

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						
Prognostic system to predict probability	of dying from CML at d	iagnosis					
		ELTS prognostic system ² ELTS score apportions fewer patients into high- and intermediate-risk groups than the Sokal score ²					
	Risk strata proportions	Risk strata proportions and outcome ²					
Sokal, Euro, and EUTOs prognostic systems ¹		Low Risk		Intermediate R	isk	High Risk	
	n=5154	Sokal	ELTS	Sokal	ELTS	Sokal	ELTS
	%	38	55	38	28	23	13
	10-year OS, % 6-year LRD, %	3	88	81	79 5	75 8	68 12
Detailed diagnostic work-up	o year inc, n		_		1 -	10	1
Not included ¹	A diagnostic work-up cor biochemical profile inclu						
Cost effectiveness							
2013	2020						
Not included ¹	Now includes a section f	or cost effective	ness to address co	oncerns regardin	g TKI and costs²		
Early treatment milestones							
2013	2020	2020					
Definition of treatment failure mandati	ng α chαnge in treatmer	nt					
>10 % BCR-ABL1 transcript levels at 6 months1	>10% BCR-ABL1 transcr	>10% BCR-ABL1 transcript levels at 3 months if confirmed within 1-3 months²					
BCR-ABL1 resistance mutations	'						
Not included ¹	Recommendations for T	Recommendations for TKIs in case of BCR-ABL1 resistance mutations are included ²					
Treatment-free remission (TFR)							
2013	2020						
	in appropriate patients o	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	Requirements for TKI discontinuations ²					
Not included ¹	Mandatory	MotivatAccess tPatient	 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 results Patient's agreement to more frequent monitoring after stopping treatment. This means more for the first 6 months, every 2 months for months 6–12, and every 3 months thereafter 			means monthly	
	Minimal (stop allowed)	TypicalDuratio	 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 (MR⁴ or better) >2 years No prior treatment failure 			KI	
	Optimal (stop recommend for consideration)		n of TKI therapy >! n 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 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 Nilotin	b Dasatinib	Bosutinib	Ponatinib
2013	2020		
Not included ¹	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 recommendations ¹		Contraindications
Nilotinib	Strong contraindications History of coronary heart disease History of cerebrovascular accidents History of peripheral AOD Contraindications Pancreatitis history	Other high-risk conditions • Hypertension • Hypercholesterolemia • Diabetes mellitus	• SmPC: Hypersensitivity to the active substance or to any of the excipients ² • PI: Hypokalemia, hypomagnesemia, long QT syndrome ³

Summary of ELN recommendations on appropriate TKI considerations based on patient comorbidities 2020 Nilotinib Previous or concomitant diseases 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

No relevant restriction

AOD=arterial occlusive disease.

Renal failure



Dasatinib

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			
2020	2020		
TKI	ELN recommendations ¹	Contraindications	
Bosutinib	No relevant comorbidities or strong contraindications	• SmPC: Hypersensitivity to the active substance or to any of the excipients, hepatic impairment ² • PI: Hypersensitivity to bosutinib ³	

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

Austrian SmPC is available at the booth



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		
Summary of ELIV recommendations on appropriate TRI 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	

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Reference: 1. Baccarani M, Deininger MW, Rosti G, et al. European LeukemiaNet recommendations for the management of chronic myeloid leukemia: 2013. Blood. 2013;122(6):872-884.

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