tr>
<tr>
<td>• Osmotically balanced, non-absorbable electrolyte solutions that cleanse bowel by washout of ingested fluid without significant fluid and electrolyte shifts.</td>
<td>• Liquid and tablet forms currently available.</td>
</tr>
<tr>
<td><strong>Efficacy</strong></td>
<td></td>
</tr>
<tr>
<td>• Produces adequate colon cleansing in 90% of adult and pediatric cases.</td>
<td>• Small volume hyperosmotic NaP preparations have been compared to PEG-ELS.</td>
</tr>
<tr>
<td>• Although 25% of patients receiving PEG-ELS experienced what they describe as more than minimal discomfort, 88% to 90% would repeat this method in the future.</td>
<td>• A meta-analysis of 1,286 subjects from 8 trials showed patients were somewhat more likely to complete the NaP based preparation, but that the 2 were therapeutically equivalent when successfully completed.</td>
</tr>
<tr>
<td>• Three studies comparing standard 4-liter PEG-ELS with 2-liter PEG-ELS and either magnesium citrate or bisacodyl preparation have shown equal efficacy for cleansing with increased patient acceptance for the lower volume regimen.</td>
<td>• There were no significant differences in the quality of the preparation across the groups when a tablet form of NaP was compared to conventional (liquid) NaP and PEG-ELS. Patients found the tablet preparation and aqueous NaP significantly easier to take than the PEG solution: 81.6% of those randomized to tablets, and 53.3% to the aqueous NaP reported they would take the preparation again for a future colonoscopy, whereas only 25% of the PEG group reported that they would choose this preparation.</td>
</tr>
<tr>
<td><strong>Adverse Effects</strong></td>
<td></td>
</tr>
<tr>
<td>• 5% - 15% of patients either have difficulty drinking the large amounts of fluid necessary, or develop symptoms such as nausea, vomiting, abdominal fullness, and cramps, leading to incomplete preparations.</td>
<td>• Both aqueous and tablet forms of NaP may alter serum electrolytes and extracellular fluid status by initially increasing retention of fluid, then causing excessive losses of both fluid and electrolytes in stool.</td>
</tr>
<tr>
<td>• Rarely, nausea, abdominal pain, aspiration of the solution, Mallory-Weiss tear, toxic colitis, PEG-induced pancreatitis, lavage induced pill malabsorption, SIADH, and cardiac arrhythmias.</td>
<td>• NaP based bowel preparations have been identified as a cause of renal failure from nephrocalcinosis. To alleviate possible complications from volume contraction, patients using NaP based preparations should be encouraged to drink fluids liberally during the day prior to their colonoscopy.</td>
</tr>
<tr>
<td>• Increase in plasma volume following PEG ingestion (2 studies), suggesting that careful monitoring of patients with concomitant disease states known to cause fluid retention may be warranted.</td>
<td>• Asymptomatic hyperphosphatemia occurs in up to 40% of patients, but clinically significant hyperphosphatemia is rare and usually limited to patients with renal failure.</td>
</tr>
<tr>
<td>• Net fluid absorption may be due to simultaneous ingestion of sugar from soda or fruit juice along with the preparation. Since glucose allows the sodium in the PEG-ELS to be absorbed, patients should be advised not to consume sugar-containing liquids within a few hours of their ingestion as glucose allows sodium in the PEG-ELS to be absorbed.</td>
<td>• In 1 study, 20% of patients undergoing bowel preparation had abnormally low potassium levels. NaP may be contraindicated in patients with renal failure, acute myocardial infarction or unstable angina, congestive heart failure, hypertension, ileus, intestinal malabsorption, and significant ascites.</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
</tr>
<tr>
<td>• Attempts to improve taste by altering specific electrolyte composition or addition of flavoring have met with conflicting results.</td>
<td>• Macroscopic and histological changes to the mucosa have been described in some patients who received NaP as a preparation for colonoscopy.</td>
</tr>
<tr>
<td>• PEG-ELS produces no significant change in weight, vital signs, serum electrolytes, or complete blood counts.</td>
<td>• Aphthoid erosions after colonic cleansing with NaP mimicking those seen in inflammatory bowel disease (2 reports). Therefore, many clinicians avoid the use of NaP preps in patients with suspected inflammatory bowel disease.</td>
</tr>
<tr>
<td>• PEG-ELS is relatively safe for patients with electrolyte imbalance, advanced liver disease, poorly compensated congestive heart failure, or renal failure.</td>
<td>• Does not alter the histologic appearance of the colonic mucosa.</td>
</tr>
</tbody>
</table>
Financial Considerations

Product pricing was obtained through online pharmacy sources in February 2006 and is detailed in Table 8.

Summary

The choice of a bowel preparation for colonoscopy is influenced by cleansing effectiveness, safety, ease of completion, adverse effects, patient tolerance, and cost. Although PEG-ELS and NaP are equally effective in colonic cleansing, NaP is better tolerated. However, NaP may be contraindicated in certain patient populations. The selection of a colonoscopy preparation requires clinical judgment and informed patient preference. Practitioners should continue to monitor the medical literature for subsequent data about efficacy, safety, and cost of colonoscopy preparations.

Table 8. Summary of agents for colonoscopy preparation

<table>
<thead>
<tr>
<th>Agent</th>
<th>Volume</th>
<th>Mechanism</th>
<th>Efficacy</th>
<th>Cost*</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEG-based Prep - Recommended for general use</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEG-ELS: Colyte, GoLYTELY</td>
<td>4 Liters</td>
<td>Isoosmotic</td>
<td>33%-91%</td>
<td>$18 - $20 for generic; $23-$34 for brands</td>
<td>• Relatively safe for patients with electrolyte imbalance, advanced liver disease, poorly compensated congestive heart failure, or renal failure.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Since glucose allows the sodium in the PEG-ELS to be absorbed, patients should be advised not to consume sugar-containing liquids within a few hours of their ingestion of PEG-ELS.</td>
</tr>
<tr>
<td>PEG-ELS: HalfLytely</td>
<td>2 Liters + 4 bisacodyl (5 mg each) tablets</td>
<td>Isoosmotic plus stimulant</td>
<td>93%-100%</td>
<td>$47.99**</td>
<td></td>
</tr>
</tbody>
</table>

| **Sodium-Phosphate Based Prep – Alternative for consideration in select patients** |        |                         |          |                |                                                                                                                                         |
| NaP (aqueous) Fleet Phosphosoda | 90ml   | Hyperosmotic            | 64%-90%  | (90ml = 3fl. oz.) $11 for 2 1.5 oz. bottles | • To alleviate possible complications from volume contraction, patients should be encouraged to drink fluids liberally during the day prior to their colonoscopy. |
|                              |        |                         |          |                | • May be contraindicated in patients with renal failure, acute myocardial infarction or unstable angina, congestive heart failure, hypertension, ileus, intestinal malabsorption, and significant ascites. |
| NaP (tablet) Visicol          | 28-40 tablets | Hyperosmotic              | 80%      | $66.25 for 40 tablets** |                                                                                                                                         |

* Prices from Walgreens.com and Costco.com
**Prices from Drugstore.com

Sedation

Most patients tolerate colonoscopy well with conscious sedation. Currently, standard conscious sedation consists of benzodiazepine plus a narcotic. This regimen provides low-cost, safe, and effective sedation. Patient comfort and satisfaction are key indicators of intention to return for follow-up procedures.

Propofol

Propofol (or Diprivan®) is an intravenous sedative-hypnotic agent from a class of intravenous anesthetics called alkylphenols. Currently, use of propofol is not standard in most GI practices for first colonoscopies but some experts recommend using the drug selectively in patients who have had prior difficulty with colonoscopy.
Some endoscopists prefer propofol because it has a more rapid onset, decreases frequency of repositioning, reduces post-procedure recovery time, and increases patient satisfaction with the procedure. Care must be taken with its use, however, because it provides a deeper level of sedation than benzodiazepine plus a narcotic, and may be associated with pulmonary aspiration or hypotension.

Compared with benzodiazepine plus a narcotic, propofol increases procedural costs up to $1,000 or more when administered by an anesthesiologist. Propofol is not a medically necessary expense for most average-risk colonoscopy patients without comorbidities.

**Recommendations for Appropriate Conscious Sedation Agent Selection**

- Consider standard conscious sedation for most patients having first colonoscopy
- Consider propofol with appropriate monitoring support for patients who have had a previous colonoscopy and had prior difficulties with colonoscopy
- Consult an anesthesiologist if neither standard conscious sedation nor propofol can be used

**Minimizing Complications**

Patients and referring physicians should understand the risks of colonoscopy, including the risks of not having one. This allows both to make a truly informed choice. Common complications detailed by the recent medical literature are detailed in Table 9. In general, for every 1 person screened who suffers a non-fatal colonoscopy complication, nearly 20 who are not screened die from colon cancer.

The most systematic recent study was a retrospective review of colonoscopies performed at the Mayo Clinic from 1994 through 2000. Among the 78,702 colonoscopies performed, there were 66 perforations and 1 death thought to be attributable to the procedure.

A Veteran’s Administration Cooperative Study in 2000 reported no perforations and no deaths in 3,121 screening colonoscopies. For every patient in the study who suffered a non-fatal complication (i.e., bleeding), there were 8.1 diagnoses and treatment of high-grade dysplasia or cancer, and 32.9 diagnoses and treatment of polyps greater than 10 mm, which shows the very positive risk to benefit relationship for colonoscopy.

<table>
<thead>
<tr>
<th>Study*</th>
<th>Year</th>
<th>Type</th>
<th>N</th>
<th>Polyps %</th>
<th>Cancer %</th>
<th>Perforation %</th>
<th>Bleeding %</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anderson</td>
<td>2000</td>
<td>Mixed</td>
<td>10,486</td>
<td></td>
<td></td>
<td>0.19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cobb</td>
<td>2004</td>
<td>Mixed</td>
<td>43,609</td>
<td></td>
<td></td>
<td>0.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dafnis</td>
<td>2001</td>
<td>Diagnostic</td>
<td>4,677</td>
<td></td>
<td></td>
<td>0.11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dafnis</td>
<td>2001</td>
<td>Therapeutic</td>
<td>1,389</td>
<td></td>
<td></td>
<td>0.22</td>
<td>0.86</td>
<td></td>
</tr>
<tr>
<td>Gatto</td>
<td>2003</td>
<td>Mixed</td>
<td>39,286</td>
<td></td>
<td></td>
<td>0.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Imperiale</td>
<td>2000</td>
<td>Screening</td>
<td>1,994</td>
<td>23</td>
<td>0.6</td>
<td>0.05</td>
<td>0.15</td>
<td>Bleeding includes polypectomies</td>
</tr>
<tr>
<td>Iqbal</td>
<td>2005</td>
<td>Mixed</td>
<td>78,702</td>
<td></td>
<td></td>
<td>0.08</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lieberman</td>
<td>2000</td>
<td>Screening 97% male</td>
<td>3,121</td>
<td>38</td>
<td>1.0</td>
<td>0.00</td>
<td>0.22</td>
<td>Bleeding includes polypectomies</td>
</tr>
<tr>
<td>Schoenfeld</td>
<td>2005</td>
<td>Screening 100% female</td>
<td>1,463</td>
<td>20.4</td>
<td>0.1</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>

* All studies can be found in the Key Articles on pages 31-33.
The overall health status of the patient may determine the choice of site where the procedure is performed, the form of sedation to be used, and whether the services of an anesthesiologist might help minimize risk. Comorbidity or procedural risk may tip the balance against recommending screening in some patients. Incidence of colonic neoplasia is higher in the elderly, but unfortunately, so is procedural risk.

**Recommendations for Minimizing Complications**

- Adherence with guidelines issued by specialty societies, such as the American Society for Gastrointestinal Endoscopy, helps ensure good practice standards.
- All patients should be assigned an American Society of Anesthesiologists (ASA) physical status.
- Most patients assigned ASA Class 3 should have their endoscopy performed in a hospital setting.*
  Screening colonoscopy is usually not appropriate for patients with an ASA classification higher than 3.

**Follow-up of Patients with Adenomas**

The timing of subsequent colonoscopies for patients with adenomas depends on the pathology and the number of adenomas detected. In many cases, endoscopy units’ availability for screening can be increased by decreasing unnecessarily frequent follow-up procedures.

**Recommendations for Follow-up Colonoscopies in Patients with Adenomas**

- Patients with small rectal hyperplastic polyps should be considered to have had normal colonoscopies and be scheduled for subsequent colonoscopies in 10 years.
- Patients with only 1 or 2 small (<1 cm) tubular adenomas with only low-grade dysplasia should have their next colonoscopy in 5 to 10 years.
- Patients with 3 to 10 adenomas, any adenomas ≥ 1 cm, any adenoma with villous features, or high-grade dysplasia should have a follow-up colonoscopy in 3 years if the adenomas have been completely removed.
- Patients who have more than 10 adenomas should have their first follow-up colonoscopy in less than 3 years.
- Patients who have sessile adenomas that are removed piecemeal should have a short interval follow-up colonoscopy (2-6 months).

**Section II References**


*American Society of Anesthesiologists Physical Status Classification System: ASA Class 1 – A normal healthy patient; ASA Class 2 – A patient with mild systemic disease; **ASA Class 3** – A patient with severe systemic disease; ASA Class 4 – A patient with severe systemic disease process that is a constant threat to life; ASA Class 5 – A moribund patient who is not expected to survive without the operation; ASA Class 6 – A declared brain-dead patient whose organs are being removed for donor purposes.*
Section III.
Tools and Resources for Administrators and Clinicians

There are many tools available to facilitate management of increased colonoscopy screenings, including navigation tools that enhance providers’ time management and improve processes overall in the colonoscopy suite (pages 21-26). Assessment tools are useful to monitor and ensure patient satisfaction (pages 27-28). A myriad of online resources are also available for busy clinicians and their patients (pages 29-30).

### CPT codes for colonoscopy

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>45355</td>
<td>Colonoscopy, rigid or flexible, transabdominal via colotomy, single or multiple</td>
</tr>
<tr>
<td>45378</td>
<td>Colonoscopy, flexible, proximal to splenic flexure; diagnostic, with or without collection of specimen(s) by brushing or washing, with or without colon decompression (separate procedure)</td>
</tr>
<tr>
<td>45379</td>
<td>With removal of foreign body</td>
</tr>
<tr>
<td>45380</td>
<td>With biopsy, single or multiple</td>
</tr>
<tr>
<td>45382</td>
<td>With control of bleeding, any method</td>
</tr>
<tr>
<td>45383</td>
<td>With ablation of tumor(s), polyp(s), or other lesion(s) not amenable to removal by hot biopsy forceps, bipolar cautery, or snare technique</td>
</tr>
<tr>
<td>45384</td>
<td>With removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps or bipolar cautery</td>
</tr>
<tr>
<td>45385</td>
<td>With removal of tumor(s), polyp(s), or other lesion(s) by snare technique</td>
</tr>
</tbody>
</table>
General Referral for Colonoscopy

From: ____________________________
Address: ____________________________
Phone: ____________________________
Fax: ____________________________

To: ____________________________
Address: ____________________________
Phone: ____________________________
Fax: ____________________________

Patient: ____________________________
DOB: ____________________________
Phone #: Home ____________________________
Work ____________________________

Contact Person (if not Patient):
Name: ____________________________
Phone #: Home ____________________________
Work ____________________________

Insurance Carrier: ____________________________
Policy ID #: ____________________________
Plan Authorization #: ____________________________

Request for: ( ) Colonoscopy Procedure
( ) Consultation ONLY

Reasons for Consultation: (check all that apply)

___ History of colon or rectal cancer or polyps
___ Family history of colon or rectal cancer or polyps
___ History of Crohn’s disease or ulcerative colitis
___ Any of the following: abdominal pain, cramps, rectal bleeding, diarrhea, constipation, change in usual bowel habits, loss of appetite, unexplained weight loss, nausea, vomiting, or black stool
___ Other gastrointestinal disorder (specify below)

Relevant history:
___ Prosthetic heart valve
___ Hypertension
___ Heart disease
___ Class III or IV heart failure
___ Diabetes
___ Emphysema
___ Other severe pulmonary disease
___ Other significant comorbidity (specify below)

___ Patient on Coumadin or anti-platelet therapy
___ History of adverse reaction to sedation or anesthesia

Date of Referral ____________________________

Signature of Referring MD ____________________________

To Referring Physician:
The above patient has been scheduled for a (circle one) consultation colonoscopy. This appointment is scheduled with

Dr. ____________________________
Name ____________________________
on ____________________________ at ____________________________ AM/PM

at ____________________________
Location ____________________________

You can contact this physician at ____________________________
Phone ____________________________
## Colon Cancer Screening Chart Stickers

Printable sheet of 30 labels per page

Available at:
Low-Cost Colonoscopy Programs

New York City-specific guidelines for colorectal cancer screening recommend that most people 50 years of age and older should undergo colonoscopy every 10 years.

1) New York City Health and Hospitals Corporation (HHC)
   Brooklyn
   • Coney Island Hospital (718) 616-3000
   • Kings County Hospital Center (718) 245-3131
   • Woodhull Medical and Mental Health Center (718) 963-8000
   Bronx
   • Jacobi Medical Center (718) 918-5000
   • Lincoln Medical and Mental Health Center (718) 579-5000
   • North Central Bronx Hospital (718) 519-5000
   Manhattan
   • Bellevue Hospital Center (212) 562-4141
   • Harlem Hospital Center (212) 939-1000
   • Metropolitan Hospital Center (212) 423-6262
   Queens
   • Elmhurst Hospital Center (718) 334-4000
   • Queens Hospital Center (718) 883-3000

HHC provides colonoscopy for patients who are uninsured. Patients may first need to see a primary care physician, who will then refer the patient to HHC for colonoscopy. Hospital staff will assist patients with applications for Medicare or Medicaid. Patients not eligible for insurance will be offered a sliding scale fee-for-service.

2) Staten Island
   • Staten Island University Hospital
   • American Cancer Society (ACS)
     ➞ Cancer Support Groups
     ➞ The Healthy Woman Partnership
     Colo-Rectal Cancer Screening Center (718) 226-2370 or www.siuh.edu
     Staten Island Region (718) 987-8871
     Contact Michelle Fusaro or Fran Newman (718) 987-8872
     Contact Kay Wilday, Yvette Serrano, or Jaymie Conte (718) 987-8872

3) New York State Department of Health: Cancer Services Program

The Cancer Services Program (CSP) Partnerships throughout the state provide cancer screening to low income, underinsured or uninsured residents.

Hospitals can become providers by contacting and agreeing to work with an existing contract holder. A letter of agreement to comply with eligibility guidelines, reimbursement schedules, and data submission requirements is also needed.

To become a provider with this program, hospitals can work with the local CSP Partnerships listed below. Contact information for CSP Partnerships outside the city can be found at http://www.health.state.ny.us/nysdoh/cancer/center/partnerships.htm.

<table>
<thead>
<tr>
<th>Borough</th>
<th>Contractor</th>
<th>Contact</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York</td>
<td>Columbia University</td>
<td>Grace Hillyer</td>
<td>(212) 342-1658</td>
</tr>
<tr>
<td>Queens</td>
<td>American Cancer Society</td>
<td>Carol Weber</td>
<td>(718) 263-2225 x37</td>
</tr>
<tr>
<td>Brooklyn</td>
<td>Bedford Stuyvesant Family Health</td>
<td>Jorge Bedon</td>
<td>(718) 636-4500 x115</td>
</tr>
</tbody>
</table>
Colon Health Patient Navigator Program Description

Please customize this program description to address your organization’s needs.

I. Shape Your Program

- Define program goals, objectives, and time frames.
- Formulate a patient navigator role description:
  - Define activities
  - Identify supervisor (for feedback and support) of this role
- Develop tools:
  - Intake form
  - Tracking system/follow-up log
  - Decision tree/algorithm
  - Brochures describing the program
- Identify other departments involved in caring for target patients:
  - Involve appropriate departments in program planning (i.e., radiology, radiation oncology, patient billing, rehabilitation, hematology/oncology clinic, and surgical, medical, and nursing staff)
- Formulate outreach and education strategies

II. Identify Potential Costs

- Patient navigator hiring, training, salary, and benefits
- Supervision
- Supplies, materials, and equipment:
  - Computers
  - Patient education/support/outreach materials
- Transportation (for patients who need it)
- Outreach incentives
- Advertising
- Evaluation

III. Identify Program Evaluation Methods

- Assess collected data.
- Assess whether the program is meeting goals and objectives.
- Assess the effect on the target population.
- Assess efficiency and effectiveness of program methods.
Colon Health Patient Navigator Job Description

The following describes the type of work required by colon health patient navigators.

Position Title: Colon Health Patient Navigator
Reports To: Director, Gastroenterology Health Services
Main Responsibilities: The colon health patient navigator’s primary function is guiding colon health patients through the health care system by assisting them with access issues, developing relationships with service providers, and tracking interventions and outcomes.

Colon Health Patient Navigator Activities Include:

- Guide patients through the health care system and help patients arrive at scheduled appointments on time and prepared.
- Follow up with patients when they have a suspicious colonoscopy or a positive finding.
- Connect patients to community and social support services.
- Facilitate interaction and communication with health care staff and providers.
- Provide colon health education to individuals and groups.
- Offer patient-education materials in several languages.
- Identify and develop relationships with personnel in departments involved in the care of colon health patients (i.e., physicians, surgeons, nurses, radiology staff, social services staff, radiation oncology staff, hematology/oncology clinic staff); offer educational sessions to inform practitioners of colon health patient navigator’s role and services, and to encourage referrals.
- Help patients find ways to pay for their colon health care.
- Help arrange patient transportation as needed.
- Build relationships with other patient navigators.
- Track interventions and outcomes.

Colon Health Patient Navigator Outreach Activities

- Use community health data such as cancer mapping to identify areas of high need colon health services.
- Work with churches, synagogues, schools, libraries, and community groups to increase colon health awareness. Involve the community in program planning if possible.
- Use interventions and strategies that are appropriate to the population by taking into account culture, language, age, gender and other factors.
- Conduct colon health education classes with individuals and groups.

Basic Requirements

The ideal candidate should:

- Have strong computer skills.
- Have excellent communication and writing skills.
- Work effectively in a team.
- Speak and read languages common to the community.
- Be familiar with community resources and hospital processes, structure, and function.
Colon Health Patient Navigator Policies and Procedures

The following are sample policies and procedures to consider for a colon health patient navigator program.

- Colon Health Patient Navigator/Patient Referral Policy Statement and Procedure

It is the policy of <YOUR FACILITY NAME> to provide colon health patients with an overview of the colon health patient navigator’s activities and responsibilities when providing referrals for community resources.

Objective: To ensure colon health patients receive appropriate referrals in a timely manner.

Colon health patient navigators will:
1. Provide patient with information about available services, resources, and support groups (internal and external).
2. Provide appropriate resources in a timely manner to meet specific patients’ needs.
3. Consider language, culture, and age in choosing referral options.
4. Allow patients time to consider resource options.
5. Serve as a liaison between the patient and the medical staff and services.
6. Assist with paperwork as needed (including social services and medical appointment assistance).

- Colon Health Patient Navigator Appointment Reminder Policy Statement and Procedure

It is the policy of <YOUR FACILITY NAME> to provide an overview of the colon health patient navigator’s activities and responsibilities when assisting patients with scheduling and keeping appointments.

Objective: To ensure optimal patient follow-up rates.

Colon health patient navigators will:
1. Contact the patient via mail (up to 3 times) to remind the patient to make an appointment for screening.
2. Contact the patient via telephone. If the patient does not respond after the third telephone attempt, or if the patient does not have a telephone, send a certified letter.
3. For patients that need a follow-up appointment, set up the appointment while the patient is receiving treatment (i.e., while patient is still in the clinic and before he/she leaves the hospital).
4. Coordinate follow-up visits if possible.
Colon Health Patient Navigator In-Service Policy Statement and Procedure

It is the policy of <YOUR FACILITY NAME> to provide an overview of the colon health patient navigator’s activities and responsibilities in defining their role to other hospital personnel.

Objective: To inform practitioners of services provided and encourage referrals.

Colon health patient navigators should:

1. Conduct in-service educational training with staff on colorectal cancer screening with colonoscopy, and the colon health patient navigator role.

2. Contact nursing/medical education department to inquire if continuing education credits are available.

3. Discuss importance of navigator’s role (i.e., education, patient support and tracking, and treatment adherence).

4. Discuss available community resources.

5. Give insight into characteristics of the population served.

6. Request referrals.

7. Explain the referral process.

8. Provide contact information (business card or other material) to hospital staff.

Colon Health Patient Navigator Community Outreach Policy Statement and Procedure

It is the policy of <YOUR FACILITY NAME> to provide an overview of the colon health patient navigator’s activities and responsibilities in providing colon health education to the community.

Objective: To ensure the community has access to colon health services information and education.

Colon health patient navigators should:

1. Use community health data such as cancer mapping to identify areas of high need colon health services.

2. Work with churches, synagogues, schools, libraries, and community groups to increase colon health awareness. Involve the community in program planning if possible.

3. Formulate and implement strategies and methods to reach target population.

4. Provide the community with educational classes on colon cancer prevention, early detection, and give screening guidelines.

5. Use appropriate interventions for providing colon health education to specific patient populations (i.e., culture- and age-appropriate educational materials and methods).

6. Discuss information regarding available colon health services at <YOUR FACILITY NAME>.

7. Document interventions, number of people reached, etc.
Colon Health Patient Navigator Intake Form

Name _____________________________________________________ Date ________________________________
Address ________________________________________________________________________________________
______________________________________________________________________________________________ Telephone Number __________________
Emergency Contact Person _________________________________ Telephone Number __________________

How were you referred to the Colon Health Patient Navigator Program?

☐ Health care provider Provider’s Name: _________________________________
☐ Hospital Hospital Name: _________________________________
☐ Support group Name of Group: _________________________________
☐ Clinic Name of Clinic: _________________________________
☐ Other Please Explain: ___________________________________________

Why were you referred to the Colon Health Patient Navigator Program?
_________________________________________________________________________________________________
_________________________________________________________________________________________________

Do any of the following hinder your ability to get to your appointments?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Childcare</td>
<td>☐</td>
</tr>
<tr>
<td>Transportation</td>
<td>☐</td>
</tr>
<tr>
<td>Job responsibilities</td>
<td>☐</td>
</tr>
<tr>
<td>Other (please explain):</td>
<td>☐</td>
</tr>
</tbody>
</table>

Do you have health insurance? ☐ ☐

Learning preferences:
In which language(s) do you prefer to learn? ____________________________________________

Which of the following methods are most helpful in learning a new subject?
(Check all that apply)

<table>
<thead>
<tr>
<th>Written</th>
<th>Video</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Oral</th>
<th>Demonstration</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>
Support system:
Who do you have available to help you at this time? ____________________________________________
Who do you have available to help you at home? ____________________________________________
How has your family or significant other responded? __________________________________________

Screening and follow-up care:
Date of Colonoscopy: ________________________________________________________________
Further Needs: ________________________________________________________________
Biopsy: ________________________________________________________________
Follow-up: ________________________________________________________________
Other: ________________________________________________________________
Follow-up: ________________________________________________________________

How do you feel the Colon Health Patient Navigator Program can best assist your personal needs?
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
Colon Health Patient Navigator Program

Patient Satisfaction Survey (#1)

We want to know what you think! We will use your comments to improve the Colon Health Patient Navigator Program. Please mark only one answer for each question and return this form in the postage-paid envelope provided.

Please check the appropriate box:

<table>
<thead>
<tr>
<th></th>
<th>Agree</th>
<th>Somewhat Agree</th>
<th>Somewhat Disagree</th>
<th>Disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The patient navigator was courteous</td>
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<td>2. The patient navigator was sensitive</td>
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<tr>
<td>3. The patient navigator was respectful</td>
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<td>4. The patient navigator was friendly</td>
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<td>5. The patient navigator was thorough</td>
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<tr>
<td>6. I liked working with the navigator</td>
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<td>7. Education materials I received were helpful</td>
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<td>8. Support services referrals met my needs</td>
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<td>9. I received financial information (if needed)</td>
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<tr>
<td>10. I would recommend this service to others</td>
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</tbody>
</table>

Do you have any suggestions for improving this service?
_________________________________________________________________________________________________
_________________________________________________________________________________________________
_________________________________________________________________________________________________

If you would like to discuss this further, please include your name and contact information:

Name: ____________________________________________________________
Telephone (or other contact information): ___________________________
Best time to contact you: _________________________________________

Thank you for your input.
Patient Satisfaction Survey (#2)

Please take just 5 minutes to fill out this survey about your recent colonoscopy at <YOUR FACILITY NAME>.

Circle the answer that is closest to how you feel.

THIS WILL ONLY TAKE 5 MINUTES OF YOUR TIME.

1. Was the staff polite and courteous—before, during, and after your colonoscopy?
   a) Yes.
   b) Some people were polite.
   c) I really didn’t notice one way or the other.
   d) Someone wasn’t nice to me. I think the person’s name or position was:
      ____________________________________________

2. The prep the night before the colonoscopy was:
   a) As bad as I thought it would be.
   b) Worse than I thought it would be.
   c) Better than I thought it would be.
   d) So unpleasant that I would refuse to have another colonoscopy.

3. The information I was given about my colonoscopy before the test was:
   a) More than I needed.
   b) Just right.
   c) Not enough.
   d) Not nearly enough. I still don’t know why I needed a colonoscopy.

4. During the actual colonoscopy:
   a) I was out of it. I don’t even remember having the test.
   b) I was mostly out, but I remember a short time.
   c) I remember a short time with some pain, cramps, or discomfort.
   d) I was very uncomfortable.
   e) I was so uncomfortable that I would not have another colonoscopy.

5. Overall, my first colonoscopy experience was:
   a) Great. Nothing to it.
   b) OK. It wasn’t as bad as I thought it was going to be.
   c) Worse than I was expecting. The worst part was: ____________________________.
   d) Very unpleasant. I wouldn’t do it ever again, even if my doctor said I had to.

Other suggestions, comments, or complaints:
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

YOUR NAME IS NOT REQUIRED (but you can give it if you want to)
______________________________________________________________________________
Useful Online Resources

FOR PATIENTS

*From New York City Department of Health and Mental Hygiene:*

Brochure: “Get Checked” Call 311 OR, visit:

Health Bulletin #4: Get Checked for Colon Cancer, Call 311 OR, visit:

FOR PROVIDERS AND GI UNIT ADMINISTRATORS

*From New York City Department of Health and Mental Hygiene:*

Colon Cancer Screening Action Kit, visit:

City Health Information: Preventing Colorectal Cancer, visit:

NYC Vital Signs: Cancer Screening in New York City: We Can Do Much Better, visit:

*From the American Gastroenterological Association:*

GI Encounter and Rounding Card, visit:
www.gastro.org/wmspage.cfm?parm1=196

GI Reimbursement/Compliance Manual 2nd Edition, visit:
www.gastro.org/wmspage.cfm?parm1=194

Going Into Practice: A Guide for the GI Physician, visit:
www.gastro.org/wmspage.cfm?parm1=195

HIPAA Tool Kit, visit:
www.gastro.org/wmspage.cfm?parm1=198

History and Physical Intake Forms, visit:
www.gastro.org/wmspage.cfm?parm1=199

Job Description Manual for the GI Practice, visit:
www.gastro.org/wmspage.cfm?parm1=193

Template for a GI Compliance Plan, visit:
www.gastro.org/wmspage.cfm?parm1=197
From the American Society for Gastrointestinal Endoscopy:

Computerized Endoscopic Medical Record Systems, visit:
www.asge.org/ns/pages/practice/management/establishing/computerized.cfm

Establishment of Gastrointestinal Endoscopy Areas, visit:
www.asge.org/ns/pages/practice/management/establishing/area.cfm

Guidelines for Open Access Endoscopy, visit:
www.asge.org/ns/pages/practice/management/establishing/openaccess.cfm

Infection Control During Gastrointestinal Endoscopy, visit:
www.asge.org/ns/pages/practice/management/establishing/infection.cfm

Medical Malpractice, visit:

Quality and Outcomes Assessment in Gastrointestinal Endoscopy, visit:

Quality Improvement of Gastrointestinal Endoscopy, visit:

Quality Safeguards for Ambulatory Gastrointestinal Endoscopy, visit:

Review of Endoscopic Claims, visit:

Standards of Care, visit:

Standards of Practice of Gastrointestinal Endoscopy, visit:
www.asge.org/ns/pages/practice/management/establishing/standards.cfm

Use of Propofol in Gastrointestinal Endoscopy, visit:

FOR INFORMATION ON INFORMED CONSENT, visit:

FOR INFORMATION ON DOCUMENTATION, visit:
Key Articles


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