Constipation Patient Information



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Constipation

It is normal to have a bowel movement (defecate) anywhere from three times a day to three times a week, as long as the stool (fecal matter) is soft and comfortable to pass. A person experiencing constipation has hard or lumpy stool, which is difficult to pass. Chronic constipation affects 15-30% of Canadians and is commonly found in young children and the elderly, occurring more frequently in females than in males.

Transit time is the duration between when food enters the mouth and when leftover waste finally passes out as stool. A meal could take anywhere from 12-72 hours to travel through the digestive tract. Each person is unique; a normal bowel movement pattern for one person may be very different from those of family members or friends. Some individuals have an irregular pattern, never knowing what to expect. Usually, before food enters the colon, most of the nutrients have been absorbed into the body and the colon's role is to remove water. If someone has a long transit time, meaning food passes slowly through the colon, then too much water is absorbed, hardening the stool.

Factors that can contribute to constipation, often by altering transit time, include:

- medication side effects (e.g., some narcotics, antidepressants, codeine, calcium or iron supplements, and medications that affect the nervous system),
- diseases in which there is a physiological change to some tissue or organ of the body (e.g., radiation therapy, inflammatory bowel disease, colon cancer, diabetes, stroke, hypothyroidism, or Parkinson's disease),
- functional disorders, such as irritable bowel syndrome, intestinal obstructions or strictures resulting from surgery, and
- diet and lifestyle choices, such as consuming a diet too low in fibre and fluid, insufficient physical activity, and chronic use of laxatives, suppositories, or enemas.

Symptoms/Complications

The increased length of time during which stool remains in the colon causes increased pressure on the bowel, leading to abdominal cramping and bloating. Bowel movements may occur infrequently, resulting in hard, lumpy, dry stool that resembles either many small pellets or one solid, hard, sausage-shaped piece. Rectal pressure or fullness, bloating, abdominal pain, and a sensation of incomplete evacuation are common symptoms of constipation. The slowdown in the digestive tract may also cause poor appetite, back pain, and general malaise.

Most complications result from the intense straining needed to pass stool. These include hemorrhoids, anal fissures, diverticular disease, bright red streaks on the stool (rectal bleeding), and a condition in which the rectal wall pushes out through the anus (rectal prolapse). Ask for our pamphlet on *Hemorrhoids*, if you would like more information on this topic.

Diagnosis

A panel of experts developed the main diagnostic criteria for functional constipation, and update them regularly. Below are the current Rome IV diagnostic criteria*.

- 1. must include two or more of the following:
 - straining during more than one-fourth (25%) of defecations
 - lumpy or hard stools (Bristol stool form scale 1 or 2) more than one-fourth (25%) of defecations
- sensation of incomplete evacuation more than one-fourth (25%) of defecations
- sensation of anorectal obstruction/blockage more than one-fourth (25%) of defecations
 - manual manoeuvres to facilitate more than one-fourth (25%) of defecations (such as digital evacuation, or support of the pelvic floor)
- fewer than 3 spontaneous bowel movements per week. Loose stools are rarely present without the use of laxatives
- 3. insufficient criteria for irritable bowel syndrome (IBS)

*Criteria fulfilled for the last 3 months with symptom onset at least 6 months prior to diagnosis.

A physician may order a number of tests, including blood analysis, to check for abnormal levels of thyroid hormone, electrolytes, or glucose, and a stool sample to examine for hidden (occult) blood. Other tests include a sigmoidoscopy or colonoscopy, which are examinations involving an instrument that allows a physician to see the inside of the rectum and colon. Colorectal screening is recommended in persons older than 50 years of age.

It is important to differentiate between temporary (acute) constipation and chronic constipation, as the treatments and recommendations may differ.

Management

Always check with your healthcare provider before making major changes to your treatment plan and be sure these actions won't interfere with other conditions you might have.

Dietary and Lifestyle ModificationsDiet

Eating regular, well-balanced meals and snacks with high-fibre content, as outlined in *Canada's Food Guide*, available on the Health Canada website, and maintaining an adequate fluid intake, is the recommended approach to prevent and manage constipation. (For more information on fibre, contact our office.)

Exercise

Exercise helps move food through the colon more quickly. Aerobic exercise, such as brisk walking, accelerates your heart and breathing rates, and helps to stimulate the natural contractions of intestinal muscles.

Physiotherapy

Pelvic dysfunction physiotherapy may include bowel retraining, electrical stimulation, and posture correction.

Medication Therapy

If constipation does not improve with diet and lifestyle changes, then there are supplements and medications available.

Bulk Forming Agents

These are made of indigestible fibre, which absorbs and retains fluid and helps to form a soft, bulky stool (e.g., Metamucil*, Prodiem*). While not quick-acting, they are safe for long-term use. Add these to your diet gradually and increase your fluid intake at the same time.

Enemas

An enema involves insertion of a liquid, usually water, into the rectum via the anus. Typically, after holding the liquid in place for a few minutes, there is an intense urgency to move the bowels.

Stool Softeners

These products work by holding water in the stool (e.g., Colace*). They are safe for long-term use and for pregnant women and the elderly.

Lubricants

Lubricant laxatives coat the colon and stool in a waterproof film, allowing it to remain soft and slip easily through the intestine, usually within 6-8 hours. Don't use these products for longer than a week, as some have been shown to cause vitamin deficiencies and medication interactions. An example of a lubricant laxative is mineral oil. Mineral oil is not recommended for pregnant women or for persons who have difficulty swallowing.

Stimulants

These laxatives increase muscle contractions to move food along the digestive tract more quickly (e.g., Exlax*, Dulcolax*, castor oil, senna tea, and Senokot*). While helpful for constipation, they can come with abdominal cramping, pain, or discomfort, diarrhea, electrolyte abnormalities, including low potassium (hypokalemia), and nausea. Therefore, stimulants are typically recommended for short-term use. However, in some individuals, constipation does not resolve with dietary adjustments, exercise, or short-term laxative use. For those with persistent or difficult constipation, physicians might suggest long-term laxative use, so it is important to check with your doctor if you need ongoing stimulant assistance for a bowel movement. These are not recommended for pregnant women.

Hyperosmotics

Osmotic laxatives encourage bowel movements by drawing water into the bowel from nearby tissue (intestinal lumen), thereby softening stool. Some of these laxatives can cause electrolyte imbalances if they draw out too many nutrients and other substances with the water. They can increase thirst and dehydration. There are four main types of hyperosmotics:

• Saline laxatives are salts dissolved in liquid; they rapidly empty all contents of the bowel, usually working within 30 minutes to 3 hours. Examples

of saline laxatives are citrate salts (e.g., Royvac*), magnesium preparations (e.g., Phillips'* Milk of Magnesia), sulfate salts, and sodium phosphate. They are not intended for long-term use or for pregnant women.

- Lactulose laxatives are sugar-like agents that work similarly to saline laxatives but at a much slower rate, and are sometimes used to treat chronic constipation. They take 6 hours to 2 days to produce results.
- Polymer laxatives consist of large molecules that
 cause the stool to hold and retain water. They are
 usually non-gritty, tasteless, and are well tolerated
 for occasional constipation. Results can be expected
 within 6 hours, but it can take longer depending
 on the dose. An example of a polymer laxative is
 polyethylene glycol (e.g., PegaLAX*).

Glycerine is available as a suppository and mainly
has a hyperosmotic effect, but it may also have a
stimulant effect from the sodium stearate used in the
preparation. Glycerine is available through several
manufacturers.

Enterokinetic

Prucalopride succinate (Resotran*) works by targeting the serotonin (5-HT4) receptors in the digestive tract to stimulate motility (muscle movement). It has Health Canada approval for the treatment of chronic idiopathic constipation in women for whom laxative treatment has failed to provide relief. Resotran* usually produces a bowel movement within 2-3 hours and then spontaneous complete bowel movements typically begin occurring within 4-5 days of starting treatment. Side effects may include nausea, diarrhea, abdominal pain, and headache, mostly following the initial dose and then subsiding with ongoing treatment.

Guanylate cyclase-C agonist

Linaclotide (Constella*) works by increasing intestinal fluid secretion, which helps ease the passage of stool through the digestive tract, relieving associated symptoms and has Health Canada approval for the

treatment of chronic idiopathic constipation in men and women. In clinical trials, Constella® showed a statistically significant improvement compared with placebo for complete spontaneous bowel movements. The results occurred within the first week, often on the first day, of dosing and were sustained over the 12-week treatment period. Diarrhea is the most commonly noted side effect.

Outlook

Constipation can occur for many reasons, so treatment often requires trial and error. An individual may experience a short bout of constipation and return to a normal routine, or it may be an ongoing health issue. With diet and lifestyle changes, and the proper use of supplements and medications, most forms of constipation are manageable. If your bowel habits change drastically for no apparent reason, be sure to consult your physician.

Find Out More

Ongoing research continues to reveal more about the symptoms, causes, cures, treatments, and preventative measures associated with GI and liver conditions. It would be our pleasure to send you a full information package on this topic.

Your Voice Matters to Us

Reach us at info@badgut.org with your comments or suggestions to help us make this booklet more valuable for you and other readers.

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About Us

As the Canadian leader in providing trusted, evidence-based information on all areas of the gastrointestinal (GI) tract, the Gastrointestinal Society is committed to improving the lives of people with GI and liver conditions, supporting research, advocating for appropriate patient access to healthcare, and promoting gastrointestinal and liver health.

The Inside Tract® newsletter provides the latest news on GI research, disease and disorder treatments (e.g., medications, nutrition), and a whole lot more. If you have any kind of digestive problem, then you'll want this timely, informative publication.

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