

ELN Guidelines for CML 2020 vs 2013

The 2020 guidelines include some significant changes since the previous version, published in 2013. Use this quick reference guide to help identify updates and key differences from the 2013 guidelines.

Baseline diagnostics							
2013	2020	2020					
Prognostic system to predict probabilit	y of dying from CML at die	agnosis					
	ELTS prognostic system ² ELTS score apportions fev	ELTS prognostic system ² ELTS score apportions fewer patients into high- and intermediate-risk groups than the Sokal score ²					
	Risk strata proportions o	Risk strata proportions and outcome ²					
Sokal, Euro, and EUTOs prognostic systems ¹		Low Risk		Intermediate Risk High Risk			
		Sokal	ELTS	Sokal	ELTS	Sokal	ELTS
		38	55	38	28	23	13
	• •	89 3	88	81	79 5	75 8	12
Detailed diagnostic work-up	7 7 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	_	<u> </u>	1 -	1 -	1 -	1 1-
Not included ¹		A diagnostic work-up completed by a physical examination performed at baseline to measure spleen and liver size, standard biochemical profile including hepatitis B serology, cholesterol, lipase and HbA1c values, and an electrocardiogram ²					
Cost effectiveness							
2013	2020	2020					
Not included ¹	Now includes a section fo	Now includes a section for cost effectiveness to address concerns regarding TKI and costs ²					
Early treatment milestones							
2013	2020						
Definition of treatment failure mandating a change in treatment							
>10% BCR-ABL1 transcript levels at 6 months ¹	>10% BCR-ABL1 transcrip	>10% BCR-ABL1 transcript levels at 3 months if confirmed within 1-3 months ²					
BCR-ABL1 resistance mutations							
Not included ¹	Recommendations for TK	Recommendations for TKIs in case of BCR-ABL1 resistance mutations are included ²					
Treatment-free remission (TFR)							
2013	2020						
Not included ¹	in appropriate patients a	TFR is included as a new significant goal of CML management. The guidelines recommend consideration of TFR in appropriate patients after careful discussion employing the concept of shared decision making. The panel's recommendations for TKI discontinuation are summarized below ² :					
	Requirements for T	Requirements for TKI discontinuations ²					
	Mandatory	MotivoAccessPatien	 CML in first CP only (data are lacking outside this setting) Motivated patient with structured communication Access to high-quality quantitative PCR using the IS with rapid turnaround of PCR test result Patient's agreement to more frequent monitoring after stopping treatment. This means mo for the first 6 months, every 2 months for months 6–12, and every 3 months thereafter 			This means monthly	
	Minimal (stop allowed)	TypicaDuratiDurati	 First-line therapy or second-line if intolerance was the only reason for changing TKI Typical e13a2 or e14a2 BCR-ABL1 transcripts Duration of TKI therapy >5 years (>4 years for second-generation TKI) Duration of DMR (MR^a or better) >2 years No prior treatment failure 			ng TKI	
	Optimal (stop recommende for consideration)	ad l	on of TKI therapy > on of DMR >3 years	-			

for consideration)

ullet Duration of DMR >2 years if MR^{4.5}



ELN Guidelines for CML 2020 vs 2013

Treatment recommendations		
2013	2020	
First line		
• Imatinib¹ • Dasatinib¹ • Nilotinib¹	Imatinib² Dasatinib² Nilotinib² Generic imatinib² UPDATED Bosutinib² UPDATED	
Generics		
Not included ¹	Now includes a dedicated section on generics. Generic imatinib, now available worldwide, has been included as a first-line recommendation. Monitoring the response to generics must be the same as with branded drugs. If a patient is changed from a branded to a generic product, then enhanced vigilance for the first 6 months in terms of sustaining response and observing for new adverse events is advisable ²	
Second line and subsequent lines		
Imatinib¹ Dasatinib¹	The criteria for the choice of the second-line TKI are almost entirely patient related and depend on factors such as age, comorbidities, and toxicity of first TKI	
 Nilotinib¹ Bosutinib: recommended for patients intolerant of imatinib or in whom imatinib treatment failed¹ Ponatinib: only recommended for second line in patients who had failed previous TKI therapy or carry the T315I mutation¹ 	 Imatinib² Dasatinib² Nilotinib² Bosutinib: now included as a second-line recommendation independent of prior resistance of intolerance² UPDATED Note: Ponatinib is no longer a second-line recommendation, and has been moved to the "treatment beyond second line" section² 	

Guidance for first-line agents based on comorbidities and contraindications

The 2020 ELN Guidelines also included recommendations on appropriate TKI considerations based on patient comorbidities and TKI contraindications. Click on the links to learn about recommendations for each of the specific TKIs:

Imatinib	Nilotinib	Dasatinib	Bosutinib	Ponatinib
2013	2020			
Not included ¹	The following	The following pages outline considerations around contraindications and comorbidities for TKIs approved for use in CML. ²		

TKI=tyrosine kinase inhibitor.



Imatinib

Summary of ELN recommendations on appropriate TKI considerations based on patient comorbidities

2020

Previous or concomitant diseases	Imatinib		
Cardiovascular risk factors	No relevant restriction		
Peripheral arterial disease	No relevant restriction		
Arterial hypertension	No relevant restriction		
Arteriosclerosis	No relevant restriction		
Lung disease (eg, pleural effusion, respiratory failure)	No relevant restriction		
Pulmonary arterial hypertension	No relevant restriction		
Pericarditis	No relevant restriction		
Autoimmune diseases	No relevant restriction		
Hypercholesterolemia	No relevant restriction		
Diabetes mellitus	No relevant restriction		
Pancreatitis	No relevant restriction		
Liver disease	No relevant restriction		
Diarrhea / inflammatory bowel disease	No relevant restriction		
Renal failure	With limitation		

GFR=glomerular filtration rate.



Nilotinib

Summary of ELN recommendations based on TKI contraindications 2020 TKI ELN recommendations¹ Contraindications Strong contraindications • History of coronary heart disease Other high-risk conditions Hypertension History of cerebrovascular accidents • Hypercholesterolemia • SmPC: Hypersensitivity to the active substance or to any of the excipients² Nilotinib • History of peripheral AOD • Diabetes mellitus • PI: Hypokalemia, hypomagnesemia, long QT syndrome³ Contraindications Pancreatitis history

Summary of ELN recommendations on appropriate TKI considerations based on patient comorbidities

2020

Previous or concomitant diseases	Nilotinib
Cardiovascular risk factors	With limitation
Peripheral arterial disease	Strong contraindication
Arterial hypertension	With limitation
Arteriosclerosis	Strong contraindication
Lung disease (eg, pleural effusion, respiratory failure)	No relevant restriction
Pulmonary arterial hypertension	No relevant restriction
Pericarditis	No relevant restriction
Autoimmune diseases	No relevant restriction
Hypercholesterolemia	With limitation
Diabetes mellitus	With limitation
Pancreatitis	Strong contraindication
Liver disease	With limitation
Diarrhea / inflammatory bowel disease	No relevant restriction
Renal failure	No relevant restriction

AOD=arterial occlusive disease.



Dasatinib

Summary of ELN recommendations based on TKI contraindications 2 0 2 0 TKI ELN recommendations¹ Contraindications Strong contraindications • Respiratory failure • Previous or concomitant pleuropulmonary disease • Previous or concomitant pericardial disease • Previous or concomitant pericardial disease

Summary of ELN recommendations on appropriate TKI considerations based on patient comorbidities

2020

Previous or concomitant diseases	Dasatinib
Cardiovascular risk factors	No relevant restriction
Peripheral arterial disease	No relevant restriction
Arterial hypertension	With limitation (risk of pleural effusion)
Arteriosclerosis	With limitation (risk of pleural effusion)
Lung disease (eg, pleural effusion, respiratory failure)	Strong contraindication
Pulmonary arterial hypertension	With limitation
Pericarditis	Strong contraindication
Autoimmune diseases	With limitation (risk of pleural effusion)
Hypercholesterolemia	With limitation (risk of pleural effusion)
Diabetes mellitus	No relevant restriction
Pancreatitis	No relevant restriction
Liver disease	No relevant restriction
Diarrhea / inflammatory bowel disease	No relevant restriction
Renal failure	No relevant restriction



Bosutinib

Summary of ELN recommendations based on TKI contraindications 2 0 2 0 TKI ELN recommendations¹ Contraindications SmPC: Hypersensitivity to the active substance or to any of the excipients, hepatic impairment² PI: Hypersensitivity to bosutinib³

Summary of ELN recommendations on appropriate TKI considerations based on patient comorbidities

2020

Previous or concomitant diseases	Bosutinib
Cardiovascular risk factors	No relevant restriction
Peripheral arterial disease	No relevant restriction
Arterial hypertension	No relevant restriction
Arteriosclerosis	No relevant restriction
Lung disease (eg, pleural effusion, respiratory failure)	No relevant restriction
Pulmonary arterial hypertension	No relevant restriction
Pericarditis	No relevant restriction
Autoimmune diseases	No relevant restriction
Hypercholesterolemia	No relevant restriction
Diabetes mellitus	No relevant restriction
Pancreatitis	With limitation
Liver disease	With limitation
Diarrhea / inflammatory bowel disease	With limitation
Renal failure	No relevant restriction

Click here for the BOSULIF SmPC



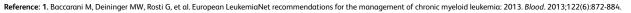
Ponatinib

Only recommended for second line in patients who had failed previous TKI therapy or carry the T315I mutation.¹

ELN recommendations on TKI contraindications only covered TKI agents approved for 1L, and therefore excluded ponatinib.

Summary of ELN recommendations on appropriate TKI considerations based on patient comorbidities			
2020			
Previous or concomitant diseases	Ponatinib		
Cardiovascular risk factors	With limitation		
Peripheral arterial disease	Strong contraindication		
Arterial hypertension	With limitation		
Arteriosclerosis	Strong contraindication		
Lung disease (eg, pleural effusion, respiratory failure)	No relevant restriction		
Pulmonary arterial hypertension	No relevant restriction		
Pericarditis	No relevant restriction		
Autoimmune diseases	No relevant restriction		
Hypercholesterolemia	No relevant restriction		
Diabetes mellitus	With limitation		
Pancreatitis	No relevant restriction		
Liver disease	No relevant restriction		
Diarrhea / inflammatory bowel disease	No relevant restriction		
Renal failure	No relevant restriction		

< Back to Menu



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