



Crohn's and
Colitis Canada
Crohn et
Colite Canada

PRESCRIPTION FOR HEALTH

MEDICATION AND CROHN'S
DISEASE & ULCERATIVE COLITIS



crohnsandcolitis.ca

MEDICATION AND YOUR DISEASE

If you or someone you know has been diagnosed with Crohn's disease or ulcerative colitis you need to know about the drugs that are available to help you. There are medications which can improve symptoms, reduce inflammation, and lead to an improved quality of life.

Crohn's and Colitis Canada realizes that you need information that will help you understand the different types of drugs available, their purpose, side effects and precautions. That is the purpose of this booklet.

Crohn's and Colitis Canada continues its pursuit to cure Crohn's disease and ulcerative colitis and improve the lives of children and adults affected by these chronic diseases.



UNIQUELY YOU AND YOUR DRUGS ARE TOO!

We should start off by saying that the drugs your doctor prescribes for you (the dosage and the effects you experience) are going to be unique to you. There is no “one size fits all” approach to medications, so be prepared to find out that others with the same condition may be taking different medications than you, in different doses and various combinations. You and your physician must work together to sort out what is the most effective regime (routine) for you when you are in a flare-up (relapse) or in remission (when your symptoms are under control). It is very important to understand that because Crohn’s and colitis are chronic relapsing diseases, it is important that you take your medication even when your symptoms are gone to increase the likelihood of a prolonged remission.

WHAT DO THE DRUGS DO?

Although medication cannot cure your disease, it can control the symptoms and decrease the likelihood of complications. The goal of treatment is to provide people with the disease a normal quality of life.

Generally, medications fall into one of two categories:

- Those that control the inflammation in your gut
- Those that deal strictly with the symptoms you are experiencing without touching the inflammation

In other words, one group of drugs actually puts out the fire in your gut while the other group gets rid of the smoke. However, remember where there is smoke there is fire and treating only with drugs that relieve symptoms is not usually recommended.



PROS AND CONS

You need to know that with every drug you take, there are pros and cons associated with the medication. The “pros” are those effects which are intended by your physician to help you with your disease, improve your symptoms, and improve your quality of life.

The “cons” are side effects you might experience which are unintended but not necessarily unexpected. It is important to also think about the risks of no medication, which often leads to worsening of symptoms and poor quality of life.

Side effects pose a tricky balancing act. If the main action of the drug is doing what it is supposed to do, but it is also causing you difficulties due to side effects, you and your doctor need to discuss the pros and cons of the prescription and the dosage you are taking. While the side effects described are sometimes worrisome or scary, your physician will usually aid you in demonstrating that the benefits greatly outweigh the risks. A workable balance needs to be established so that your symptoms can be controlled while giving you an acceptable quality of life.

STICK TO THE PROGRAM

Doctors, nurses and pharmacists sometimes refer to “patient compliance” when talking about the success or failure of a particular drug. It seems that some patients pay little regard to the instructions on the drug label (e.g., eat with meals), the frequency of taking their meds (e.g., take twice a day), dosage (e.g., two pills a day, not one) and prescription completion (e.g., take for 7 days) or renewal. This results in a failure of the drug to achieve the expected results.

Studies have shown that patient compliance is a key factor in the drug’s ability to relieve symptoms and control disease. In spite of this, some people decide to not take medicine as directed or sometimes not at all. Don’t be one of those patients who decides to alter their medications on their own. If you are having trouble with one of your prescriptions, talk to your pharmacist or physician.

HOW LONG WILL I BE ON MEDICATION?

Crohn’s disease and ulcerative colitis are chronic (lifelong) diseases. As such, you will probably be on some kind of medication for much of your life. The type, amount and dosage will vary depending upon whether you are in remission or having a relapse and may change with time. You and your doctor or nurse practitioner will work together to ensure you are on the best medication for you.

DRUGS THAT CONTROL THE INFLAMMATION IN YOUR GUT

Let's look at the drugs that fight the inflammation in your body. Overall, they fall into five classes:

1. Aminosaliclates
2. Glucocorticoids (steroids)
3. Immunomodulators
4. Antibiotics
5. Biologics

DRUGS THAT AFFECT YOUR SYMPTOMS

6. Ointments and Suppositories
7. Analgesics (Painkiller)
8. Anti-diarrheals
9. Bulk Formers
10. Bile Salt Binder (Cholestyramine)



The following information shows you the generic name or chemical name of drugs you may be prescribed, not the brand names. Be sure to discuss this with your healthcare provider to ensure you understand the name of the medication you are being prescribed, as this can get confusing.

1. AMINOSALICYLATES (5-aminosalicylic acid or 5-ASA)

Generic Names:	Used for:	How it works:	Taken:
<ul style="list-style-type: none">• Sulfasalazine• Mesalamine	<ul style="list-style-type: none">• To treat flares and achieve remission in mild to moderate ulcerative colitis, and to a lesser extent, CD• Reduces the risk of multiple relapses in UC patients	Decreases inflammation in the intestinal tract	Orally or rectally

Possible Side Effects:

Generally, these are very well tolerated medications. You may experience rash, nausea, headaches, increased diarrhea, or reduced appetite. It is also possible that you may experience a reduced sperm count if you are taking sulfasalazine (which goes back to normal when you stop the drug) or hair loss. If you are allergic to sulfa, then you should avoid sulfasalazine as this could cause hives, rash and swollen hands and/or face. Contact your doctor if this occurs.

Very rarely, a person might experience pancreatitis, hemolysis (breaking down of your red blood cells) or marrow aplasia (bone marrow shutdown) when taking one of the 5-ASA drugs. These are very rare and in general, this is considered a very safe class of medications.

Nutritional impact:

Sulfasalazines interfere with the absorption of folic acid. A folate supplement may be recommended.

2. GLUCOCORTICOIDS (Steroids)

Don't worry! These are not the steroids that you hear about when athletes are taking performance-enhancing drugs! This group of steroids includes powerful anti-inflammatories.

Generic Names:	Used for:	How it works:	Taken:
<ul style="list-style-type: none">• Prednisone• Hydrocortisone• Betamethasone• Budesonide	<ul style="list-style-type: none">• Inducing remission in moderate and severe attacks of CD and UC• Not for prolonged use	Made from cortisol (a hormone produced by your adrenal glands), these drugs quell the inflammation in your body and decrease the activity of the immune system	Orally, rectally or intravenously depending on which drug is used

Possible Side Effects:

Steroids are a class of drugs that have proven to be of tremendous benefit to people with Crohn's disease or ulcerative colitis, however you should be aware of their side effects. Side effects are common with this type of medication. Below is a partial list of those most commonly experienced; many of these will go away after steroid use has ceased:

Cosmetic Side Effects:

- Acne
- Redness of the face
- "Chubby cheeks"
- A tendency to bruise easily
- Fluid retention and weight gain

Effects on Your Metabolism:

- Increased appetite
- Weight gain
- Bone loss
- Increased blood pressure
- Increased susceptibility to infections

Psychological:

- Mood swings
- Depression
- Feeling energized

Rare side effects but sometimes experienced:

- Muscle weakness
- Psychosis
- Osteonecrosis (reduced blood flow to the joints in your body, especially the hip)

Prolonged use of steroids can result in:

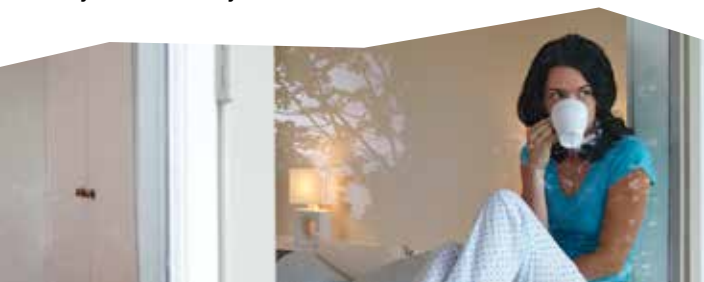
- Osteoporosis
- Cataracts
- High blood pressure
- Steroid-induced diabetes

Because the use of steroids causes your natural production of cortisol to decrease, you should never stop taking them suddenly. If you do, you may experience nausea, fatigue, weakness, lightheadedness or diarrhea. A gradual tapering off of the dosage is necessary to give your body time to ramp up its own production of cortisol.

It's important to let others on the health care team know that you are on steroids. Remind them that you are taking steroids and consider wearing a medical alert bracelet stating their use.

Nutritional impact:

Steroids interfere with your absorption of calcium and protein. Calcium and vitamin D supplements may be necessary.



3. IMMUNOMODULATORS

Generic Names:	Used for:	How it works:	Taken:
<ul style="list-style-type: none">• 6-Mercaptopurine and Azathioprine• Methotrexate (CD)	<ul style="list-style-type: none">• Long-term treatment to maintain remission in UC and CD, not for acute attacks• Helping people reduce the use of steroids	Suppresses your immune system, thereby reducing the overactive inflammatory response typical of IBD	Orally or by injection
<ul style="list-style-type: none">• Cyclosporin	<ul style="list-style-type: none">• Severe UC flare-ups in hospitalized patients	As above	Intravenous or by injection initially followed later by oral medication

Immunomodulators do suppress your ability to fight infections in general. You are therefore more susceptible to picking up infections so you should get into the habit of regular hand washing during the day, particularly before eating. Most people however, do not find they are getting common infections (e.g. common cold, flu) more often.

Potential Side Effects:

These drugs are generally well-tolerated however a few people may encounter trouble with nausea, upset stomach, fever or rash. Due to the possibility that some serious complications can arise (e.g., pancreatitis, non-specific abdominal pain), people on immunomodulators should have complete blood work done regularly while on these medicines.

If you develop severe flu-like symptoms or abdominal pain while taking azathioprine or 6-mercaptopurine, you should stop the medication and call your doctor immediately. Shortness of breath and cough while on Methotrexate may be signs of an allergic reaction and warrant an immediate call to your doctor. Long-term use of methotrexate can cause liver inflammation so regular liver tests are needed. Methotrexate should not be taken by men or women several months before conception.

Cyclosporin can have side effects such as infections and kidney damage as well as increase in blood pressure, tremor, seizures and increased facial hair growth.

There has been research into the possibility of an increased risk for cancer associated with the use of azathioprine/6-mercaptopurine. Specifically, there may be a very small individual risk of developing lymphoma (cancer of the lymph nodes). There is also an association between non-melanoma skin cancers and azathioprine/6-mercaptopurine and you should therefore see a dermatologist once a year while on these medications.

4. ANTIBIOTICS

Generic Names:	Used for:	How it works:	Taken:
<ul style="list-style-type: none"> • Metronidazole • Ciprofloxacin 	<ul style="list-style-type: none"> • Sometimes used as the primary therapy for people with CD • When a CD or UC patient has an abscess/ infection 	<ul style="list-style-type: none"> • It is not totally understood why they are effective as primary therapy (the only meds given) for CD • Antibiotics kill or immobilize bacteria and control infections 	Orally or intravenously

Possible Side Effects:

Metronidazole can cause nausea, vomiting, constipation or the opposite – diarrhea. Some people complain of a metallic taste when taking the drug. If used long-term, you can experience numbness in hands or feet resulting in difficulties with balance. If these symptoms occur, contact your doctor immediately. Drinking alcohol while on this drug can cause nausea, vomiting, flushing and weakness.

Ciprofloxacin may cause nausea and diarrhea, but this is normally short-term and quite rare. It also prolongs the effects of caffeine and can cause insomnia and vivid dreams. There are occasional reports of tendonitis (inflammation of the tendons).

Both types of antibiotics can also result in yeast infections in women and *Clostridium difficile* (*C. diff*) infections after the antibiotics are finished. *C. diff* causes diarrhea and may aggravate your disease.

Nutritional and other impacts:

Antacids (calcium carbonate) may interfere with your body's ability to absorb antibiotics so do not take both within a few hours of each other. Also, antibiotics can decrease the effectiveness of your birth control pills! And beware that antibiotics can dangerously affect you if you are taking any anti-coagulant medication; adjustments to your meds may be in order so be sure to remind your doctor that you are taking both kinds of drugs. Finally, stay out of the sun while on certain antibiotics as they may increase your sensitivity to exposure.

Antibiotics can interfere with your body's ability to absorb calcium, zinc, iron, vitamin K and biotin. The absorption of antibiotics may be interfered by over the counter and prescription drugs. This should be reviewed with your pharmacists.

5. BIOLOGIC MEDICATIONS

Biologics are the latest generation of medications to treat Crohn's disease and ulcerative colitis because of their targeted action on specific molecules to block inflammation or activate other molecules to reduce inflammation.

For more information on biologic medications please visit crohnsandcolitis.ca/brochures



DRUGS THAT AFFECT YOUR SYMPTOMS

Some of the following are available over-the-counter in your drugstore. Be careful. Just because a drug is available without a prescription does not mean that it is without side effects. Remember that all drugs require informed decision-making and a balance between desired results and undesired effects.

6. OINTMENTS AND SUPPOSITORIES

Use off-the-shelf ointments to reduce inflammation around hemorrhoids to reduce the swelling and itching. Most of these ointments contain a steroid such as hydrocortisone and will help to shrink inflamed tissue.

A daily sitz bath will also help to calm tissue around a fissure or anal sphincter that has gone into spasm due to surrounding inflammation.

Zinc oxide or baby ointment can be soothing and protective if a person is experiencing anal itching. Apply after a sitz bath.

7. ANALGESICS (painkillers)

Beware of the use of acetylsalicylic acid (ASA) and non steroidal anti inflammatory drugs (NSAIDs) for pain. Examples of NSAIDs include ibuprofen and naproxen. People with Crohn's disease or ulcerative colitis are more prone to stomach and duodenal ulcers from the use of these common painkillers and, in addition, they may cause a flare-up of your disease.

The NSAIDs in particular require caution due to their tendency to aggravate symptoms. If a mild analgesic is required, try acetaminophen or acetaminophen with codeine for more severe pain. However, be aware that large and prolonged doses of these drugs have been linked to liver damage and kidney failure.

8. ANTI-DIARRHEALS

These can either be prescription or non-prescription drugs depending on the type. These drugs reduce diarrhea by altering muscle activity of the gut and slowing down the passage of the food bulk. Be careful



– sometimes the anti-diarrheals work too well and constipation can occur. They are not usually taken during a flare-up as they may encourage complications of your disease. Talk to your doctor before using them.

9. BULK FORMERS

Use for relieving constipation (or surprisingly – mild diarrhea), bulk formers are not actually drugs, but alternatively fibre that soaks up and binds water, thereby making stool less loose and bowel movements more frequent.

10. BILE SALT BINDER (Cholestyramine)

If you have Crohn's disease, and your ileum is inflamed, you can have difficulty absorbing bile salts from your gut. Bile salts are normally helpful to you by assisting the gut in digesting fat; however, if your ileum is not functioning properly, the bile salts remain in your colon and irritate it. This results in diarrhea. Cholestyramine helps to prevent this irritation, thereby reducing diarrhea.

Possible side effects include vomiting, nausea, constipation, increased diarrhea, abdominal pain and bloating. Bile salt binders inhibit the absorption of vitamins A, D, E and K, so vitamin supplements may be required.

WHAT ABOUT HERBAL MEDICINES?

Herbal medicines are still medicine. They contain active ingredients that have an effect on your body. Be sure to discuss all of the herbal medicines you are thinking about taking with your doctor as some of them may interact with the medications you are being prescribed. There are no herbal medications that have been approved to treat Crohn's disease or ulcerative colitis. Beware of "fad" diets, drinks and health foods that come with claims of miracle cures. If there is a cure out there, your healthcare team will let you know.



ABOUT CROHN'S AND COLITIS CANADA

Crohn's and Colitis Canada is the only national, volunteer-based charity focused on finding the cures for Crohn's disease and ulcerative colitis and improving the lives of children and adults affected by these diseases. We are one of the top two health charity funders of Crohn's and colitis research in the world and the largest non-governmental funder in Canada. We are transforming the lives of people affected by Crohn's and colitis (the two main forms of inflammatory bowel disease) through research, patient programs, advocacy, and awareness.

Our Crohn's & Colitis – Make it stop. For life. campaign will raise \$100 million by 2020 to advance our mission.

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For more information on Crohn's disease or ulcerative colitis visit our website **crohnsandcolitis.ca** or call 1-800-387-1479

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