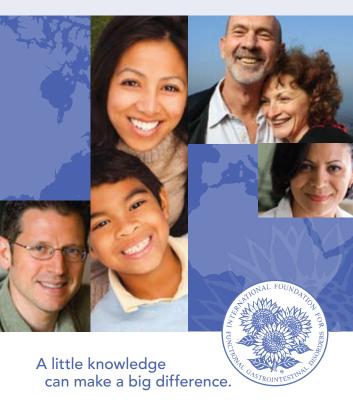
GASTROESOPHAGEAL REFLUX DISEASE (GERD)



INTRODUCTION

Gastroesophageal reflux disease, or GERD, is very common, affecting up to 1 in 5 or more of adult men and women in the U.S. population. It also occurs in children. Although common, the disease often is unrecognized — its symptoms misunderstood. This is unfortunate because GERD is generally a treatable disease, though serious complications can result if it is not treated properly.

The purpose of this publication is to advance understanding of the nature of GERD, how to recognize the disorder, and how to treat it. Heartburn is the most frequent – but not the only – symptom of GERD. (The disease may be present even without apparent symptoms.) Heartburn is not specific to GERD and can result from other disorders that occur inside and outside the esophagus. All too often, GERD is either self-treated or mistreated.

GERD is a chronic disease. Treatment usually must be maintained on a long-term basis, even after symptoms have been brought under control. Issues of daily living and compliance with long-term use of medication need to be addressed as well. This can be accomplished through follow-up and education.

GERD is often characterized by painful symptoms that can undermine an individual's quality of life. Various methods to effectively treat GERD range from lifestyle measures to the use of medication or surgical procedures. It is essential for individuals who suffer the chronic and recurrent symptoms of GERD to seek an accurate diagnosis, to work with their physician, and to receive the most effective treatment available.

WHAT IS GERD?

Gastroesophageal reflux disease, or GERD, is a very common disorder. *Gastroesophageal* refers to the stomach and the esophagus. *Reflux* refers to the back-flow of acidic or non-acidic stomach contents into the esophagus. GERD is characterized by symptoms, with or without tissue damage, that result from repeated or prolonged exposure of the lining of the esophagus to acidic or non-acidic contents from the stomach. If tissue damage is present, the individual is said to have esophagitis or erosive GERD. The presence of symptoms with no evident tissue damage is referred to as non-erosive GERD.

GERD is often accompanied by symptoms such as heartburn and regurgitation of acid. But sometimes there are no apparent symptoms, and the presence of GERD is revealed only when complications become evident.

WHAT CAUSES REFLUX?

After swallowed food travels down the esophagus, it stimulates cells in the stomach to produce acid and pepsin (an enzyme), which aid digestion. A band of muscle at the lower part of the esophagus, called the lower esophageal sphincter (LES), acts as a barrier to prevent the back-flow (reflux) of stomach contents into the esophagus. The LES normally relaxes to allow swallowed food to pass into the stomach. Reflux occurs when that barrier is relaxed at inappropriate times, is weak, or is otherwise compromised. Factors like distention of the stomach, delayed emptying of the stomach, large sliding hiatal hernia, or too much acid in the stomach can also make it easier for acid reflux to occur.

WHAT CAUSES GERD?

There is no known single cause of GERD. It occurs when the esophageal defenses are overwhelmed by gastric contents that reflux into the esophagus. This can cause injury to tissue. GERD can also be present without esophageal damage (approximately 50–70% of patients have this form of the disease).

Gastroesophageal reflux occurs when the LES barrier is somehow compromised. Occasional reflux occurs normally, and without consequence other than infrequent heartburn, in people who do not have GERD. In people with GERD, reflux causes frequent symptoms or damages the esophageal tissue.

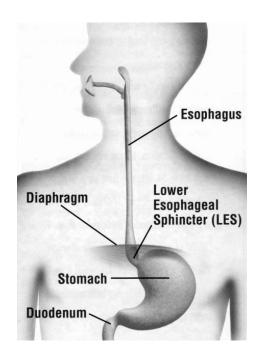
Some, but not all, people with hiatal hernia have GERD and vice versa. Hiatal hernia occurs when a part of the stomach moves above the diaphragm, from the abdominal to the chest area. The diaphragm is a muscle that separates the chest (containing the esophagus) from the abdomen (containing the stomach). If the diaphragm is not intact, it can compromise the ability of the LES to prevent acid reflux. A hiatal hernia may decrease the sphincter pressure necessary to maintain the antireflux barrier.

Even when the LES and the diaphragm are intact and functioning normally, reflux can still occur. The LES may relax after having large meals leading to distension of the upper part of the stomach. When that happens there is not enough pressure at the LES to prevent reflux. In some patients the LES is too weak or cannot mount enough pressure to prevent reflux during periods of increased pressure within the abdomen.

The extent of injury to the esophagus – and the degree of severity of GERD – depends on the frequency of reflux, the amount of time the refluxed material stays in the esophagus, and the quantity of acid in the esophagus.

WHAT ARE THE COMMON SYMPTOMS OF GERD?

Symptoms of GERD vary from person to person. The majority of people with GERD have mild symptoms, with no visible evidence of tissue damage and little risk of developing complications. Chronic heartburn is the most frequently reported symptom of GERD. Acid regurgitation (refluxed acid into the mouth) is another common symptom, sometimes associated with sour or bitter taste.



CAN SYMPTOMS OTHER THAN HEARTBURN BE SIGNS OF GERD?

Numerous symptoms other than heartburn are associated with GERD. These may include belching, difficulty or pain when swallowing, or waterbrash (sudden excess of saliva). An alarming symptom needing prompt medical attention is dysphagia (the sensation of food sticking in the esophagus). Other GERD symptoms may involve chronic sore throat, laryngitis, throat clearing, chronic cough, and other oral complaints such as inflammation of the gums and erosion of the enamel of the teeth. Small amounts of acid can reflux into the back of the throat or into the lungs and cause irritation. Hoarseness in the morning, a sour taste, or bad breath may be clues of GERD. Chronic asthma, cough, wheezing, and noncardiac chest pain, (it may feel like angina) may be due to GERD. People with these symptoms often have less frequent or even absent typical symptoms of GERD such as heartburn.

Chest pain or chest pressure may indicate acid reflux. Nevertheless, this kind of pain or discomfort should prompt urgent medical evaluation. Possible heart conditions must always be excluded first.

When seeing a doctor, relief or improvement of symptoms after a two-week trial therapy with a proton pump inhibitor (a prescription medication that inhibits gastric acid secretion) is an indication that GERD is the likely cause. This can also be confirmed with pH monitoring, which measures the level of acid refluxing into the esophagus and as high as the larynx.

WHAT IS HEARTBURN?

Most people describe heartburn as a burning sensation in the center of the chest behind the breast bone. It may radiate upward toward the throat. Heartburn is usually caused by acid reflux in the esophagus. The lining of the esophagus is much more sensitive to acid than the stomach, which is why the burning sensation is felt. In people with GERD, persistent heartburn can be painful, can disrupt daily activities, and can awaken a person at night.

IS HEARTBURN DANGEROUS?

Heartburn is a symptom. It is very common; it is estimated that over 44% of adult Americans have heartburn at least once a month. Nevertheless, if heartburn occurs on a regular basis, the acid that causes heartburn has the potential to injure the lining of the esophagus. It can cause ulceration, which may cause discomfort or even bleeding. Stricture (narrowing of the esophagus caused by acid, which leads to scar formation) can also result from chronic and frequent acidic reflux. People with stricture have difficulty swallowing food.

Severity, frequency, or intensity of symptoms cannot distinguish between patients with or without erosive GERD. However, heartburn that occurs more frequently than once a week, becomes more severe, or occurs at night and wakes a person from sleep, may be a sign of a more serious condition and consultation with a physician is advised. Atypical symptoms such as hoarseness, wheezing, chronic cough or non-cardiac chest pain may also need to be evaluated by a physician for GERD as a cause. Even occasional heartburn — if it has occurred for

a period of five years or more, or is associated with dysphagia — may signal an association with a more serious condition. People with long-standing chronic heartburn are at a greater risk for complications including stricture or a potentially pre-cancerous disease that involves a cellular change in the esophagus called Barrett's esophagus.

WHEN ARE OVER-THE-COUNTER PREPARATIONS APPROPRIATE TO TREAT HEARTBURN?

Multiple preparations are available without a prescription to treat occasional heartburn. These include: antacids, which neutralize acid (e.g., sodium bicarbonate, calcium carbonate, aluminum hydroxide, magnesium hydroxide); alginic acids (e.g., Gaviscon, Foamicon), which form a foam barrier to reflux; and low-dose H2 blockers (e.g., Pepcid, Tagamet, Zantac, Axid), which reduce acid production – and are available in higher doses by prescription to treat GERD. These medications are useful to relieve intermittent heartburn, particularly if brought on occasionally by foods or various activities. Antacids and alginic acids give the most rapid relief. The H2 blockers give more sustained relief and are most useful if taken prior to an activity known to bring on heartburn, like eating spicy foods. Prilosec OTC, Zegerid OTC, and Prevacid 24HR are proton pump inhibitors (PPIs) now available over-thecounter. These are far more powerful than the other medications mentioned above. They are recommended to be taken daily for 14 days. They are not intended to be taken on an as needed basis. If the symptoms are not improved or if they recur after stopping the PPI, one should see a doctor.

Over-the-counter preparations provide only temporary symptom relief. They do not prevent recurrence of symptoms or allow an injured esophagus to heal. They should not be taken regularly as a substitute for prescription medicines — they may be hiding a more serious condition. If needed regularly, for more than two weeks, consult a physician for a diagnosis and appropriate treatment.

HOW IS GERD DIAGNOSED?

A diagnosis of GERD should be made by a doctor. The disease can usually be diagnosed based on the presentation of symptoms alone. GERD can occur, however, with atypical symptoms or even no apparent symptoms. Diagnostic tests may be used to confirm or exclude a GERD diagnosis or to look for atypical symptoms or even no apparent symptoms. Tests also may be used to confirm or exclude GERD-related complications such as inflammation, stricture, or Barrett's esophagus.

WHAT TESTS ARE USED TO DIAGNOSE GERD?

Diagnostic tests are used to confirm or exclude GERD or as part of a pre-surgical evaluation. One method is a therapeutic trial with a proton pump inhibitor, or PPI, a medication used to treat GERD. Studies have shown that symptomatic relief after two weeks of treatment with a PPI correlates with a diagnosis of GERD. Other tests include:

- Endoscopy
- Esophageal manometry
- Esophageal pH monitoring
- Esophageal impedance + pH

Endoscopy is used to identify complications such as inflammation (esophagitis), stricture, or Barrett's esophagus. Endoscopy is an extremely safe procedure. A thin fiberoptic tube is used to examine the esophagus, stomach, and upper part of the small intestine. The individual is sedated so that the procedure can be performed comfortably. A painless biopsy (tissue sample) may be taken of the lower end of the esophagus to determine if Barrett's esophagus is present.

Esophageal manometry measures pressure throughout the esophagus and in the area of the LES. A thin tube is inserted through the nose and into the esophagus. The test helps a physician determine whether the esophagus and LES are functioning properly.

Esophageal pH monitoring uses a thin tube inserted through the nose and into the esophagus, or a wireless pH capsule placed into the lower part of the esophagus during endoscopy. Both techniques sense and measure the amount of acid in the esophagus, over a 24-hour period for the probe and 48 hours for the capsule. Normal activities may be conducted while monitoring acid levels. Measurements can tell whether reflux is causing symptoms, how often reflux occurs, and how much acid is refluxed.

Esophageal impedance + pH uses a thin tube inserted through the nose and into the esophagus to sense and measure any type of reflux (acidic or non-acidic) that flows back into the esophagus. Measurements can tell whether acidic or non-acidic reflux is causing symptoms, how often reflux occurs, and how much is refluxed.

IS GERD ASSOCIATED WITH CANCER OF THE ESOPHAGUS?

In a small subset of patients with GERD, a complication has been identified as a potentially pre-cancerous condition. The condition is called Barrett's esophagus. It occurs when a transformation takes place in the normal tissue lining of the esophagus and is a risk factor for the development of esophageal cancer. The number of people who develop Barrett's esophagus is relatively small; approximately 10% of patients who have GERD will develop the condition, and only about 0.5% per year of those will develop esophageal cancer. Barrett's esophagus is most common in people who have had heartburn for many years (more than 5–10 years), are over the age of 50, and are Caucasian males. If Barrett's esophagus is present, regular endoscopic surveillance is advised.

Not everyone with frequent or severe heartburn will develop Barrett's esophagus. For some reason, some people have heartburn and no esophageal damage, while other people have esophageal damage and no heartburn. Nevertheless, for those with chronic GERD or frequent symptoms, it is prudent to see a doctor for evaluation and consideration for an endoscopy to determine if Barrett's esophagus is present.

In the absence of Barrett's esophagus, there is not strong evidence that GERD is a risk factor for developing cancer. It is wise, however, to work with a doctor and be evaluated periodically to determine if the current course of treatment is optimal.

IS THERE A RELATIONSHIP BETWEEN GERD AND A GASTRIC INFECTION AS THERE IS FOR ULCERS?

Infection with *Helicobacter pylori* bacteria (*H. pylori*) is associated with peptic ulcer (an ulcer in the duodenum or the stomach). There is no strong evidence that *H. pylori* can cause GERD.

IS GERD CAUSED BY DIET AND WRONG FOODS?

Diet by itself does not cause GERD. Nevertheless, gastroesophageal reflux and its most frequent complaint of heartburn can be aggravated by foods. The foods that most often bother people are chocolate, onion, fried foods, fatty foods, peppermint, alcohol, caffeinated or carbonated beverages, and acidic foods. Spicy foods and citrus foods can worsen heartburn. Large fatty meals, because they slow the emptying of the stomach, and eating late at night can contribute to night-time heartburn. Alcohol can weaken the LES and make reflux worse.

CAN STRESS MAKE REFLUX WORSE?

More than 50% of patients complain that stress makes their heartburn worse. Studies using 24-hour pH monitoring show that the presence or absence of stress does not affect the total amount of actual reflux. However, stress has been shown to make the esophagus more sensitive to acid. The perception of frequency and severity of symptoms is amplified during stressful events. Stress management in these individuals appears to be beneficial.

WHAT IS THE TREATMENT FOR GERD?

GERD is a recurrent and chronic disease for which long-term medical therapy is generally effective. It is important to recognize that chronic reflux does not resolve itself. There is not yet a cure for GERD. Long-term and appropriate treatment is necessary.

The treatment of GERD is generally initiated by an individual when symptoms develop or when an individual with no apparent symptoms develops complications of GERD. The goals of treatment are: to bring the symptoms under control so that the individual feels better; heal the esophagus of inflammation or injury; manage or prevent complications such as stricture; and maintain the symptoms of GERD in remission so that daily life is unaffected or minimally affected by reflux. Treatment options include lifestyle modifications, medications, surgery, or a combination of methods.

Lifestyle modifications: Avoid factors that may aggravate symptoms, such as: reduce fats (they delay the emptying of gastric material and reduce LES pressure); reduce intake of caffeine, chocolate, onions, peppermint, and carbonated beverages (they decrease LES pressure); and eliminate or reduce intake of citrus and tomato products (acidic foods increase esophageal acid sensitivity). Increase protein intake (may accelerate gastric emptying). Alcohol intake and smoking adversely affect LES pressure and acid secretion. Do not lie down within 3–4 hours after eating (gastric distention stimulates LES relaxation). Avoid bending over or exercises that may increase intra-abdominal pressure. Elevating the head of the bed 6" may help to more rapidly clear

refluxed acid from the esophagus at night. Sleeping on one of your sides (usually the left) may help reduce the amount of reflux. Take actions to help get a good night's sleep, like a calming activity before bedtime and going to bed at the same time each night.

Disclose the use of any medications to your physician. Certain medications can worsen symptoms. Some examples include: nonsteroidal anti-inflammatory drugs (used commonly to treat arthritis and general inflammation) can cause direct esophageal injury; sedatives and calcium channel blockers (used primarily to treat high blood pressure and angina) relax the LES; narcotics slow gastric emptying and worsen reflux; alendronate sodium (used to treat osteoporosis), unless taken exactly as directed and with lots of water, may damage the esophagus or increase reflux.

Medications: The classes of drugs prescribed to treat GERD are promotility agents, H2 blockers, and proton pump inhibitors. Promotility agents, such as metoclopramide (Reglan) primarily accelerate gastric emptying. Reglan should *not* be prescribed as the only treatment for GERD, but rather as an addon to other anti-reflux medications in patients with gastroparesis. The drug may cause neurological side effects that may not go away after discontinuation.

H2 blockers (famotidine, cimetidine, ranitidine, nizatidine) reduce the amount of acid produced in the stomach. In prescription doses, they eliminate symptoms and allow esophageal healing in about

50% of patients. However, remission is maintained in only about 25% of people using H2 blockers.

Proton pump inhibitors limit acid secretion in the stomach. They allow rapid resolution of symptoms and healing of the esophagus in 80–90% of patients. The drug is also useful in managing stricture, one of the more serious complications of GERD. They are more effective than H2 blockers in inhibiting acid secretion.

There are several proton pump inhibitors available in the U.S. The FDA originally approved omeprazole (Prilosec) in 1989 and lansoprazole (Prevacid) in 1995, rabeprazole (Aciphex) in 1999, pantoprazole (Pantoloc/Protonix) in 2000, and esomeprazole (Nexium) in 2001. Zegerid is a combination of omeprazole and sodium bicarbonate. In 2009 dexlansoprazole (Kapidex) was introduced; in the U.S. it was renamed Dexilant in 2010.

Surgery: Surgical therapy may be indicated in the following circumstances:

- In patients who are not interested in long-term medical therapy
- In those whose symptoms cannot be controlled by medical management
- When symptoms recur
- If serious complications develop or recur

A thorough review of all aspects of the procedure with a gastroenterologist (a physician who specializes in these disorders) and a surgeon is advised.

HOW LONG IS IT NECESSARY TO TAKE MEDICATION TO CONTROL GERD?

GERD is a chronic disease, and most people require some form of regular, long-term therapy to keep their symptoms under effective control. This is similar to having high blood pressure or chronic headaches — clinical conditions that require regular medication. Even after symptoms are brought under control, the underlying disease remains present. It is possible that a person may need to take a medication for the rest of his or her life to manage GERD. This may change as new medications and procedures are developed.

ARE THERE CONCERNS ABOUT LONG-TERM USAGE OF MEDICATION TO TREAT GERD?

Any long-term use of medication should be under the direction and supervision of a physician. This includes both prescription and nonprescription drugs that are readily available over-the-counter. Side effects are rare; nonetheless, any drug can potentially have adverse effects.

The H2 blockers have been used since the mid-1970's to treat reflux disease. Since 1995, they have been available in lower, nonprescription doses to treat occasional heartburn. The drugs have been shown to be safe, although adverse effects can occur such as headache and diarrhea.

The proton pump inhibitors omeprazole and lansoprazole have been used regularly in patients with GERD for many years. (Omeprazole has been

available in the U.S. since 1989 and worldwide for several years beyond that.) Side effects from these agents are rare and principally include occasional diarrhea, headache, or stomach upset. These side effects are generally no more frequent than are seen with a placebo and usually occur when use of the drug course first begins. If none of these side effects have developed after several months or years of using a PPI, it is unlikely that any will develop later.

In patients with heart disease, who are taking clopidogrel bisulfate (Plavix), consumption of PPI's such as omeprazole and esomeprazole should be avoided. Recent studies have suggested that in some individuals long-term treatment with PPI's, especially in doses more than once a day, could result in osteoporosis, bone fracture, community acquired pneumonia, gastroenteritis, and hospital acquired colitis; talk to your doctor about this.

WHEN IS SURGERY AN ALTERNATIVE TO MEDICAL TREATMENT FOR GERD?

Medical therapy helps control symptoms as long as the medication is taken correctly. Surgery is an alternative that is generally applied when long-term medical treatment is either ineffective or undesirable, or when certain complications of GERD are present.

The most common surgical procedure for GERD is the Nissen fundoplication. It can be performed laparoscopically by an experienced surgeon. The goal of the surgery is to increase the pressure of the LES and prevent reflux. When performed by an experienced surgeon (at least 30–50 laparoscopic

operations) it may have a success rate approaching that of a well planned and carefully taken medical treatment with a proton pump inhibitor.

Side effects or complications associated with the surgery occur in 5–20% of patients. The most common is dysphagia, or difficulty swallowing. It is usually temporary and resolves after 3–6 months. Another problem that occurs in some patients is impairment of their ability to belch or vomit. This occurs because the surgical procedure forms a physical barrier to any type of back-flow of any gastric contents. A condition known as "gasbloat" syndrome can occur; abdominal distention and discomfort results from not being able to belch effectively.

Anti-reflux surgery can break down, similar to hernia repairs in other parts of the body. The recurrence rate is not well defined but may be in the range of 10–30% over 20 years. Factors that can contribute to this breakdown include heavy lifting, strenuous athletic activity, marked changes in weight, and violent vomiting. Any of these factors have the potential to intermittently increase pressure that can cause a weakening or disruption of the surgery.

In some individuals, even after surgery, reflux symptoms may persist, and the use of medication may need to continue or resume.

LIVING WITH GERD

It is important to recognize that GERD is a disease that should not be ignored or self-treated. Heartburn, the most frequent symptom, is so common that its significance may be underestimated. It is often casually dismissed and not associated with a disease, like GERD.

It is important to understand that GERD can have serious consequences for an individual. In addition to the physical complications that can arise, surveys report that uncomfortable or painful symptoms of acid reflux can intrude on all aspects of an individual's daily life — emotionally, socially, and professionally.

In studies that measure emotional well-being, people with unresolved GERD often report worse scores than those with other chronic diseases, like diabetes, high blood pressure, peptic ulcer, or angina. Yet, nearly half of acid reflux sufferers do not recognize it as a disease.

GERD is a disease. It is not caused by lifestyle decisions. It is usually accompanied by obvious symptoms but may occur in the absence of obvious symptoms. If ignored or not appropriately treated, it can lead to more serious complications.

Most people with GERD have a mild form of the disease that can be controlled through lifestyle changes and medication. If you suspect you may have GERD, the first step is to consult a doctor to obtain an accurate diagnosis. Recognize that GERD is generally a treatable disease. Then work in partnership with your doctor to initiate the best available treatment plan for you.



The International Foundation for Functional Gastrointestinal Disorders (IFFGD) is a nonprofit education and research organization. Our mission is to inform, assist, and support people affected by gastrointestinal disorders such as GERD.

IFFGD produces publications with up-to-date information about digestive health, GERD, and other gastrointestinal disorders. The Foundation is supported by contributions. For more information, please contact:

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support those
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The International Foundation for Functional Gastrointestinal Disorders is a nonprofit education, and research organization. We rely upon contributions in order to carry out our work on behalf of those concerned with the issues surrounding life with functional gastrointestinal or motility disorders. We invite you to become a member of IFFGD in support of our efforts. We welcome your comments or questions. For more information, please call or write to us using the numbers and addresses below.

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International Foundation for Functional Gastrointestinal Disorders

The International Foundation for Functional Gastrointestinal Disorders (IFFGD) is a nonprofit education and research organization dedicated to informing, assisting and supporting people affected by gastrointestinal or motility disorders.

The largest organization of its kind in the U.S., IFFGD has been working with patients, families, physicians, practitioners, researchers, employers, regulators and others to broaden understanding about gastrointestinal (GI) disorders.

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We work with an international group of experts from multiple disciplines who serve on our medical advisory board. We provide a link between clinical research and patient care. Working together, we help ensure that clinical advancements concerning GI disorders result in improvements in the quality of life of those affected.

IFFGD offers a community of support for people affected by functional GI and motility disorders. We are a resource for anyone seeking knowledge about these disorders.

We invite you to become a part of our worldwide community of support.

For People Affected by functional gastrointestinal and motility disorders, IFFGD offers a community of support. We. . .

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- Host a family of web sites that target the treatment and management of specific GI disorders
- Increase awareness of the medical and personal issues faced by those affected
- Fight for more research on methods to diagnose and treat these disorders
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Gastrointestinal Disorders Addressed by IFFGD Include:

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Dyspepsia

Esophageal Disorders and Gastroesophageal Reflux Disease (GERD) Gastroduodenal

Disorders

Gastroparesis

Hirschsprung's Disease

Incontinence

Irritable Bowel Syndrome (IBS)

Pelvic Floor Pain

Gastrointestinal (GI) Disorders Affect Men, Women, and Children.

Did You Know...

- Irritable bowel syndrome (IBS) is one of the most common problems doctors see. It affects 15-20% of the general population and is a leading cause of absenteeism from work or school.
- In 1997 IFFGD first designated April as IBS Awareness Month. It is now listed on the U.S. National Health Observances calendar.
- Up to 60% of women with a history of problems during childbirth report incidents of bowel incontinence.
- In 1999 IFFGD sponsored the landmark meeting and first **Consensus Conference on Treatment Options for** Fecal Incontinence.
- It is estimated that 21 million Americans suffer from bouts of heartburn at least twice per week. Frequent heartburn is the most common symptom of GERD.
- In 1999 IFFGD first designated one week in November as **GERD Awareness Week.** It is now listed on the U.S. National Health Observances calendar.

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 Topics: Bowel Urgency, Incontinence,
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 Syndrome (IBS), Pelvic Floor Disorders,
 Biofeedback
- 314 Changes in Bowel Control at Childbirth
 Brochure– By: William F. Norton, Publications
 Editor, IFFGD; Jeannette Tries, PhD, OTR
 Topics: Bowel urgency or incontinence,
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- 315 Report from IFFGD Research Award Winner: Chronic Pelvic Pain and the Overlap of Chronic Pelvic Pain Disorders

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- **316 Talking To Your Doctor About Incontinence**Fact Sheet– By: William F. Norton, Publications Editor, IFFGD *Topics: Incontinence, Diarrhea, Constipation*
- 317 Radiation Induced Injury to the Colon and Rectum

Fact Sheet– By: Thomas Puetz, MD Topics: Incontinence, Radiation Injury

318 Biofeedback, Incontinencia, y la Perspectiva del Paciente (Spanish version of Fact Sheet 311) Fact Sheet– By: Nancy J. Norton, President, IFFGD Topics: Bowel urgency or incontinence, Complementary & Alternative Treatments, Pelvic floor disorders

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UPPER GASTROINTESTINAL DISORDERS: DISORDERS OF THE ESOPHAGUS AND STOMACH

501 GERD Brochure

Brochure–By: Joel Richter, MD; Philip O. Katz, MD, FACP, FACG; J. Patrick Waring, MD; William F. Norton, Publications Editor, IFFGD Topics: Gastroesophageal Reflux Disease (GERD)

502 Gastroesophageal Reflux Disease

Fact Sheet–By: Cheri Smith, Medical Writer; Joel Richter, MD Topics: GERD/Heartburn, Tests for upper GI tract

503 Upper GI Endoscopy: What to Expect

Brochure–By: W. Grant Thompson, MD, FRCP(C) Topics: Dyspepsia/pain in upper abdomen or chest, Esophageal Disorders, GERD/Heartburn, Other Disorders/Symptoms, Tests for upper Gl tract

504 Heartburn: Nothing to do with the Heart

Brochure–By: W. Grant Thompson, MD, FRCP(C) *Topics: GERD/Heartburn*

505 Medical Treatment of GERD: The Proton Pump Inhibitors

Brochure–By: Philip O. Katz, MD, FACP, FACG Topics: GERD/Heartburn

506 Surgical Treatment of Gastroesophageal Reflux Disease

Brochure–By: Mary F. Otterson, MD, MS; Philip N. Redlich, MD, PhD *Topics: GERD/Heartburn*

507 Functional Dysphagia

Fact Sheet-By: Joel Richter, MD Topics: Esophageal Disorders, Swallowing Disorders

508 Globus: "It Brings a Lump to Your Throat"Fact Sheet–By: W. Grant Thompson, MD,
FRCP(C) Topics: Esophageal Disorders

509 Peptic Ulcer: A Twentieth Century Disease Brochure–By: W. Grant Thompson, MD, FRCP(C) *Topics: Inflammation, H. pylori Stomach Disorders*

510 Gastrointestinal Motility Disorders of the Esophagus and Stomach

Brochure–By: William E. Whitehead, PhD Topics: Dyspepsia/pain in upper abdomen or chest, Esophageal Disorders, Gastroparesis, Stomach Disorders

511 Belching: Is it Normal?

Brochure–By: W. Grant Thompson, MD, FRCP(C) *Topics: Gas/Bloating/Belching*

512 Questions and Answers About PPI Medications and GERD

Brochure–By: J. Patrick Waring, MD *Topics: GERD/Heartburn*

513 What Else Can We Attribute to GERD? Some Seldom Discussed Complications of Gastroesophageal Reflux

Fact Sheet–By: W. Grant Thompson, MD, FRCP(C) Topics: GERD/Heartburn, Sore Throat, Asthma, Dental Erosions

514 Dyspepsia – Upper Abdominal Pain

Fact Sheet-By: Nicholas J. Talley, MD, PhD Topics: Dyspepsia/pain in Upper Abdomen or Chest

515 Functional Dyspepsia and IBS: Incidence and Characteristics

Fact Sheet–By: John E. Kellow, MD; Douglas A. Drossman, MD Topics: Dyspepsia/Pain in Upper Abdomen or Chest, Irritable Bowel Syndrome (IBS)

516 Functional Heartburn

Fact Sheet–By: Joel Richter, MD *Topics: GERD/Heartburn*

517 Unexplained Chest Pain: It May Be In The Esophagus

Fact Sheet-By: Philip O. Katz, MD, FACP, FACG Topics: Esophageal Disorders, Pain Management

518 Esophageal Motility Disorders

Fact Sheet-By: Barry W. Jaffin, MD Topics: Esophageal Disorders

519 NSAIDs: Good for the Joints, Bad for the Gut? Fact Sheet–By: W. Grant Thompson, MD, FRCP(C) Topics: Other Disorders/Symptoms, Stomach Disorders

520 Antacids

Fact Sheet–By: W. Grant Thompson, MD, FRCP(C) Topics: Dyspepsia/Pain in Upper Abdomen or Chest, Gas/Bloating/Belching, GERD/Heartburn

521 Gallstones: What to do?

Fact Sheet–By: W. Grant Thompson, MD, FRCP(C) Topics: Other Disorders/Symptoms, Pain Management

523 GERD, Hiatal Hernia, and Surgery

Fact Sheet–By: J. Patrick Waring, MD Topics: GERD/Heartburn, Other Disorders/Symptoms

524 Confusing or Ambiguous Upper Gut Symptoms Fact Sheet–By: W. Grant Thompson, MD, FRCP(C) Topics: Gas/Bloating/Belching Vomiting, Hiatal Hernia, Chest Pain, Dyspepsia

525 Holiday Heartburn or GERD?

Fact Sheet–By: International Foundation for Functional Gastrointestinal Disorders (IFFGD) Topics: GERD/Heartburn

526 Nonulcer DyspepsiaFact Sheet–By: W. Grant Thompson, MD, FRCP(C) Topics: Dyspepsia/pain in upper abdomen or chest, Stomach Disorders

527 Barrett's Esophagus

Fact Sheet–By: W. Grant Thompson, MD, FRCP(C) Topics: Esophageal Disorders, GERD/Heartburn

528 H2 Blockers – Indications, Effectiveness and Long-term Use

Fact Sheet–By: W. Grant Thompson, MD, FRCP(C) Topics: GERD/Heartburn

529 Gastroesophageal Reflux Disease- From **Diagnosis to Treatment**

Fact Sheet-By: Mark H. DeLegge, MD Topics: GERD/Heartburn, Tests for Upper GI Tract

531 Long-term Use of Proton Pump Inhibitor Medication and GERD

Fact Sheet–By: J. Patrick Waring, MD Topics: GERD/Heartburn

532 Unusual Symptoms and GERD

Fact Sheet-By: J. Patrick Waring, MD Topics: GERD/Heartburn, Dental Erosion, Chronic Sinusitis, Asthma

533 Achalasia – When Swallowing Becomes a Problem

> Fact Sheet–By: Joel Richter, MD Topics: Esophageal Disorders, Swallowing Disorders

534 Gastroparesis

Fact Sheet–By: Frank Friedenberg, MD; Henry P. Parkman, MD Topics: Dyspepsia/pain in upper abdomen or chest, Gastroparesis, Nausea or vomiting, Stomach Disorders

535 Talking to Your Doctor About GERD

Fact Sheet–By: International Foundation for Functional Gastrointestinal Disorders (IFFGD) Topics: GERD/Heartburn, Working with your healthcare provider

536 Historical Perspective on the Long-term Safety of Proton Pump Inhibitors (PPIs) for Gastroesophageal Reflux Disease (GERD) Fact Sheet–By: J. Patrick Waring, MD Topics: GERD/Heartburn

537 Dietary and Nutritional Recommendations for **Patients with Gastroparesis**

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539 Dietary and Nutritional Recommendations for Patients with Dumping Syndrome (Rapid **Gastric Emptying)**

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540 Electrical Stimulation and Pacing for Digestive Disorders in Adults and Children: a Status

Fact Sheet–By: Paul E. Hyman, MD; Richard W. McCallum, MD Topics: Gastroparesis, Gastric motor function

541 Cyclic Vomiting Syndrome in AdultsFact Sheet–By: Farid Namin, MD; Richard W. McCallum, MD; Kathleen Adams; Henry P. Parkman, MD Topics: Nausea or vomiting, Other Disorders/Symptoms, Stomach Disorders

543 Distal Esophageal Spasm (DES) – Formerly Known as Diffuse Esophageal Spasm Fact Sheet-By: R. Matthew Gideon, MD; Philip O. Katz, MD, FACP, FACG Topics: Dyspepsia/pain in upper abdomen or chest, Esophageal Disorders

544 Report from IFFGD Research Award Winner: Adult Neurogenic Dysphagia: Disorders and Conditions that Disrupt Swallowing Fact Sheet–By: Shaheen Hamdy, MB, ChB, PhD Topics: Dyspepsia/pain in upper abdomen or chest, Esophageal Disorders, Swallowing Disorders

545 Treating Functional Dyspepsia: What are Your **Options?**

Fact Sheet–By: Brian E. Lacy, PhD, MD Topics: Dyspepsia, H. pylori

546 Another Complication of Reflux: Laryngeal Pharyngeal Reflux (LPR) Fact Sheet–By: J. Patrick Waring, MD Topics: Reflux, GERD, LPR

547 How Man's Commonest Infection Kept its Secret: The H. pylori story –any lessons for the functional gastrointestinal disorders? Fact Sheet–By: W. Grant Thompson, MD FRCP(C) Topics: H. plyori, Peptic Ulcer

548 Barrett's Esophagus and Diet Fact Sheet–By: J. Patrick Waring, MD Topics: Barrett's Esophagus, GERD, Diet, Lower Esophageal Sphincter, Carob

549 Do I Need Another Endoscopy?Fact Sheet–By: J. Patrick Waring, MD *Topics: Endoscopy, GERD, Barrett's Esophagus*

550 Do Proton Pump Inhibitors (PPIs) Increase the Risk of Hip Fracture? Fact Sheet–By: J. Patrick Waring, MD Topics: PPI Safety, Osteoporosis

552 Tratamiento la Dispepsia Functional: Cuales Son Sus Opciones? (Spanish version of 545) Fact Sheet-By: Brian E. Lacy, PhD, MD Topics: Dyspepsia, H. pylori

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801 Chronic Intestinal Pseudo-obstruction Brochure-By: Paul E. Hyman, MD; Carlo

Di Lorenzo, MD Topics: Colonic inertia/Pseudoobstruction, Constipation/difficult to pass stools

802 Gastroesophageal Reflux in Infants and Children

Brochure-By: Carlo Di Lorenzo, MD; Mark S. Glassman, MD; Paul E. Hyman, MD Topics: GER/GERD, Tests for upper GI tract

803 Hirschsprung's Disease

Brochure-By: Jacob C. Langer, MD; International Foundation for Functional Gastrointestinal Disorders (IFFGD) Topics: Anal/Rectal Disorders, Constipation/difficult to pass stools, Hirschsprung's Disease

804 Chronic Intestinal Pseudo-obstruction in Children: An Overview

Fact Sheet–By: Paul E. Hyman, MD Topics: Colonic inertia/Pseudo-obstruction, Constipation/difficult to pass stools

807 Dyspepsia in Children

Fact Sheet–By: Vera Loening-Baucke, MD Topics: Dyspepsia/Pain in Upper Abdomen or Chest

808 Do we need Colonic Manometry to Diagnose Functional Fecal Retention?

Fact Sheet-By: Jose Cocjin, MD Topics: Constipation/Difficult to Pass Stools, Tests for lower GI tract

809 Bellyaches in Children

Fact Sheet–By: Paul E. Hyman, MD Topics: Constipation/Difficult to Pass Stools, Dyspepsia/pain in Upper Abdomen or Chest, Irritable Bowel Syndrome (IBS), Lower Abdominal/Pelvic Pain

810 Childhood Defecation Disorders: Constipation and Soiling

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811 Antroduodenal Manometry: Questions and

Fact Sheet–By: Carlo Di Lorenzo, MD Topics: Stomach Disorders, Tests for upper GI tract

812 Colon Manometry: Questions and Answers

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813 Lifestyle Solutions for the "Happy Spitter" to

Help Reduce Baby's Spitting Up Fact Sheet–By: Roland Tuley; Reviewed by: Mark S. Glassman, MD Topics: GER/GERD

814 Avoid Overmedicalizing by Recognizing Aerophagia Before the Big'Work-up Fact Sheet-By: Paul E. Hyman, MD Topics: Gas/Bloating/Belching

815 Increasing Our Understanding: New Diagnostic **Criteria for Pediatric Functional Gastrointestinal Disorders**

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Fact Sheet–By: Jacob C. Langer, MD Topics:
Anal/Rectal Disorders, Colonic inertia/Pseudoobstruction, Fecal soiling/incontinence, Hirschsprung's Disease, Biofeedback

817 Cyclic Vomiting Syndrome

Fact Sheet–By: Robert M. Issenman, MD Topics: Nausea or vomiting, Other Disorders/Symptoms, Other Disorders/Symptoms, Stomach Disorders, Stomach Disorder's

822 Rumination Syndrome in Children and Adolescents

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825 The Global Approach to Pediatric Functional Gastrointestinal Disorders

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826 Infant Regurgitation

Fact Sheet-By: Suzanne Nelson, MD, MPH Topics: GER/GERD, Other Disorders/Symptoms

827 Functional Recurrent Abdominal Pain in Children and Adolescents

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828 Know Thy Laxatives: A Parent's Guide to the Successful Management of Chronic Functional Constipation in Infants and Children

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830 Defecation Disorders after Surgery for Hirschsprung's Disease

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831 Report from IFFGD Research Award Winner: Biopsychosocial Perspectives on Assessment and Treatment

Fact Sheet -By: Caroline Elder Danda, PhD Topics: Constipation/Difficult to Pass Stools, Fecal soiling/incontinence, Lower Abdominal/Pelvic Pain, Pain Management

833 Constipation in Young Children

Fact Sheet-By: Paul E. Hyman, MD Topics: Constipation/Difficult to Pass Stools, Other Disorders/Symptoms

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835 Report from IFFGD Research Award Winner: Research into Treatment - Resistant Constipation in Children

Fact Sheet–By: Bridgett R. Southwell, PhD Topics: Constipation/difficult to pass stools

836 Report from IFFGD Research Award Winner: Symptoms Arising from Non-Acid Reflux in Children

Fact Sheet–By: Rachel Rosen, MD, MPH Topics: GER/GERD, Tests for upper GI tract

837 Report from IFFGD Research Award Winner: Home Based Guided Imagery to Treat Pediatric Functional Abdominal Pain

Fact Sheet-By: Miranda A. L. van Tilburg Topics: Dyspepsia, Pain in Upper Abdomen or Chest, Functional, Lower Abdominal Pain, Pelvic Pain, Pain, Pain Management

838 Helping Children And Adolescents Cope with Abdominal Pain

Fact Sheet–By: Lynn Walker, PhD Topics: Abdominal Pain, Pain Management

839 Hirschsprung's Disease in Children and Adults Fact Sheet–By: Samuel Nurko, MD, MPH Topics: Hirschsprung's Disease, Constipation, Obstruction, Incontinence, Enterocolitis

840 Bowel Problems in Adults After Surgical Treatment for Childhood Hirschsprung's Disease

Fact Sheet–By: Kasaya Tantiphlachiva, MD; Satish S.C. Rao, MD, PhD, FRCP (LON) *Topics: Hirschsprung's Disease, Constipation, Dyssynergia, Biofeedback*

842 Soiling Solutions®: An Internet and Manual Based Approach to Treating Encopresis
Fact Sheet–By: Robert W. Collins, PhD, PC;
Editorial Comment By: Paul E. Hyman, MD
Topics: Encopresis, Relaxation Training

843 Chronic Intestinal Pseudo-Obstruction Fact Sheet–By: William. F. Norton, Reviewed by Carlo Di Lorenzo, MD Topics: CIP, Symptoms, Diagnosis, Treatment, Nutrition

844 Functiona Abdominal Pain in Children and Adolescents

Fact Sheet-By: Migeul Saps, MD Topics: Functional Abdominal Pain, Symptoms, Diagnosis, Treatment

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