







DEXAMETHASONE, CYTARABINE, AND CISPLATIN (DHAP)

Name of the regimen and cancer drugs

Your care team may refer to your treatment as DHAP. DHAP consists of 3 different anti-cancer therapies.

- D: Dexamethasone (DEK-suh-MEH-thuh-sone): Decadron
- H: High Dose
- A: Cytarabine (sy-TAYR-uh-been): Cytosar-U, Ara-C
- P: Cisplatin (sis-PLA-tin): Platinol

Common uses

This regimen is mostly commonly used for Diffuse Large B-Cell Lymphoma but may be used for other diagnoses.

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.

Each DHAP treatment is repeated every 21 or 28 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.

- ☐ Dexamethasone IV or oral given on Days 1-4
- Cytarabine IV over 3 hours every 12 hours for 2 doses given on Day 2
- ☐ Cisplatin IV continuous infusion over 24 hours beginning on Day 1 and ending on Day 2

Drug	Cycle 1	Day 1	2	3	4	5	6	7	8	:	21	Cycle 2 Day 1	2
Dexam	ethasone												
Cytaral	oine												
Cisplat	in												









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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.
Anti-nausea medication other medications	You will receive medications to prevent nausea and other side effects just before your chemotherapy. You may get prescriptions for other medications to take at home, as below:
Infection prevention	There is a risk of serious infections during treatment. You may receive medications to prevent infection in the hospital, and may also get prescriptions for medications to take at home for infection prevention, as below:
Medications to prevent allergic reactions	You will receive medications to prevent infusion related reactions prior to starting your cancer treatment.

Possible drug interactions

- DHAP 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.
- ☐ Grapefruit or grapefruit juice may interact with DHAP. Avoid eating or drinking these during your treatment.









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Common Side Effects

Common side effects that have been known to happen in patients receiving DHAP 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 infection. 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 symp-toms 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				
	Your platelets should be monitored by a simple blood test. When they are low, you may bruise or bleed more easily than usual.				
Decreased platelet	 Use caution to avoid bruises, cuts, or burns. Blow your nose gently and do not pick your nose Brush your teeth gently with a soft toothbrush and maintain good oral hygiene When shaving use an electric razor instead of razor blades Use a nail file instead of nail clippers 				
count and increased risk of bleeding	 Call your care team if you have bleeding that won't stop. Examples include: A bloody nose that bleeds for more than 5 minutes despite pressure A cut that continues to ooze despite pressure Gums that bleed a lot when you floss or brush 				
	Seek medical help right away if you have any severe headaches, blood in your urine or stool, coughing up blood, or bleeding that you cannot stop or lasts a long time.				
	You may need to take a break or "hold" your medication for medical or dental procedures. Talk to your care team or dentist before any scheduled procedures.				
	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.				
Degraged	 Try to get 7 to 8 hours of sleep per night Avoid operating heavy machinery if you feel too tired 				
Decreased hemoglobin, part of the red blood cells that	 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 				
carry iron and oxygen	Let your care team know right away if you have: Shortness of breathDizzinessFast or abnormal heartbeat				
Changes in kidney	Your care team will routinely monitor your kidney function using a simple blood test. Contact your care team if you notice any of the following:				
function	 Decreased amount of urination Unusual swelling in your legs and feet 				
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Possible Side Effect	Management
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 often 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 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.
Changes in electrolyte levels and other laboratory values: • Low magnesium levels • Low potassium levels • Low calcium levels	Changes in some lab values may occur and will be monitored by a simple blood test. You may not feel any symptoms if the changes are mild and they usually are not a sign of a serious problem. More severe changes may occur, which can be a sign of a serious problem. Notify your care team if you have any of the following: Shortness of breath Chest discomfort Weakness or fatigue New aches and pains Headaches Dizziness Swelling of your legs or feet Red or brown colored urine
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Possible Side Effect	Management
Numbness or tingling in the hands or feet	Report changes in your sense of touch, such as a burning feeling, pain on the skin or weakness.
Hair loss (alopecia)	 Hair will likely grow back after treatment is completed, although the color and/or texture may be different. Some people choose to wear scarves, caps, or wigs. A short haircut prior to treatment may help with stress of hair loss. Partial or complete hair loss is likely, usually 1-2 weeks after start of therapy. This hair loss can be all body hair. It may take 3 to 6 months after therapy is completed to resume normal hair growth. Be sure to keep your head covered to protect it from the sun during the summer and cold during the winter. If not covering your scalp during the summer months, be sure to use sunscreen when spending time outdoors.

Rare but serious side effects

Tell your care provider if you experience any symptoms of these problems:

monitor you regularly throughout treatment.

Pulmonary toxicity: Cytarabine may result in serious and fatal lung toxicity. If you start to experience shortness of breath, fatigue, breathlessness, or discomfort/worsening of symptoms while lying on your back, immediately contact your care team.

Central neurotoxicity: Cytarabine can cause changes to your balance, confusion, dizziness, or headache. Your care team will

- ☐ Hepatic toxicity: Cytarabine may be harmful to your liver. Speak to your care team to know when you need to have blood tests done to monitor your liver function. If you get this side effect, your doctor may change your dose or stop treatment for some time.
- Conjunctivitis: Cytarabine may cause eye pain, blurred vision, tearing, and light sensitivity. You may receive eye drops to prevent this side effect from occurring.
- □ Vesicant extravasation: Cisplatin is a vesicant at higher concentrations. If it leaks outside of the IV, it can cause severe damage to your skin. Notify your nurse right away if you feel any pain, aching, burning, itching, swelling, or redness at the site of your IV.
- Ototoxicity: Cisplatin may be harmful to your sense of hearing. Inform your care team if you have any ringing in the ears, hearing loss, or any other change in hearing.
- Secondary Malignancy: A secondary cancer can rarely occur months or years after treatment with cisplatin. Your care team will check your blood cell counts even after treatment is done to monitor for this side effect.









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Rare but serious side effects (cont.)

	tarabine syndrome: this regimen may cause cytarabine syndrome, a rare condition of several symptoms that appear afte ceiving cytarabine. Tell your care team if you develop any fever, muscle pain, bone pain, chest pain, eye pain, or rash afte ur treatment.						
	Tumor lysis syndrome: this regimen may cause tumor lysis syndrome, a rapid destruction of cancer cells that can caus organ dysfunction when starting treatment. Your care team may do blood tests to check for this side effect.						
	persensitivity Reactions: Severe allergic reactions are a rare but serious side effect of this regimen. Seek medical attenti ht away if you notice difficulty breathing, swelling of the mouth or tongue, or a serious rash.	ion					
If you	perience ANY new, worsening, or uncontrolled side effects, call your care team immediately.						
	(INSTITUTIONAL CONTACT INFO)						
Han	ng body fluids and waste						
d E	e of the drugs you receive may be present in urine, stool, sweat, or vomit for many days after treatment. Many cancer is are toxic, your bodily waste may also be toxic and can be dangerous to come into contact with. Once you have started P, follow the instructions below for at least two days after your treatment. This is to keep you, your loved ones, and the comment as safe as possible.	ł					
	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.	İ					
	f the toilet or toilet seat becomes soiled with urine, stool, or vomit, clean the surface after every use before other people us he toliet.	se					
	Nash hands with soap and water after using the toilet for at least 20 seconds.						
	f 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.						
	f 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 DHAP. 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 your	care team if	you become	pregnant or	plan to	breastfeed
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Additional resources

Prescribing information link

Dexamethasone: https://www.accessdata.fda.gov/drugsatfda_docs/label/2004/11664slr062_decadron_lbl.pdf

Cytarabine: https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/071868s032lbl.pdf **Cisplatin:** https://www.accessdata.fda.gov/drugsatfda_docs/label/2019/018057s089lbl.pdf

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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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