

TCyHP

Chemotherapy Teaching

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Chemotherapy Regimen

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Treatment Regimen

Dosing & Schedule

Side Effects

Supportive Care Medications

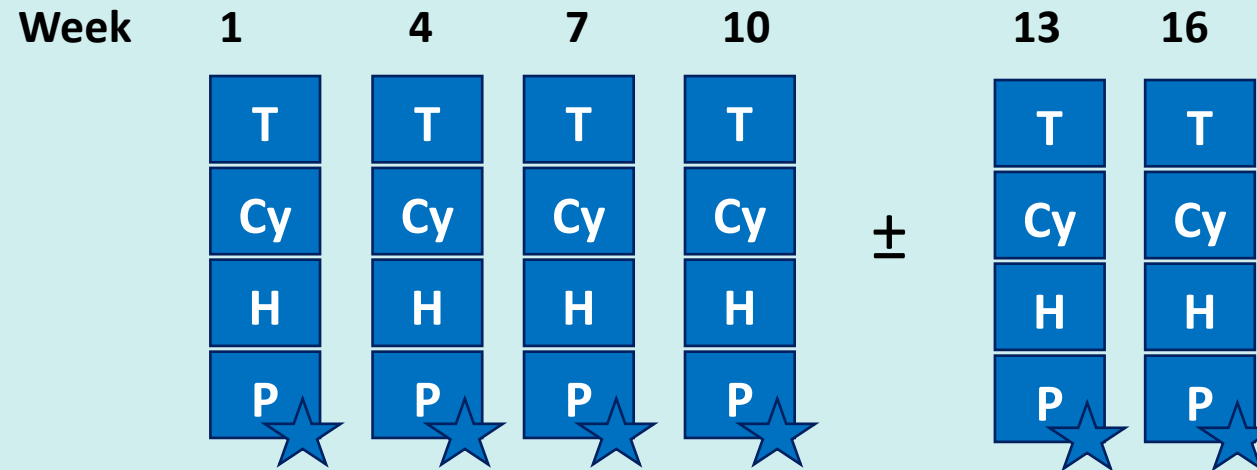
You are going to start on a chemotherapy treatment plan called TCyHP. TCyHP refers to a combination of medications given in a special order to treat your cancer.

- Docetaxel (Taxotere)
- Cyclophosphamide (Cytotoxan)
- Trastuzumab (Herceptin)
- Pertuzumab (Perjeta)



Chemotherapy Regimen

Total TCyHP course runs 12-18 weeks



All drugs given IV once every **3 weeks** for a total of **4-6 cycles**. This will total **12-18 weeks**
After TCyHP, you may continue with H±P maintenance (or a similar drug), given IV every 3 weeks to complete 1 year total.

HP may also be given as a subcutaneous (under the skin) injection over 5-8 minutes.

★ **Pegfilgrastim** (or biosimilar) injection the day after each cycle

Side Effects of TCyHP

Very Common

- Hair loss, fatigue, diarrhea, low blood counts (such as a decrease in white blood cells that help fight infection, a decrease in red blood cells that carry oxygen throughout the body, or a decrease in platelets that help the blood clot)

Common

- Muscle/joint aches, numbness/tingling (hands/feet), nausea, reflux or heartburn, mouth sores, nail changes

Less Common

- Swelling (arms/legs), constipation, vomiting, fever, infection, mild infusion reaction

Rare

- Bladder damage, leukemia (blood cancer), effects on heart function, lung inflammation



Side Effects of maintenance HP

Common

- Fatigue
- Diarrhea

Rare

- Effects on heart function
- A heart test (echo) will be done as needed.



Managing Side Effects: Infection

- Pegfilgrastim (or biosimilar)
 - 6mg injection 24-48 hours after completion of chemotherapy
 - Side effects: bone pain
 - You may be eligible for Neulasta Onpro auto-injector. For more information, visit <https://www.neulasta.com/stay-at-home-with-neulasta-onpro/>
- Taking CLARITIN (loratadine) 1 tablet (10 mg) daily for 5-7 days can help prevent the side effect of bone pain
- Taking over-the-counter pain medication can help *treat* bone pain



Managing Side Effects: Infection

Important steps to prevent infection:

- Practice hand hygiene: wash hands frequently especially before eating, after use of the bathroom and after contact with high touch surfaces under warm water with soap, towel dry
- Wipe down high touch with moist cleaning wipes
- Stay away from large crowds and gatherings
- Do not go near anyone who is sick
- Do not clean up animal droppings, animal cages, and tanks



Managing Side Effects: Nausea and Vomiting

In clinic medications

Your nurse will give you these medications 30-60 minutes before your infusion

- DECADRON (Dexamethasone)
- ZOFRAN (Ondansetron)



Managing Side Effects: Nausea and Vomiting

At home prescriptions

- DECADRON (Dexamethasone)
 - **Day before chemo:**
 - Take 2 tablets (8mg) in the morning AND 2 tablets afternoon, with food
 - **Day 1 (day of chemo):**
 - Given in infusion on the day of chemotherapy
 - **Day 2 (day after chemo):**
 - Take 2 tablets (8mg) in the morning AND 2 tablets afternoon, with food



Managing Side Effects: Nausea and Vomiting

As needed prescriptions

- ZOFRAN (Ondansetron)
 - 1 tablet (8mg) every 8 hours ***as needed*** for nausea
 - First dose is given in infusion
- COMPAZINE (Prochlorperazine)
 - 1 tablet (10mg) every 6 hours ***as needed*** for nausea
- ATIVAN (Lorazepam)
 - 1 tablet (0.5-1mg) every 6 hours ***as needed*** for nausea



Managing Side Effects: Over-the-counter Medications

Diarrhea

Imodium (Loperamide)

2 tablets (4 mg) with first loose stool, then 1 tablet (2 mg) with each stool thereafter for diarrhea (do not take more than 16mg/day)

Constipation

Sennakot (Senna)

2 tablets (17.2 mg) daily as needed for constipation
[Other option: Dulcolax (Bisacodyl) 1 tablet (5 mg) daily as needed]

Colace (Docusate)

1 capsule (100 mg) daily as needed for constipation

Miralax (Polyethylene Glycol)

1 capful (17 g) mixed with 1 glass of water daily as needed for constipation



Managing Side Effects: Over-the-counter Medications

Reflux & Heartburn

Tums (Calcium carbonate)	1 to 4 tablets (500-2000mg) as needed when reflux/heartburn symptoms occur
Pepcid (Famotidine)	1 to 2 tablets (10-20mg) twice daily as needed for reflux/heartburn
Prilosec (Omeprazole)	1 tablet (20mg) once daily for 14 days

Aches & Pain

Tylenol (Acetaminophen)	2 tablets (1000mg of <i>Extra Strength</i>) every 8 hours as needed for pain or 2 tablets (650mg of <i>Regular Strength</i>) every 6 hours as needed for pain. Do not exceed 3000mg/day.
Motrin/Advil (Ibuprofen)	1-3 tablets (200-600mg) every 6 hours with food as needed for pain. Do not exceed 2400mg/day. [Alternative: Aleve (Naproxen) 1 tablet (200mg) every 8 hours with food as needed for pain. Do not exceed 600mg/day.]



Managing Side Effects: Peripheral Neuropathy

- Peripheral Neuropathy is numbness, tingling, loss of sensation, or weakness in your hands or feet.
- There is no one way to prevent chemotherapy-induced peripheral neuropathy.
- Tell your treatment team if you are experiencing these symptoms. We can prescribe medicine to help you.

To help:

- Protect your hands and feet from extreme heat or cold
- Wear comfortable non-slip shoes
- Don't wear clothing or shoes that are too tight



Fertility

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Other Information

Sexuality & Fertility

Supportive Care Resources

- Your treatment can affect fertility in women and men.
- Infertility means you cannot become pregnant or make someone pregnant. Infertility related to chemotherapy can be temporary or permanent.
- Before starting treatment, talk with your healthcare team about preserving your fertility and what you can do.
 - Egg harvesting for women and sperm banking for men may be options before starting chemotherapy.



Sexuality and Birth Control

- It is fine to be sexually active while receiving chemotherapy; however, you should not get pregnant or get someone pregnant during this time.
- Women may notice a change in their menstrual periods during chemotherapy treatment. Bleeding may lessen, become spotty, or stop completely.
- Women can still get pregnant even if their menstrual period changes or stops. Always use a reliable form of birth control.
- Tell your healthcare team right away if you have unprotected sex or if you think that birth control has failed.



Supportive Care Resources

- Yoga
- Acupuncture / Acupressure
- Massage
- Support groups
- Survivorship programs
- Workshops
- Music therapy

To learn more about all our Supportive Care offerings log onto: massgeneral.org/cancer/supportive-care



Frequently Asked Questions

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Frequently Asked Questions

Treatment Day Overview

Exercise & Diet

Supplements & Herbs

- **Q: What will my day look like?**
 - Lab Appointment (~15 mins)
 - Provider Appointment (~30 mins)
 - Pre-medications/Hydration (~30 mins)
 - Infusion (~3-5 hours)
 - Times will vary for each patient, but your doctor can help provide an estimate during your first appointment.



Frequently Asked Questions

Q: **Who do I call for cold caps?**

- You may be eligible for cold caps, a device to reduce hair loss. Please talk to your care team for more information.

Q: **Can I exercise?**

- Yes, exercise is generally safe for cancer patients. Your ability to exercise may depend on the type of cancer and treatments being used. Please talk to your care team to discuss which exercises are appropriate for you.



Frequently Asked Questions

Q: Should I take my nausea medications when I'm not nauseous?

- It is important to take DECADRON (Dexamethasone) ***as scheduled*** despite having no symptoms of nausea. However, if you are not nauseous, you do not need to take your ***as needed*** medications.

Q: Who do I call for my pegfilgrastim (or biosimilar) refill?

- Please reach out to your specialty pharmacy listed on the pegfilgrastim (or biosimilar) label.

Q: Can I take herbal supplements and vitamins?

- Many herbal supplements may interact with medications. Please let your team know if you are currently or are planning to take any herbal products.



Frequently Asked Questions: What Can I Eat?

If you feel well:

Aim to eat a variety of foods high in nutrients including plenty of fruits, vegetables, whole grains and protein every 3-4 hours. These foods help your body rebuild tissues and keep your immune system strong. Stay well hydrated. Most people need between 2-3 liters, or 66-99oz per day, non-caffeinated fluids.

High protein food examples:

Meat, poultry, fish, eggs, seafood, lentils, beans, nuts, seeds, & unsweetened yogurts.



Frequently Asked Questions: What Can I Eat?

The day of chemo:

- 1) Come in well hydrated.
- 2) Eat a light meal:
 - Yogurt + fruit
 - Nut butter or an egg + toast
 - Oatmeal + nuts, fruit

If you are experiencing side effects including nausea, diarrhea/constipation, taste changes, mouth sores:

- See [massgeneral.org/cancer/nutrition](https://www.massgeneral.org/cancer/nutrition) for tips and recipes.
- Ask your care team to refer you to our Registered Dietitians.



Your Breast Cancer Team

- Oncologist
- Nurse Practitioner
- Pharmacist
- Oncology Social Worker
- Practice Nurse
- Infusion Nurse



When to call?

If experiencing:

- Fever of 100.4F (38C) or higher
- Chills
- Bleeding/unusual bruising
- Sore throat or trouble swallowing
- Dizziness
- Problems with urination
- Uncontrolled nausea, vomiting
- Uncontrolled diarrhea
- Flu-like symptoms
- Extreme fatigue or weakness
- Cough or shortness of breath
- Confusion or agitation
- Rapid heartbeat
- New swelling in arms/legs, face
- Uncontrolled pain or new pain
- COVID-19 or other infectious disease exposures



Contact Information

- For urgent matters, please call. For all other non-urgent matters, please use the patient portal
- Phone Numbers
 - Boston: 617-726-6500
 - Waltham: 781-487-6100
 - Danvers: 978-882-6060
- Patient Portal:
 - patientgateway.org





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