INFLAMMATORY BOWEL DISEASE

WebMD®

TAKE CONTROL

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BY THE NUMBERS:
STATS & FACTS
PAGE 3

CARING FOR YOU:
HOW TO MANAGE
YOUR MENTAL HEALTH
PAGE 7

FIRST PERSON:
ONE WOMAN’S LIFE-CHANGING
EXPERIENCE WITH BIOLOGICS
PAGE 8

Access this content online: use your mobile phone camera to activate the QR code.
**THE LINK BETWEEN GUT BACTERIA AND P-GP**

New research may explain the role that gut bacteria play in inflammatory bowel disease. Researchers found that people with a healthy balance of gut bacteria also have healthy levels of a protein called P-gp. But people who have inflammatory bowel diseases have lower levels of this important protein. That matters because P-gp cuts inflammation in the gut and protects the walls of the intestines. Without enough P-gp, gut inflammation can get out of control. Understanding the connection between gut bacteria and this important protein can lead to new treatments for IBD or dietary recommendations to improve the makeup of the gut bacteria.

*Source: Microbiome*

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**COULD A NEW PILL PREVENT INFLAMMATION?**

Researchers at Harvard’s Brigham and Women’s Hospital have souped up a healthy microbe in the hope that it will treat inflammatory bowel disease. They took the same type of yeast that’s in beer and genetically reengineered it to detect inflammation in the gut. Aptly named a “Yeast Bot,” the idea is that when the pill reaches the gut, it will find inflammation, and emit an anti-inflammatory substance to stop the process and repair the damage. But before you can get a prescription for this newfangled drug, the researchers must put it through clinical trials. Stay tuned.

*Source: Nature Medicine*

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**GET STRESS IN CHECK**

Does stress trigger your Crohn’s disease flares? Researchers may have discovered why. In a small laboratory study, they found that hormones the body releases when under stress weakened the part of the immune system whose job is to protect the gut from harmful bacteria. This can make the gut more prone to infection with Enterobacteriaceae, a group of bacteria that include E. coli and has links to Crohn’s flares. If unchecked stress is causing you frequent flares, talk to your doctor about how to manage it. Exercise, proper sleep, meditation, and “me” time may help.

*Source: Nature Communications*

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**RECENT HEADLINES**

**KEEP UP WITH THE LATEST RESEARCH**

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**STATS & FACTS**

By Rachel Reiff Ehr

Reviewed by Neha Pathak, MD, WebMD Lead Medical Editor

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**UP TO 34.7%**

Amount of people with active IBD who also deal with depression.

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**5% TO 7%**

Risk of getting IBD when only one of your parents has it.

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**1 in 1,299**

Estimated number of U.S. children who have IBD.

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**1 in 209**

Estimated number of U.S. adults who have IBD.

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**3 out of 4**

Number of people with Crohn’s who eventually need surgery for their disease.

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**5% TO 20%**

Amount of people with IBD who have a first-degree relative with IBD.

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**6.8 MILLION**

Estimated number of IBD cases worldwide.

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**2X**

Smokers’ risk of developing Crohn’s disease compared with nonsmokers’ risk.

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**2X**

Amount you increase your risk of Crohn’s disease if you smoke.

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**SOURCE:** The Lancet

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**SOURCE:** Crohn’s and Colitis Foundation of America

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**SOURCE:** Microbiome

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**SOURCE:** Nature Medicine

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**SOURCE:** Nature Communications

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**SOURCE:** Nature Communications
YOU WEREN’T MADE FOR MODERATE TO SEVERE ULCERATIVE COLITIS OR CROHN’S DISEASE.

BUT ENTYVIO IS.

ENTYVIO has helped many people achieve long-term relief and remission. It may help you too. At your next doctor visit, make sure to:

• Bring up ALL symptoms that are bothering you (don’t worry, they’ve heard it all!)
• Ask how ENTYVIO works
• Ask if ENTYVIO is right for you

Important Safety Information for ENTYVIO® (vedolizumab)

• Do not receive ENTYVIO if you have had an allergic reaction to ENTYVIO or any of its ingredients.
• ENTYVIO may cause serious side effects, including:
  ◦ Infusion-related and serious allergic reactions can happen while you are receiving ENTYVIO or several hours after treatment. You may need treatment if you have an allergic reaction. Tell your healthcare provider or get immediate medical help if you get any of these symptoms during or after an infusion of ENTYVIO: rash, itching, swelling of your lips, tongue, throat or face, shortness of breath or trouble breathing, wheezing, dizziness, feeling hot, or palpitations (feel like your heart is racing).
  ◦ ENTYVIO may increase your risk of getting a serious infection. Before receiving ENTYVIO, tell your healthcare provider if you have or think you may have an infection. Tell your healthcare provider right away if you have any of the following symptoms: confusion or problems thinking, loss of balance, change in the way you walk or talk, decreased strength or weakness on one side of the body, blurred vision, or loss of vision.
  ◦ Liver problems can happen in people who receive ENTYVIO. Tell your healthcare provider right away if you have any of the following symptoms: confusion or problems thinking, loss of balance, change in the way you walk or talk, decreased strength or weakness on one side of the body, blurred vision, or loss of vision.
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  ◦ Liver problems can happen in people who receive ENTYVIO. Tell your healthcare provider right away if you have any of the following symptoms: confusion or problems thinking, loss of balance, change in the way you walk or talk, decreased strength or weakness on one side of the body, blurred vision, or loss of vision.

• The most common side effects of ENTYVIO include common cold, headache, joint pain, nausea, fever, infections of the nose and throat, tiredness, cough, bronchitis, flu, back pain, rash, itching, sinus infection, throat pain, and pain in extremities. These are not all the possible side effects of ENTYVIO.

Please see the Important Facts for ENTYVIO on the following page and talk with your healthcare provider.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.

Uses of ENTYVIO® (vedolizumab)

ENTYVIO is a prescription medicine used in adults for the treatment of:
• moderately to severely active ulcerative colitis
• moderately to severely active Crohn’s disease

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• have tuberculous (TB) or have been in close contact with someone with TB.
• have recently received or are scheduled to receive a vaccine. Talk to your healthcare provider about bringing your vaccines up-to-date before starting treatment with ENTYVIO.
• are pregnant or plan to become pregnant. It is not known if ENTYVIO will harm your unborn baby. Tell your healthcare provider right away if you become pregnant while receiving ENTYVIO.

• Pregnancy Registry: There is a pregnancy registry for women who use ENTYVIO during pregnancy. The purpose of this registry is to collect information about the health of you and your baby. Talk with your healthcare provider about how you can take part in this registry. You may contact the registry at 1-877-825-3327 to enroll.

• are breastfeeding or plan to breastfeed. ENTYVIO passes into your breast milk. Talk to your healthcare provider about the best way to feed your baby if you take ENTYVIO.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins and herbal supplements. Especially tell your healthcare provider if you take or have recently taken Tysabri (natalizumab), a Tumor Necrosis Factor (TNF) blocker medicine, a medicine that weakens your immune system (immunosuppressant), or corticosteroid medicine.

How will I receive ENTYVIO?

• ENTYVIO is given through a needle placed in a vein (intravenous infusion) in your arm.
• ENTYVIO is given to you over a period of about 30 minutes.

Your healthcare provider will monitor you during and after the ENTYVIO infusion for side effects to see if you have a reaction to the treatment.

What are the possible side effects of ENTYVIO?

ETYVIO may cause serious side effects, see “The most important information I should know about ENTYVIO”. The most common side effects of ENTYVIO include: common cold, headache, joint pain, nausea, fever, infections of the nose and throat, tiredness, cough, bronchitis, flu, back pain, rash, itching, sinus infection, throat pain, and pain in extremities. These are not all the possible side effects of ENTYVIO. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about ENTYVIO

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. You can ask your pharmacist or healthcare provider for information about ENTYVIO that is written for health professionals.

Manufactured by: Takeda Pharmaceuticals U.S.A., Inc. Lexington, MA 02421

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For more information, go to www.ENTYVIO.com or call 1-877-TAKEDA-7 (1-877-825-3237).

Before receiving ENTYVIO, tell your healthcare provider about all of your medical conditions, including if you:

• have an infection, think you may have an infection or have infections that keep coming back (see “What is the most important information I should know about ENTYVIO?”).
• have liver problems.

Who should not receive ENTYVIO?

Do not receive ENTYVIO if you have had an allergic reaction to ENTYVIO or any of the ingredients in ENTYVIO. See the end of this Medication Guide for a complete list of ingredients in ENTYVIO.

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• have an infection, think you may have an infection or have infections that keep coming back (see “What is the most important information I should know about ENTYVIO?”).
• have liver problems.

What is the most important information I should know about ENTYVIO?

ENTYVIO may cause serious side effects, including:

• Infusion-related and serious allergic reactions. These reactions can happen while you are receiving ENTYVIO or several years after you stop taking ENTYVIO. You may need treatment if you have an allergic reaction. Tell your healthcare provider or get medical help right away if you get any of these symptoms during or after the ENTYVIO infusion: rash, itching, swelling of your lips, tongue, throat or face, shortness of breath or trouble breathing, wheezing, dizziness, feeling hot, or palpitations (feel like your heart is racing).

• Infections. ENTYVIO may increase your risk of getting a serious infection. Before receiving ENTYVIO and during treatment with ENTYVIO, tell your healthcare provider if you think you have an infection or have symptoms of an infection such as fever, chills, muscle aches, cough, shortness of breath, runny nose, sore throat, red or painful skin or sores on your body, tiredness, or pain during urination.

• Progressive Multifocal Leukoencephalopathy (PML). People with weakened immune systems can get progressive multifocal leukoencephalopathy (PML) (a rare, serious brain infection caused by a virus). Although unlikely while receiving ENTYVIO, a risk of PML cannot be ruled out. PML can result in death or severe disability. There is no known treatment, prevention, or cure for PML. Tell your healthcare provider right away if you have any of the following symptoms: confusion, problems thinking, loss of balance, change in the way you walk or talk, decreased strength or weakness on one side of the body, blurred vision, or loss of vision.

• Liver Problems. Liver problems can happen in people who receive ENTYVIO. Tell your healthcare provider right away if you have any of the following symptoms: tiredness, loss of appetite, pain on the right side of your stomach (abdomen), dark urine, or yellowing of the skin and eyes (jaundice). See “What are the possible side effects of ENTYVIO?” for more information about side effects.

When you have inflammatory bowel disease (IBD), it’s natural to struggle with mental health and tough emotions. Fatigue, pain, and frequent trips to the bathroom can get in the way of doing what you love. But, there’s more to the link between IBD and mental health than this, according to Charles Bernstein, MD, a gastroenterologist and director of the IBD Clinical and Research Centre at the University of Manitoba in Winnipeg, Canada. “People with IBD are more likely to have mood disorders or depression or generalized anxiety disorders for years prior to the IBD,” Bernstein says. In addition, the symptoms of IBD and daily challenges of having any chronic disease add stress to one’s life. You also may take steroids to help with the inflammation that comes with IBD. “Steroids are one medication we know can have an adverse affect on emotional state,” Bernstein says.

MANAGE YOUR MENTAL HEALTH

Bernstein says it’s not clear that stress actually makes your gut inflamed. But he has noticed that people feeling under stress more often do have symptoms flare up. Mental health challenges may make it harder for you to stick to your medications, too. He says that your IBD doctor should ask you not just about IBD symptoms, but about how you are feeling in other ways, too. Whether your doctor asks you or not, let them know if you are having trouble, even if you don’t think it’s related to your IBD. Ask if they have ways to help or can refer you to someone who can.

Online resources might help you, too. In fact, Bernstein is studying whether an online program that teaches how to manage stress can help in dealing with IBD symptoms.

TRY SOME ALTERNATIVES

“There are many things people can do,” Bernstein says. “In general, mindfulness techniques, yoga, meditation, physical exercise—these are all things I would encourage.”

You might not feel up to boot camp or some other intensive exercise regimen and that’s OK. Try long walks, cycling, or tai chi—anything that works for you to relieve stress and get active, Bernstein says. Think about what your stressors are and see if there are some that may be work or financial or may be related to other health problems,” he adds.

Bernstein says he has at times referred his IBD patients to a social worker. To manage your IBD, it’s important to take an open and holistic approach. Find a doctor who is willing to consider everything that’s going on in your life. The first step for you, Bernstein says, is having some awareness that your ‘mental health may affect how you feel from a GI perspective.’
I was in my third year of college when I was diagnosed with ulcerative colitis, a disease I’d never even heard of before. Adjusting to life with chronic illness was a huge learning process at 21 years old. Most of my friends didn’t have to think about the same things I did: what kinds of treatments I needed, what my disease meant for my career, or what kinds of activities I’d have to alter or give up.

For example, food was a big part of my life, both personally and socially. But going out to eat with friends had to experiment with what works for me. For example, when I’m stressed, I tend to skip meals and I don’t sleep very well, and the combination of those things—plus the inflammation stress can cause—tends to trigger symptoms. I also watch what I eat carefully. I’ve managed my symptoms myself. I love leafy greens, but they don’t necessarily love me. So I either have to steam or cook them a little bit to help the digestive process go a little easier. I’ve eliminated red meat from my diet, and I try to not process gluten or artificial sugar.

Through it all, I’ve learned a lot about myself and my body’s limits. I took a while to figure it all out, but once I did, I was able to reach a sense of ease and calm. I’ve learned to accept that there are a lot of things in life we can’t control, and having chronic illness is one of them. But understanding my body and the disease better, I’m able to live a more integrated life.

Everyone deals with stress, but when you have a chronic condition like IBD, you may feel it more often—and in more ways than one. Stress can often bring on flares of your disease, causing even more stress. Managing those outbursts requires breaking the stress-flare cycle.

“When there is a large amount of stress we can see an increase in inflammatory type symptoms,” says J. Casey Chapman, MD, chief medical officer at GI Alliance in Baton Rouge, LA.

Stress has a physical effect on your body. It causes muscle tension, rapid breathing, increased heart rate, a rise in cortisol (the stress hormone), and higher blood pressure. It also has an impact on your brain-gut connection.

Here’s how it works: Stress can bring on changes in your gut bacteria, which in turn can shift mood. So your gut’s nerves and bacteria strongly influence your brain and vice versa. “While it is not clear that stress directly causes inflammation, we do know that stress can indirectly increase the likelihood (you’ll have) symptoms that can mimic inflammation,” Chapman says.

Some studies show stress may even mess with your body’s ability to shut down its own immune response (inflammation) after it gets started.

IMPACT OF STRESS ON DISEASE MANAGEMENT
Chapman says that when it comes to living well with IBD, the effect of stress on your mind is just as important as its effect on your body. “Stress can affect your motivation to seek self-care, maintain medication adherence, [practice] stress avoidance, and pursue exercise,” he says.

In other words, even if you’re not directly flaring during stressful times, you may not have the mental bandwidth to care for your condition the way you should, which can lead to an increase in your symptoms. It’s also common for people with IBD to have anxiety and depression, which can increase disease activity, too. Chapman says it’s important to ask your doctor about screening for these mental health disorders to be sure you’re not overlooking a key part of your disease management.

“Without correct diagnosis and treatment, things may be labeled as normal stress when it may actually be something very impactful to [your] outcome,” he says.

HOW STRESS CAN AFFECT YOUR IBD

WHY SOOTHING YOUR STRESS CAN HELP YOUR SYMPTOMS

By Rachel Reiff Ellis
Reviewed by Melinda Ratini, DO, WebMD Medical Reviewer

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“Without correct diagnosis and treatment, things may be labeled as normal stress when it may actually be something very impactful to [your] outcome,” he says.
The inflammation caused by IBD comes with plenty of gastrointestinal side effects. But at least 1 in 4 people with IBD have skin conditions and symptoms in other parts of the body. Doctors sometimes call these “extraintestinal manifestations” of IBD.

**ARTHRITIS**

“The predominant one is joint pain,” says Charles Bernstein, MD, gastroenterologist at the University of Manitoba in Canada. “About a quarter of people with IBD also have redness and other signs of arthritis.”

People with IBD may have arthritis symptoms at a young age in large joints of the arms and legs. They also may have symptoms in various parts of the spine, although this is less common. Often, the joint pain and other arthritis symptoms may come up before, after, or around the same time as a diagnosis of IBD. While it’s good to know these can happen, he says he doesn’t want folks with IBD to worry about every minor discomfort. “Aches and pains can be normal,” he says, and all people feel them. “It’s good to be aware of it, but just because you have red eyes one day doesn’t mean you’ve got iritis (inflammation of the eye’s iris).” He tries not to make his patients too vigilant about short-lived symptoms.

**SKIN CONDITIONS**

About 1 in 5 people with IBD have skin conditions, either related to the IBD or its treatment. Some common ones include erythema nodosum, in which tender red bumps appear on the shins, and pyoderma gangrenosum, in which lesions or ulcers form where there’s an injury. Bernstein says that the red bumps typically show up when IBD is most active. The lesions of pyoderma gangrenosum can arise separately from IBD flares. They’re often related to ostomy surgery, which allows waste to leave your body through a pouch, or other trauma. IBD also can come with painful tears around the anus and small ulcers called canker sores in your mouth.

**EYES, BONES, AND LIVER**

Approximately 1 in 10 people with IBD have problems with their eyes. These may involve redness and pain in different parts of the eye. While it can change your vision, these eye problems in IBD are treatable with eye drops or other medicines.

Up to 60% of people with IBD have thin and weakened bones, too. As a result, Bernstein says they are more at risk for osteoporosis. This can happen from using steroids for a long time or from the inflammation itself. While relatively rare, about 5% of people with IBD have serious liver disease.

**WHICH COMES FIRST?**

Bernstein says that these other conditions may come up before, after, or around the same time as a diagnosis of IBD. While it’s good to know these can happen, he says he doesn’t want folks with IBD to worry about every minor discomfort. “Aches and pains can be normal,” he says, and all people feel them. “It’s good to be aware of it, but just because you have red eyes one day doesn’t mean you’ve got iritis (inflammation of the eye’s iris).” He tries not to make his patients too vigilant about short-lived symptoms.

**OPTIONS TO TREAT CROHN’S DISEASE**

**TALK TO YOUR DOCTOR ABOUT WHICH ONE IS BEST FOR YOU**

There’s no cure for Crohn’s, but there are ways to control it. The goal is to get your Crohn’s disease into remission and keep it there.

You and your doctor will have many medicines to choose from. They fall into different categories based on how they work to control the disease and its symptoms. Najwa El-Nachef, MD, a gastroenterologist at the University of California at San Francisco, says that the best place for you and your doctor to start will depend on how severe your disease and inflammation is.

**AMINOSALICYLATES**

Aminosalicylates, which lower inflammation, can be an early step in treating Crohn’s disease. There are several to choose from. They can be applied to the surface of your skin or taken by mouth. They work well for Crohn’s compared with other types of inflammatory bowel disease. Doctors used them more in the past.

**BIOLOGICS**

Biologics, or monoclonal antibodies, target the immune system and can be an early step in treating Crohn’s disease into remission and keep it there. You and your doctor will have many medicines to choose from. They fall into different categories based on how they work to control the disease and its symptoms. Najwa El-Nachef, MD, a gastroenterologist at the University of California at San Francisco, says that the best place for you and your doctor to start will depend on how severe your disease and inflammation is.

**STEROIDS**

Corticosteroids can fight inflammation in your gut. But steroids aren’t a long-term solution. That’s both because they aren’t the best way to keep Crohn’s in remission and they have side effects if taken too long. “Steroids help with flares,” El-Nachef says.

“Steroids help with flares,” El-Nachef says. "They're not considered good long-term agents."

**IMMUNE SUPPRESSORS**

You might also hear these drugs, which are taken by mouth, called “immune modulators.” There are several of them, all of which work to lower the activity in your immune system that’s causing the problems in your gut. But El-Nachef says, these treatments also are falling out of favor for treating Crohn’s as safer and more effective treatment options have grown.

“There’s an idea out there that a pill is safer than an infusion or injection, but that’s not always the case,” El-Nachef says.

**DIET AND SURGERY**

In addition to biologics or other medicines, your doctor may suggest changes to your diet or letting your bowel rest. Sometimes people with Crohn’s also need surgery, but this is becoming less common thanks to treatment advances.

“Biologic medications have changed the whole landscape of what it means to have Crohn’s,” El-Nachef says. “People have less surgery now and, if they do, they are less likely to have another surgery [later].”
Want to learn more about Crohn’s disease or ulcerative colitis?

Check out our free on-demand MyIBDLearning video library!

The Crohn’s & Colitis Foundation hosts MyIBD Learning education programs both in person and virtually.

Each program is created for patients and caregivers of all ages—whether newly diagnosed or living with these diseases for a long time.

Missed the chance to see a MyIBD Learning program live? Our free video library includes on-demand recordings of our webinars and in-person events.

Hear the latest information on hot topics in IBD from leading healthcare professionals and fellow Crohn’s and colitis patients.

Learn about diet and nutrition, new and emerging treatments, navigating insurance, and more.

Start watching at: crohnscolitisfoundation.org/myibdlearning/videos