

# Inavolisib (Itovebi) Palbociclib (Ibrance) Fulvestrant (Faslodex)

**Oral Targeted Therapy Teaching** 

# Topics to Discuss

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What is oral targeted cancer therapy?

What are inavolisib, palbociclib, and fulvestrant?

How to take inavolisib and palbociclib

**Keeping Track of Your Medication** 

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# What is Oral Targeted Cancer Therapy?

- Oral targeted therapy is oral cancer therapy that is taken by mouth and comes in a tablet or capsule form.
- It may be prescribed along with other types of cancer therapies such as chemotherapy or hormone therapy.
- Oral targeted therapy "targets" the changes in cells that cause cancer.
- It can identify and attack certain types of cancer cells and can impact
  the environment in which a cancer cell grows, or it can target and alter
  cells that help cancer grow.

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### Treatment Regimen

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# What are Inavolisib, Palbociclib, and Fulvestrant?

- They are three separate medications that are used together as a treatment regimen.
- You may hear them referred to by their brand names:
  - Inavolisib (Itovebi)
  - Palbociclib (Ibrance)
  - Fulvestrant (Faslodex)
  - Fulvestrant will be given in clinic intramuscularly (into the muscle)
- Inavolisib and palbociclib are taken by mouth at home

# Inavolisib (Itovebi)

- Inavolisib belongs to a class of medications called phosphatidylinositol-3-kinase (PIK3CA) inhibitors and is a type of oral targeted therapy.
- It works by blocking the PIK3CA pathway, causing cancer cells to stop growing and die.
- How to take inavolisib:
  - Take the tablet(s) by mouth once daily, with or without food
    - Take tablets at the same time each day. Swallow the tablets whole with water. Do not break, chew, or crush the tablets.
    - If you miss a dose, take it as soon as you remember. You can take the missed dose up to 9 hours after the regularly scheduled dose time. After >9 hours, skip the missed dose and take the next dose at the normal scheduled time. Do not take 2 doses at the same time to make up for a missed dose. Do not take another dose if vomiting occurs.
    - You can take this medication at the same time as palbociclib

# Palbociclib (Ibrance)

- Palbociclib belongs to a class of medications called CDK4/6 inhibitors and is a type of oral targeted therapy.
- It works by blocking a protein called cyclin-dependent kinase 4 & 6 (CDK4/6) to disrupt breast cancer cell growth and slow tumor progression
- How to take palbociclib:
  - Take the tablet by mouth once daily, with or without food, for <u>21 days</u>, followed by a <u>7-day</u>
     <u>break</u> to complete a 28-day cycle
    - Take tablets at the same time each day. Swallow the tablets whole with water. Do not break, chew, or crush the tablets.
    - If you miss a dose, skip the dose and continue your regular dosing schedule. <u>Do not</u> take 2 doses at the same time to make up for the missed dose.
    - For more info: <a href="https://www.massgeneral.org/assets/mgh/pdf/cancer-center/breast-cancer/palbociclib.pdf">https://www.massgeneral.org/assets/mgh/pdf/cancer-center/breast-cancer/palbociclib.pdf</a>

# Fulvestrant (Faslodex)

- Fulvestrant is a hormonal therapy that binds to estrogen receptors on breast cancer cells and blocks estrogen. This causes the cancer to stop growing or shrink.
- This medication works with inavolisib and palbociclib to have an even greater effect on stopping growth of cancer cells.
- This medication will be given to you in clinic—you do not need a prescription for this medication
- Fulvestrant will be given intramuscularly (into the muscle) once every 2 weeks for the first 3 doses, and then monthly thereafter

# How to Keep Track of Your Oral Targeted Therapy Schedule

- Create a medicine calendar either on paper or in your tablet or phone to keep track
  of your doses.
- Share the calendar with your cancer treatment team at visits.
- Pill boxes can be used to keep track of your oral chemotherapy doses. Do not mix
  other pills in the box you use for your oral chemotherapy.



# Side Effects of Inavolisib, Palbociclib, and Fulvestrant

### Inavolisib

- Diarrhea
- High blood sugar
- Mouth sores
- Fatigue
- Nausea
- Rash
- Decreased appetite
- Headache
- Low blood counts
  - Decrease in white blood cells that fight infection
  - Decrease in red blood cells that deliver oxygen throughout the body

### **Palbociclib**

- Fatigue
- Nausea
- Diarrhea
- Headache
- Hair thinning
- Rash
- Cough
- Infections
- Low blood counts including white blood cells, red blood cells, and platelets (which help blood to clot)

### **Fulvestrant**

- Redness or irritation at the injection site
- Hot flashes
- Mild upset stomach
- Tiredness
- Muscle, joint, or bone pain



 Tell your treatment team of ALL prescription and over-the-counter medications (this includes vitamins and herbal products)

Some common interactions include:

- ☐ Ginseng supplements
- ☐ Red Clover

☐ St John's Wort

☐ Grapefruit, grapefruit juice, pomegranate juice

 Talk with your treatment team or pharmacist before starting any new medications or supplements 2

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# Managing High Blood Sugar (Hyperglycemia)

- Inavolisib can cause new or worsening high blood sugar. Tell your doctor if you have a history
  of high blood sugar or diabetes.
- Your blood sugar levels will be closely monitored by your treatment team.
  - Typically, this may occur once every 3 days for the first week, then once every week for the next 3 weeks, then once every 2 weeks for the next 8 weeks, then once every 4 weeks thereafter.
- You may be asked to check your blood sugar at home as well. Your treatment team will let you know if this is necessary.
- Some patients need to start medication, such as metformin, to help lower their blood sugar
  while taking inavolisib. Your treatment team will let you know if this is necessary.
- Consuming a diet low in carbohydrates is helpful to maintain control of your blood sugar while taking inavolisib.



# Treating Diarrhea

### Diet:

- Eat a bland diet that is easy to digest until diarrhea resolves
- BRAT diet: bananas, rice, applesauce, toast
- Do not eat high fiber foods (raw vegetables/fruits, whole grains, nuts, seeds, beans)
- Do not have dairy, alcohol, caffeine, spicy and fried foods

### **Stay Hydrated:**

- Drink 8-10 glasses (64-80 ounces) of non-caffeinated, non-carbonated beverages daily
- Gatorade, Pedialyte, or other beverages with electrolytes may be recommended with severe diarrhea

# Medication for Treating Diarrhea

- Imodium (loperamide) is the medication of choice to treat diarrhea. It is available over the counter.
- Instructions for use:
  - Take 2 tablets (4mg) with your first loose/watery stool
  - Then take 1 tablet (2mg) every 2-4 hours thereafter
  - Do not take more than 8 tablets (16mg) in 24 hours without contacting your doctor
- Contact your care team if you continue to experience diarrhea after taking Imodium for 24 hours
- Refer to <a href="https://www.massgeneral.org/assets/mgh/pdf/cancer-center/breast-cancer/bowel-management.pdf">https://www.massgeneral.org/assets/mgh/pdf/cancer-center/breast-cancer/bowel-management.pdf</a> for more information.

# **Preventing Mouth Sores**

- Perform good mouth care. Brush your teeth gently with a soft toothbrush after meals and before bed.
- Avoid mouthwashes that contain alcohol
- Drink water (at least 8 glasses per day) or spray your mouth with water throughout the day
- Suck on sugar-free candy or chew sugar-free gum
- Moisten lips with plan, non-medicated lip balm (avoid menthol)

## Medication to Prevent Mouth Sores

- Dexamethasone mouthwash will also be prescribed to prevent mouth sores.
- Instructions for use:
  - Swish 1 mg (10 mL) for 2 minutes and then spit, four times daily
  - Avoid food or drink within 1 hour after using the mouthwash
- Medication management
  - If you develop severe mouth pain or mouth pain that interferes with eating, drinking, or swallowing, we may prescribe a numbing mouth rinse or oral pain medication
  - Refer to <a href="https://www.massgeneral.org/assets/mgh/pdf/cancer-center/breast-cancer/mouth-care.pdf">https://www.massgeneral.org/assets/mgh/pdf/cancer-center/breast-cancer/mouth-care.pdf</a> for more information

# **Preventing 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

# Supportive Care Resources

- Yoga
- Acupuncture / Acupressure
- Massage
- Support groups
- Survivorship programs
- Workshops
- Music therapy, Art therapy
- To learn more about all our Supportive Care offerings log onto <u>cancercenterpx.org</u>



# Storage and Handling

- Keep these medicines in their original bottle or separate pill box do not mix other medications into the pill box.
- Store at room temperature in a dry location away from direct light.
- Keep these medicines out of reach from children and pets.
- Wash your hands before and after handling this these medicines.

# Disposal

- If you have unused medication, do not throw it in the trash and do not flush it down the sink/toilet.
- You may dispose of this medication by:
  - 1. Calling your city or county's trash and recycling service for information on hazardous drug take-back programs in your community.
  - 2. Bringing unused oral targeted therapy to MGH Boston and disposing in the blue drug take-back receptacles located outside of the Main Lobby Yawkey elevators or near the retail pharmacy in the Wang building.
  - 3. Asking your treatment team or pharmacist for more information.

# Sexuality and Birth Control

- It is fine to be sexually active while receiving inavolisib and palbociclib.
- Inavolisib and palbociclib can harm a developing baby. You should not get pregnant or get someone pregnant while on inavolisib or palbociclib.
- Use a reliable birth control during treatment and for at least 3 weeks after receiving the last dose of palbociclib and 1 week after receiving the last dose of inavolisib.
- Use a protective barrier such as a condom throughout palbociclib and inavolisib treatment. This is also to protect your partner from exposure through body fluids.

# Fertility

- Infertility means you cannot become pregnant or make someone pregnant. Infertility can be temporary or permanent.
- Palbociclib may affect fertility in men. Palbociclib has not been shown to affect fertility in women.
- There isn't enough information to know if inavolisib affects fertility. No studies have been conducted
  to evaluate the potential effects of fertility with inavolisib in humans.
- Do not breastfeed during treatment and for at least 3 weeks after receiving the last dose of palbociclib
  and 1 week after the last dose of inavolisib. This is to protect your infant from exposure
  through breast milk.
- Before starting treatment, talk with your treatment team about your fertility and what you can do.
  - Sperm banking for men and egg harvesting for women may be options before starting treatment.
  - Women can still get pregnant even if their menstrual period changes or stops. Always use a
    reliable form of birth control.

Important Phone Numbers

- 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
- Fasting blood sugar >160 mg/dL or signs of high blood sugar (excessive thirst, dry mouth, increased appetite with weight loss, and increased urination)
- 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

# Mass General Brigham