

# Medical Oncology

## Drug Information Sheet

***Ibrutinib (Imbruvica)***: a drug to treat your cancer.

### What should I avoid while taking *Ibrutinib (Imbruvica)*?

- Do not eat grapefruit or drink grapefruit juice while taking *Ibrutinib (Imbruvica)*.
- Do not eat Seville oranges (often used in marmalades) while taking *Ibrutinib (Imbruvica)*.
- Do NOT use Echinacea.
- Do NOT use flax seed oil.
- Do not take St. John's Wort with this drug.
- Avoid the use of Vitamin E.

### Dose and Schedule:

- You will take this medicine by mouth.
- *Ibrutinib (Imbruvica)* should be taken at the same time every day (morning or evening).
- *Ibrutinib (Imbruvica)* may be taken with or without food.
- Take *Imbruvica (Imatinib)* with food if your stomach becomes upset.
- Keep taking this drug as you have been told by your doctor or other health care provider, even if you feel well.
- Swallow the tablets whole with water. Do not crush, open, break, chew or dissolve the medicine in water.
- If you have any unused *Ibrutinib (Imbruvica)*, do not throw it in the trash and do not flush it down the sink or toilet. Talk to your doctor or pharmacist about proper disposal of *Ibrutinib (Imbruvica)*.
- *Ibrutinib (Imbruvica)* has many drug interactions. Tell your doctor all the prescription medicines, over-the-counter medicines, vitamins, and herbal products you are taking.
- Your doctor may change your dose, briefly stop or completely stop treatment with *Ibrutinib (Imbruvica)* if you have side effects.
- **DO NOT START A NEW CYCLE WITHOUT TALKING TO YOUR DOCTOR FIRST.**
- Capsules should not be opened. If capsules are accidentally opened or damaged, do not inhale contents or allow contents to come into contact with the skin or mucous membranes.
- If the inside contents are touched or they get in the eyes, wash hands or eyes right away.
- If the inside contents are accidentally inhaled, move to fresh air and call your doctor right away.

### If you miss a dose of *Ibrutinib (Imbruvica)*

- Take missed dose on the same day as soon as you think about it. Return to normal schedule the following day.
- Do not take an extra dose or two doses at one time.
- If vomiting occurs after taking a dose, take the next dose at the scheduled time.
- Write down if you miss a dose and let your doctor know about any missed doses.

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Storage and Handling:	
<ul style="list-style-type: none"> <li>• Depending on your insurance, <i>Ibrutinib (Imbruvica)</i> may come from your regular pharmacy or from a special pharmacy through the mail. We will help you through the process.</li> <li>• The drug must be kept in a secure place out of reach of children and pets, so no one else can take this drug. Never share <i>Ibrutinib (Imbruvica)</i> with anyone else.</li> <li>• Store <i>Ibrutinib (Imbruvica)</i> at room temperature in a dry place and away from light. Do not store in a bathroom.</li> <li>• Keep in original bottle: do NOT place tablets in a pillbox.</li> </ul>	
<ul style="list-style-type: none"> <li>• Whenever possible, give <i>Ibrutinib (Imbruvica)</i> to yourself and follow the steps below. If a family member, friend or caregiver gives <i>Ibrutinib (Imbruvica)</i> to you, they also need to follow these steps:               <ul style="list-style-type: none"> <li>○ Wash hands with soap and water.</li> <li>○ Put on gloves to avoid touching the medicine (gloves are not needed if you give <i>Ibrutinib (Imbruvica)</i> to yourself).</li> <li>○ Do not let women who are pregnant or who may get pregnant touch the tablets without wearing gloves.</li> <li>○ Carefully remove <i>Ibrutinib (Imbruvica)</i> from its package to a small disposable cup.</li> <li>○ Do not lay the medicine on the counter.</li> <li>○ Take the medicine immediately by mouth with water.</li> <li>○ Remove gloves and do not use them for anything else.</li> <li>○ Throw gloves and disposable cup in household trash.</li> <li>○ Wash hands with soap and water.</li> <li>○ Do not touch or handle crushed or broken tablets.</li> </ul> </li> </ul>	

You **MAY OR MAY NOT** experience the side effects listed below

Possible Side Effects:	What to do:
<p><b>Increased risk for infection due to decreased blood counts</b></p>	<ul style="list-style-type: none"> <li>• Avoid contact with people who have infections, colds or flu.</li> <li>• Wash your hands often.</li> <li>• Report chills or a fever of 100.4° or higher to your doctor right away, day or night.</li> <li>• Report any signs or symptoms of infection, such as cough, burning with urination, skin redness or sores.</li> <li>• Call your doctor before taking any medicine for a fever or chills.</li> </ul>
<p><b>Lower than normal red blood cells</b></p> <p>Anemia</p>	<p>Call you doctor if you have:</p> <ul style="list-style-type: none"> <li>○ shortness of breath with activity</li> <li>○ fatigue</li> <li>○ dizziness</li> <li>○ fast heartbeat or a heartbeat that does not feel normal</li> <li>○ headache</li> </ul>

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Possible Side Effects:	What to do:
<b>Increased risk for bleeding</b>	<ul style="list-style-type: none"> <li>• Call your doctor if you have signs of bleeding:               <ul style="list-style-type: none"> <li>○ bad headache, dizziness or weakness</li> <li>○ coughing up blood or blood clots</li> <li>○ vomiting blood or your vomit looks like coffee grounds</li> <li>○ red or black stools that look like tar or are sticky</li> <li>○ menstrual bleeding that is heavier than normal</li> <li>○ unusual or heavy bleeding that you cannot stop</li> </ul> </li> <li>• Avoid taking aspirin or aspirin products unless your doctor tells you to take it.</li> <li>• Use soft toothbrush.</li> <li>• Use electric razor.</li> <li>• Talk to your doctor before any scheduled medical or dental procedures.</li> <li>• Tell your doctor before you have any surgery. <i>Ibrutinib (Imbruvica)</i> may be stopped before or after any surgery procedure.</li> </ul>
<b>Fluid retention or swelling</b>	<ul style="list-style-type: none"> <li>• Do not stand for long periods of time</li> <li>• Keep your legs elevated when sitting or lying down.</li> <li>• Avoid eating salty foods, which can increase swelling.</li> <li>• Avoid wearing tight-fitting clothes and shoes</li> <li>• Call your doctor right away if you:               <ul style="list-style-type: none"> <li>○ notice swelling in your body, especially in your hands, legs or feet.</li> <li>○ shortness of breath or trouble breathing</li> <li>○ have a dry cough</li> <li>○ have chest pain when taking a deep breath.</li> <li>○ gain 5 pounds or more in one week.</li> </ul> </li> </ul>
<b>Diarrhea</b>	<ul style="list-style-type: none"> <li>• Keep well hydrated with water or fluids.</li> <li>• Take over the counter anti-diarrhea medicine (Immodium A-D™ or loperamide HCL). Use the “<i>Helpful Tips for Diarrhea after Chemotherapy or Radiation Therapy</i>” instruction sheet.</li> <li>• Call your doctor if you have:               <ul style="list-style-type: none"> <li>○ More than 4 loose stools in 24 hours</li> <li>○ A fever of 100.4° or higher</li> <li>○ bad stomach pain or cramps</li> <li>○ dizziness or feel faint</li> <li>○ bloody stools (dark, tarry or sticky)</li> </ul> </li> </ul>
<b>Nausea/vomiting Decreased appetite</b>	<ul style="list-style-type: none"> <li>• Take nausea medicine as instructed. Let your doctor know if it is not working for you.</li> <li>• Eat smaller, frequent meals.</li> <li>• Try liquid nutrition supplements (Boost, Ensure).</li> <li>• A dietitian is available to talk with you.</li> </ul>
<b>Bone, muscle, joint pain</b>	<ul style="list-style-type: none"> <li>• Use pain prescription as directed. Notify your doctor if the pain is uncontrolled.</li> </ul>

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Possible Side Effects:	What to do:
<b>Fatigue or weakness</b>	<ul style="list-style-type: none"> <li>You may be more tired than usual or have less energy.</li> <li>Stay as active as possible, but know it is okay to rest as needed.</li> <li>Try to do some activity every day.</li> <li>Plan your activities, and do them at a time of day when you feel more energetic.</li> <li>Avoid driving or doing other tasks that call for you to be alert.</li> </ul>
<b><i>Ibrutinib (Imbruvica)</i> will be in urine and stool for 48 hours.</b>	<ul style="list-style-type: none"> <li>Caregivers will need to handle soiled linens and clothing wearing gloves or using a bag as a barrier.</li> <li>Keep your soiled items separate from others' dirty laundry and wash right away.</li> <li>Women who are pregnant should not handle your soiled clothing or linens.</li> <li>Wash any skin that body waste has touched with soap and water.</li> <li>You may use the same toilet that you normally use.</li> <li>If the toilet or toilet seat becomes dirty with urine, stool or vomit, clean the surfaces before other people use the toilet</li> <li>Wash hands with soap and water after using the toilet.</li> <li><b>It is safe to hug and kiss.</b></li> </ul>
<b>Avoid pregnancy</b>	<ul style="list-style-type: none"> <li>This drug may cause harm to the unborn baby if you take it while you are pregnant. If you are pregnant or you get pregnant while taking this drug, call your doctor right away.</li> <li>Use birth control that you can trust to prevent pregnancy while taking this drug and for <b>1</b> month after stopping this drug.</li> <li>If you or your sex partner gets pregnant while taking this drug or within <b>1</b> month after stopping this drug, call your doctor right away.</li> <li>May cause fertility problems.</li> </ul>

### Less common side effects that may happen

Less common side effects	What to do:
<b>May cause dizziness</b>	<ul style="list-style-type: none"> <li>Have someone drive you home.</li> <li>Change positions slowly</li> <li>Avoid driving or doing other tasks that call for you to be alert</li> </ul>
<b>Increased sensitivity to Light</b>	<ul style="list-style-type: none"> <li>Avoid the sun, sunlamps and tanning beds.</li> <li>Use sunscreen when outside.</li> <li>Wear a hat when outside.</li> <li>Wear long sleeves and pants to block the sun.</li> <li>Wear eyewear that protects your eyes from the sun.</li> </ul>

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Less common side effects	What to do:
<b>Heart problems</b>	<ul style="list-style-type: none"> <li>• Tell your doctor if you take any heart or blood pressure medicines.</li> <li>• Call 911 or go to the Emergency Room right away if you have:               <ul style="list-style-type: none"> <li>○ Fast heartbeat or a heartbeat that does not feel normal</li> <li>○ Trouble breathing or shortness of breath</li> <li>○ Chest discomfort</li> </ul> </li> <li>• Call your doctor right away if you have:               <ul style="list-style-type: none"> <li>○ Increased or unexplained cough</li> <li>○ Swelling in feet or legs</li> <li>○ Sudden weight gain of more than 3 pounds in a day.</li> </ul> </li> </ul>
<b>High Blood Pressure</b>	<ul style="list-style-type: none"> <li>• Let your primary care doctor know that you are taking <i>Ibrutinib (Imbruvica)</i>.</li> <li>• Your blood pressure will be checked.</li> <li>• Contact your doctor if you have:               <ul style="list-style-type: none"> <li>○ headaches</li> <li>○ shortness of breath</li> <li>○ nosebleeds</li> <li>○ dizziness or passing out</li> <li>○ change in eyesight</li> </ul> </li> </ul>
<b>PML</b> Rare infection that damages nerves	<p>Call your doctor if you have:</p> <ul style="list-style-type: none"> <li>○ general weakness that steadily gets worse</li> <li>○ clumsiness and balance issues or difficulty walking</li> <li>○ sensory loss</li> <li>○ difficulty using your arms and legs</li> <li>○ loss of vision</li> <li>○ trouble speaking</li> <li>○ weak muscles</li> <li>○ facial drooping</li> <li>○ personality changes</li> <li>○ memory problems and mental slowness</li> </ul>
<b>Kidney toxicity (rare)</b>	<ul style="list-style-type: none"> <li>• To help maintain good kidney function, stay well hydrated with water and non-caffeine liquids.</li> <li>• Call you doctor if you:</li> <li>• have severe swelling (edema), especially around your eyes and in your ankles and feet</li> <li>• have foamy urine (protein in your urine)</li> <li>• have weight gain of more than 3 pounds in a day</li> </ul>
<b>Blood thinners</b>	<ul style="list-style-type: none"> <li>• If you are taking blood thinners, talk with your doctor. You may need to have your blood work checked more closely while you are taking it with this medicine.</li> </ul>
<b><i>Digoxin (lanoxin)</i> dosing</b>	<ul style="list-style-type: none"> <li>• If you are taking <i>Digoxin (lanoxin)</i>, talk with your doctor. You may need to have your blood work checked more closely while you are taking it with this medicine.</li> </ul>

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Less common side effects	What to do:
<p><b>Tumor Lysis Syndrome</b> Caused by rapid tumor cell death</p>	<ul style="list-style-type: none"> <li>• Drink plenty of caffeine free fluids to stay well hydrated</li> <li>• Call your doctor right away if you:               <ul style="list-style-type: none"> <li>○ have a fast heartbeat or a heartbeat that does not feel normal</li> <li>○ pass out</li> <li>○ have trouble passing urine</li> <li>○ have muscle weakness or cramps</li> <li>○ have an upset stomach</li> <li>○ are throwing up</li> <li>○ have loose stools</li> <li>○ fever</li> <li>○ chills</li> <li>○ confusion</li> <li>○ shortness of breath</li> <li>○ seizure</li> <li>○ dark or cloudy urine</li> <li>○ unusual tiredness</li> </ul> </li> </ul>
<p><b>New Primary cancers including skin cancers</b></p>	<p>Call your doctor right away if you have any of the following:</p> <ul style="list-style-type: none"> <li>○ unexplained weight loss</li> <li>○ fever</li> <li>○ extreme tiredness that doesn't get better with rest</li> <li>○ unexplained pain</li> <li>○ changes in bowel or bladder habits</li> <li>○ sores that do not heal</li> <li>○ unusual bleeding or discharge</li> <li>○ trouble swallowing</li> <li>○ cough or hoarseness that does not go away</li> </ul>
<p><b>Bleeding problems</b></p>	<ul style="list-style-type: none"> <li>• Call your doctor if you have signs of bleeding:           <ul style="list-style-type: none"> <li>○ bad headache, dizziness or weakness</li> <li>○ coughing up blood or blood clots</li> <li>○ vomiting blood or your vomit looks like coffee grounds</li> <li>○ red or black stools that look like tar or are sticky</li> <li>○ menstrual bleeding that is heavier than normal</li> <li>○ unusual or heavy bleeding that you cannot stop</li> </ul> </li> <li>• Tell your doctor before you have any surgery. <i>Ibrutinib (Imbruvica)</i> may be stopped before or after any surgery procedure.</li> </ul>
<p><b>These are not all of the side effects that may occur. If you have questions about side effects, call your doctor.</b></p>	