Relapsed or Refractory Chronic-Phase CHRONIC MYELOID LEUKEMIA (CML)

Relapsed	Resistant	Refractory
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CML that has come back after responding to treatment.	CML not responding to the current treatment.	CML that is resistant to treatment from the start or becomes resistant.

Early Response Milestones

It is important to take the correct dose of your medicine at the correct time. **Do not miss doses or take an extra dose**.

Months After Starting Treatment	3	6	12	<u>></u> 15
BCR-ABL1 ^{IS} over 10%	Possible TKI Resistance	TKI Resistance		
BCR-ABL1 ¹⁵ between 1% and 10%			Possible TKI Resistance	TKI Resistance

The *BCR-ABL1*^{IS} score uses a standardized baseline of 100%. This is the starting point or value that your results are measured against. Response milestones are measured as the percentage of cells with *BCR-ABL1* that remain after treatment. The goal is to get as close to zero as possible.

If certain milestones are not met, your CML may be resistant to the tyrosine kinase inhibitor (TKI) you are currently taking. **Tell your doctor about**:

- Missed or skipped doses.
- Other medicines, including over-the-counter drugs, supplements, or herbs.

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- If milestones are not met or there are signs of decreased response, your doctor may order a test to detect new *BCR-ABL1* mutations.
- Certain *BCR-ABL1* mutations can make your current medication less effective. If they are found, your doctor may suggest a change in treatment.



- Imatinib Mesylate (Gleevec[®])
- Dasatinib (Sprycel[®])

Ireatment

- Nilotinib (Tasigna[®])
- Bosutinib (Bosulif[®])
- Ponatinib (Iclusig[®])

Other options that may be used in certain circumstances include:

- Omacetaxine Mepesuccinate (Synribo®)
- Interferon
- Allogeneic stem cell transplant
- Clinical trial

If your CML has developed a resistance mutation, some treatments may not work. Your doctor will help you select appropriate treatment.

SIDE EFFECTS ASSOCIATED WITH TKIs

	Most Common Side Effects	Warnings and Precautions	
Imatinib Mesylate (GLEEVEC®)	 Fluid retention Nausea Vomiting Muscle cramps Bone pain Diarrhea Rash 	 Severe fluid retention Low blood counts Heart problems Liver damage Severe bleeding Kidney problems 	
Dasatinib (Sprycel®)	 Fluid retention Diarrhea Bone pain Rash Headache Stomach pain Fatigue 	 Low blood counts and bleeding Fluid retention Heart problems High blood pressure in the arteries of the lungs 	
Nilotinib (Tasigna®)	 Rash Headache Nausea Cold symptoms Fatigue Joint pain Fever 	 Low blood counts Heat problems Blood clots Inflammation of the pancreas Liver damage Severe bleeding Fluid retention 	
Bosutinib (Bosulif®)	 Diarrhea Nausea Rash Stomach pain Headache Fatigue Vomiting 	 Gastrointestinal toxicity Low blood counts Liver damage Heart problems Fluid retention Kidney damage 	
Ponatinib (Iclusig®)	 Rash High blood pressure Joint pain High cholesterol Stomach pain Headache Narrowing of the arteries 	 Blood clots or blockages in arteries/veins Heart and liver problems Inflammation of the pancreas Nerve damage Serious eye problems Severe bleeding Fluid retention 	

Low blood counts

Impaired wound healing

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