



CHRONIC FUNCTIONAL ABDOMINAL PAIN

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People with functional gastrointestinal (GI) disorders can have a variety of symptoms that range from painless diarrhea or constipation, to pain associated with diarrhea and/or constipation (usually called irritable bowel syndrome). There is another, less common condition of abdominal pain that is chronic or frequently recurring; it is not associated with changes in bowel pattern. This condition is called chronic functional abdominal pain (CFAP).

CFAP is a functional GI disorder. There are no abnormal x-rays or laboratory findings to explain the pain. It occurs because of altered sensitivity to nerve impulses in the gut and brain, and it is not associated with altered motility in the intestines.

For people with CFAP, the pain can be so all-consuming that it becomes the main focus of their lives. Not only does it impact on quality of life, but it has a major economic impact as well. The US Householders Survey of Functional GI Disorders published in 1993 found that people with CFAP missed an average of 12 days of work annually due to illness compared to 4 missed days for people without gastrointestinal symptoms. Also, the number of doctor visits in a year averaged 11 for those with CFAP compared with only 2 for those without CFAP.

PATHOPHYSIOLOGY -- UNDERSTANDING WHY PEOPLE GET CFAP

To understand the basis for chronic functional abdominal pain it is helpful to understand how the body experiences pain. Nerve impulses travel from the abdomen to the spinal cord, and then to various areas of the brain. There are many different areas of the brain involved in the sensation of abdominal pain. One of these connected areas is concerned with the location and intensity of the pain, while another connected area is concerned with memories or emotions. Because of this interconnection, the perception of pain can be affected by emotions or life experiences.

While symptoms of CFAP can appear without apparent cause, they can also occur after traumatic life events like the death of a loved one, divorce, or a history of sexual or physical abuse. During times of added stress, symptoms can worsen.

Repeated injury can cause abdominal nerve receptors to become overly sensitive. For instance, if someone has had multiple abdominal surgeries or an infection, a later painful occurrence may be experienced as more painful than previously. Even normal abdominal activity may be experienced as being painful. It is as if the volume has been turned up on a stereo receiver. This condition is called visceral hypersensitivity (i.e., increased sensitivity of the intestines). Understanding how the

brain can modify the pain experience (for better or worse) is essential to beginning any treatment. When someone is feeling anxious or depressed, or focuses attention on the pain, it is experienced as more severe. The use of relaxation training or other techniques can divert attention away from the pain.

If a person has previously had a bad encounter with pain, the fear of having the pain again can actually make the pain worse the next time. If a person takes steps to feel in control of the pain, symptoms will improve. In addition, the amount of support a person receives from family, friends, and other sources can affect how a person responds to pain.

TREATMENT STRATEGIES

Given what we currently know about CFAP the aim of treatment is to help you gain control over your symptoms and improve daily function, rather than totally eliminate symptoms, which usually is not possible. One way to start is to keep a diary to record symptom flare-ups, and to identify possible triggers (emotional and situational). This kind of information may be used by you or your physician to help develop better strategies to control the symptoms (IFFGD created a Personal Daily Diary for use by people with functional GI disorders).

The brain not only affects how you sense pain, it is also able to block pain. Think about the basketball player who sprains his ankle during a game and continues to play without awareness of pain. Then, when the game ends, he collapses to the floor, unable to walk. He was able to block the pain by focusing his attention on the game.

When nerve impulses travel up from the abdomen to the spinal cord, some of them go through a kind of "gate" that is controlled by nerve impulses coming down from the brain. These impulses from the brain can block or inhibit pain signals going from the abdomen to the brain by "closing" the gate. Alternatively, they can increase signals to the brain by opening the gate.

Because the brain has such a strong influence on the sensation of pain, psychological treatments can relieve symptoms of CFAP by sending signals that close the gate. Different techniques include relaxation, imagery, hypnosis, and cognitivebehavioral therapy.

Medications may also be used in the treatment of CFAP. For continuous or severe abdominal pain, your doctor might prescribe an antidepressant. It is important to understand that these medications are not just used to treat patients who have depression but also act as pain relievers (central analgesics) for treatment of CFAP and many other painful conditions.

Antidepressant medications can help stimulate the brain to increase the signals which block pain transmission from the abdomen to the brain. It may take several weeks before a difference is noticed. Some people will experience side effects from antidepressant medications. Usually the side



effects will go away after a few days so it is important to stay with the medication until treatment benefit is obtained. The tricyclic antidepressants (TCAs) can cause dry mouth and drowsiness. Another group of antidepressants is called selective serotonin reuptake inhibitors (SSRIs). These can cause side effects like agitation, sleep disturbance, vivid dreams, and diarrhea. It is important to realize that narcotics are not indicated -- and can even be harmful and need to be avoided -- in treating chronic abdominal pain. Over long periods of time, narcotics may produce more pain causing a condition called "Narcotic Bowel Syndrome."

THE PATIENT-DOCTOR PARTNERSHIP

It is important that you work with a physician who demonstrates empathy toward you and an understanding of the symptoms of CFAP. It is a disorder where treatment requires the participation of both you and your physician.

Treatments for CFAP are most effective when the patient and the doctor work as a team, each having a role. Your doctor has the responsibility to educate you about CFAP. He or she should answer your questions and provide you with an understanding of what your symptoms are about and what your treatment options are.

You need to express your views about your treatment goals, work with your doctor to develop the treatment plan, and work toward putting the plan into action. If you follow the treatment plan closely, you and your doctor will be better able to track your results. This will allow you to achieve the best possible relief of abdominal pain.