







OXALIPLATIN, LEUCOVORIN, FLUOROURACIL (FOLFOX) AND BEVACIZUMAB

Name of the regimen and cancer drugs

Your care team may refer to your treatment as FOLFOX and bevacizumab. FOLFOX and bevacizumab consists of 4 different anticancer therapies.

- Oxaliplatin (ox al" I pla' tin): Eloxatin
- Leucovorin (loo koe vor' in)
- 5FU; Fluorouracil (floor" oh ure' a sil): Adrucil
- Bevacizumab (be va siz' yoo mab): Avastin, Mvasi, Zirabev

Common uses

FOLFOX and bevacizumab is most commonly used to treat colon cancer but may be used for other treatments.

Treatment schedule

Your treatment will be given into your vein through an intravenous (IV) line. This may be into a short, flexible temporary catheter in your arm, or through a central venous catheter. A central venous catheter, or central line is a long, flexible IV tube that empties into a very large vein next to the heart. Talk with your care team to see which will be best for you and your treatment.

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- Oxaliplatin IV on Day 1
- ☐ Flourouracil (5-FU) IV push on Day 1
- ☐ Fluorouracil (5-FU) continuous IV infusion over 46-48 hours beginning on Day 1 and ending on Day 3
- Bevacizumab IV on Day 1

Each FOLFOX + bevacizumab treatment is repeated every 14 days. This is known as one cycle. Your treatment may be given for a set number of cycles, or it will keep going until the drug, or drugs, stop working or you have side effects which stop you from continuing treatment.

Drug Cycle 1	Day 1	2	3	4	5	6	7	8	9	10	 Cycle 2 Day 1
Oxaliplatin											
Leucovorin											
5FU											
Bevacizumab											

Other medications

Other medications may be ordered for you to prevent or treat certain side effects. These include:

	Instructions:
Growth Factors	Growth factors, like filgrastim, pegfilgrastim, and others, are medications used to treat neutropenia and prevent infections. Neutropenia is a condition where there are lower-than-normal white blood cells caused by some type of chemotherapy. Growth factors help the bone marrow to make more white blood cells.









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	Instructions:
Anti-nausea medications	You will receive medications to prevent nausea just before your chemotherapy. You may get prescriptions for other medications to take at home, as below:

Possible drug interactions

- FOLFOX and bevacizumab may interact with other drugs you are taking. Please inform your care providers of all prescription medicine, over-the-counter medications, vitamins, and herbal products that you take.
- Talk with your care provider or pharmacist before taking new medications, supplements, or receiving any vaccines.

Common Side Effects

Common side effects that have been known to happen in patients receiving FOLFOX and bevacizumab are listed in the left side of this table. In some instances, the side effects may be reported less often but are still important to discuss. This table does not list all the known side effects for this therapy, only the ones that are experienced most often. Not every patient experiences every known side effect of a drug; even if you are taking the same drug as another patient, you may experience different side effects. Options to help manage any side effects that do occur are included on the right side of this table. These should be discussed with your care provider. If you experience any side effect you cannot manage or that is not listed here, contact your care provider.

Possible Side Effect	Management
Decreased white blood cells (WBCs) and increased risk for infection	Your WBCs should be monitored by a simple blood test. When your WBCs are low, you are at a greater risk of having an in-fection. Take the following precautions to protect yourself from infection. • Wash your hands often, especially before eating and after using the bathroom. • Avoid crowds and people with fevers, flu, or other infection. • Bathe often for good personal hygiene. Contact your care team if you experience any signs or symptoms of an infection such as: • Fever (temperature more than 100.4°F or 38°C) • Chills • Sore throat • Burning when peeing • Tiredness that is worse than normal • A sore that becomes red, is draining, or does not heal. Check with your care team before taking any medicine for a fever or chills.
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Possible Side Effect	Management
Decreased hemoglobin, part of the red blood cells that carry iron and oxygen	Your hemoglobin should be checked by a simple blood test. When your hemoglobin is low, you may notice that you get tired or fatigued more easily. Try to get 7 to 8 hours of sleep per night Avoid operating heavy machinery if you feel too tired Find a balance between "work" and "rest" Stay as active as possible, but know that it is okay to rest as needed, too You might notice that you are more pale than usual Let your care team know right away if you have: Shortness of breath Dizziness Fast or abnormal heartbeat
Nausea or vomiting	 Take all medications as prescribed to help prevent and lessen symptoms of nausea and vomiting Eat and drink slowly Drink 8-10 (8-ounce) glasses of water and/or fluid (soup or broth) each day unless your care team has instructed you to limit your fluid intake Eat small, frequent meals throughout the day rather than a few large meals Eat bland foods; avoid spicy, fried, and greasy foods Avoid intense exercise immediately after eating Don't lay down right away after eating Wear loose fitting clothing for comfort Avoid strong odors. Consider getting fresh air and try deep breathing. Let your care team know if you have nausea or vomiting. Your care team may prescribe medication to help with the symptoms.
Mouth irritation or sores (stomatitis or mucositis)	 Practice good mouth care. Rinse your mouth after meals and at bedtime, and more frequently if you develop sores in your mouth Brush your teeth with a soft toothbrush or cotton swab after meals Use a mild non-alcohol mouth rinse at least 4 times a day (after eating and at bedtime). One example is a mixture of 1/8 teaspoon of salt and 1/4 teaspoon of baking soda in 8 ounces of warm (not hot) water Avoid acidic, hot or spicy foods and beverages, and rough foods that might irritate the mouth If you have sores in your mouth, avoid using tobacco products, alcohol, and mouthwashes that contain alcohol Call your care team if you experience pain or sores in your mouth or throat.
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Possible Side Effect	Management					
Fatigue	 You may be more tired than usual or have less energy. Stay as active as possible, but know it is okay to rest as needed. Try to do some type of moderate activity every day. Conserve your energy. Plan your activities and do them at a time of day when you feel a bit more energetic. Follow a healthy diet and stay hydrated. Accept help from family and friends Find healthy ways to manage stress, such as meditation, journaling, yoga, and guided imagery Develop good sleeping habits, limit napping during the day to help you sleep better at night. Avoid operating heavy machinery if you feel too tired. Contact your care team if you experience extreme fatigue that prevents you from doing your normal daily activities. 					
Numbness or tingling in hands and feet	Report changes in your sense of touch, such as a burning feeling, pain on the skin or weakness.					
Diarrhea (loose and/ or urgent bowel movements)	Monitor how many bowel movements you have each day. Drink 8-10 (8-ounce) glasses of water or fluid each day unless your care team has asked you to limit your fluid intake. Eat small, frequent meals throughout the day rather than a few large meals. Eat bland, low-fiber foods (such as bananas, applesauce, potatoes, chicken, rice, and toast). Avoid high fiber foods, such as raw vegetables and fruits and whole grains. Avoid foods that cause gas, such as broccoli and beans. Avoid foods with lactose, such as yogurt and milk. Avoid spicy, fried, and greasy foods. Contact your care team if: The number of bowel movements you have in a day increases by 4 or more You feel dizzy or lightheaded Talk with your care team if you believe you have diarrhea. They may recommend an over-the-counter medication or prescribe something to help keep it under control.					
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Possible Side Effect	Management					
Sun sensitivity	Your skin will be more sensitive to the sun. Avoid excess sun exposure to decrease the risk of sunburn Wear a broad-brimmed hat Apply broad-spectrum sunscreen (UVA/UVB) with SPF 30 or higher and use a lip balm with at least SPF 30 Avoid tanning beds					
Pain of discomfort on hands and/or feet	Hand-and-foot syndrome (HFS) is a skin reaction that appears on the palms of the hands and soles of the feet. It can appear as a rash, peeling skin, or a "pins and needles" sensation. Let your care provider know right away if you experience this side effect. To prevent HFS, you can: Keep hands and feet moisturized with a non-fragranced moisturizing cream Urea 10% or 20% cream may be helpful Avoid exposure to hot water on the hands and feet, in showers, baths or doing dishes Avoid tight shoes or socks Avoid excess rubbing on hands and feet unless putting on lotion Wear gloves when working with your hands					
Sensitivity to cold	Oxaliplatin can cause you to be VERY sensitive to cold for 3-7 days after treatment. • Avoid exposure to cold temperatures or touching cold objects • Avoid cold drinks, ice, and cold food. Use a straw when drinking cool liquids • Wear gloves when reaching into the freezer or handling cold objects Wear gloves and cover mouth with a scarf during cold weather					









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Rare but serious side effects

Tell	I your care provider if you experience any symptoms of these probl	ems:	
П	Interctitial Lung Diseases: Ovalinatin may be harmful to your lungs	Inform your care team of any new difficulty has	athing

- Interstitial Lung Disease: Oxaliplatin may be harmful to your lungs. Inform your care team of any new difficulty breathing, cough, or fever. Your provider may stop treatment with oxaliplatin if your lungs are affected.
- Hypersensitivity Reactions: Severe allergic reactions are a rare but serious side effect of oxaliplatin. Right away seek medical attention if you notice difficulty breathing, swelling of the mouth or tongue, or a serious rash.
- ☐ Wound Healing Problems: If you need to have a surgical or dental procedure, tell your doctor that you are taking bevacizumab. Bevacizumab may need to be stopped until your wound heals after some types of surgery.
- Dihydropyrimidine dehydrogenase (DPD) deficiency is a rare genetic condition where the body cannot break down certain cancer treatments, leading to severe side effects. Talk to your doctor to see if you should be tested.

If you experience ANY new, worsening, or uncontrolled side effects, call your care team immediately.

(INSTITUTIONAL CONTACT INFO)
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Handling body fluids and waste

Some of the drugs you receive may be present in urine, stool, sweat, or vomit for many days after treatment. Many cancer drugs are toxic, your bodily waste may also be toxic and can be dangerous to come into contact with. Once you have started FOLFOX and bevacizumab, follow the instructions below for at least two days after your treatment. This is to keep you, your loved ones, and the environment as safe as possible.

- Pregnant women should avoid touching anything that may be soiled with body fluids from the patient.Toilet and septic systems
 - You may use the same toilet, septic tank, and/or sewer that you usually use. If you have a low-flow toilet, close the lid and flush twice to ensure that all waste has been discarded.
- ☐ If the toilet or toilet seat becomes soiled with urine, stool, or vomit, clean the surface after every use before other people use the toliet.
- ☐ Wash hands with soap and water after using the toilet for at least 20 seconds.
- ☐ If you need a bedpan, be sure your caregiver knows to wear gloves to assist with cleanup and to wash the bedpan with soap and water every day.
- ☐ If you do not have good control of bladder or bowels, use a disposable pad with a plastic back, a diaper, or a sheet to absorb body waste.
- ☐ Wash any skin that has been exposed to body waste with soap and water.
- Linens or clothing that are soiled with body fluids or body waste should be washed separately from other linens and clothing. If you do not have a washer, place the soiled linens in a plastic bag until they can be washed.
- ☐ Wash hands with soap and water after touching linens or clothing that may be soiled with body fluids.









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Intimacy, sexual activity, contraception, and fertility

This treatment may cause changes that can affect intimacy and sexuality, including desire and body image. Maintaining physical closeness and/or intimacy with loved ones can be continued during treatment. Holding hands, hugging, and kissing can be done safely. It is recommended that you talk to your care team about any restrictions or questions you may have.

Some treatments can influence the ability to have children, also known as fertility. If you're interested in preserving fertility, talk to your care team before treatment. Ask your healthcare provider to determine when it is safe to become pregnant after your treatment. Patients of reproductive ability should not become pregnant or get their partners pregnant while receiving FOLFOX and bevacizumab. Some of the drugs you receive may be present in semen and vaginal secretion for many days after treatment. You should use barrier devices, such as condoms, during sexual activity to limit exposure to body fluids.

Talk to your care team about birth control. Not all options may be right for your treatment or cancer. Effective contraception
could include one or more of the following: barrier methods (e.g. condoms), hormone methods (e.g. birth control pills), or
surgery.

Tell vo	ur care	team if v	/ou	become	pregnant	or	plan	to	breastfee

Additional resources

Oxaliplatin: https://www.accessdata.fda.gov/drugsatfda_docs/label/2011/021759s012lbl.pdf Leucovorin: https://www.accessdata.fda.gov/drugsatfda_docs/label/2012/040347s010lbl.pdf

5FU: https://www.accessdata.fda.gov/drugsatfda_docs/label/2016/012209s040lbl.pdf

Additional instructions		

Updated – July 20, 2021

Important notice: The Association of Community Cancer Centers (ACCC), Hematology/Oncology Pharmacy Association (HOPA), National Community Oncology Dispensing Association, Inc. (NCODA), and Oncology Nursing Society (ONS) have collaborated in gathering information for and developing this patient education guide. This guide represents a brief summary of the therapy derived from information provided by the drug manufacturer and other resources. This guide does not cover all existing information related to the possible uses, directions, doses, precautions, warnings, interactions, adverse effects, or risks associated with this therapy and should not substitute for the advice of a qualified healthcare professional. Provision of this guide is for informational purposes only and does not constitute or imply endorsement, recommendation, or favoring of this therapy by ACCC, HOPA, NCODA, or ONS, who assume no liability for and cannot ensure the accuracy of the information presented. The collaborators are not making any representations with respect to the medications whatsoever, and any and all decisions, with respect to such medications, are at the sole risk of the individual receiving therapy. All decisions related to receiving this therapy should be made with the guidance and under the direction of a qualified healthcare professional.

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