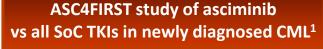


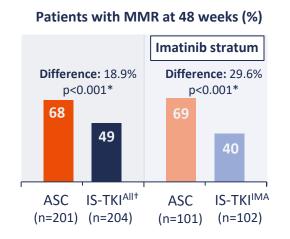
Optimizing treatment of CML in the first-line setting and beyond: Insights from EHA 2024 and ESH-iCMLf 2024

Fact sheet for CML

For more information, visit: www.touchHAEMATOLOGY.com

What are the latest data for approved and emerging TKIs for CML in the first-line setting?

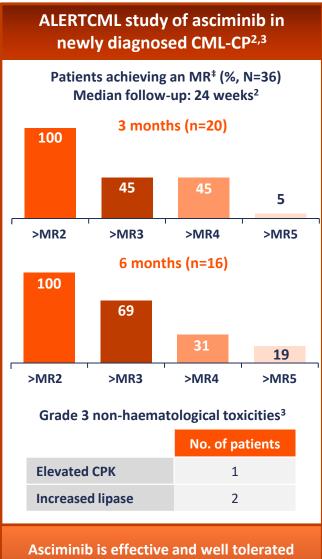




Safety and tolerability

	•	•	
AEs, %	Asciminib (n=200)	2G-TKIs (n=102)	Imatinib (n=99)
Grade ≥3	38	55	44
Leading to discontinuation	5	10	11
Leading to dose adjustment/ interruption	30	53	39

Asciminib demonstrated superior efficacy vs 2G-TKIs and imatinib in newly diagnosed CML, with acceptable safety and tolerability



in the first-line setting

Study of ponatinib in newly diagnosed CML-CP4

Patients achieving CCyR and MMR (%, N=51) Median time on therapy: 13 months



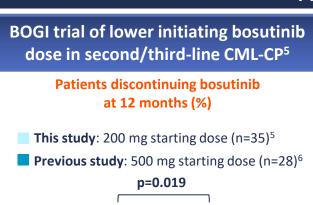
Safety and tolerability	%
CV SAEs	16
Dose reduction due to CV AEs	
Permanent discontinuation due to CV AEs	

Ponatinib was associated with high CCyR and MR rates in newly diagnosed CML-CP but CV toxicity posed a challenge for its first-line use

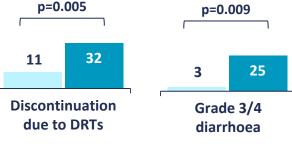
^{*}Estimated using the Mantel-Haenszel method after stratifying for prerandomization-selected TKI and baseline ELTS risk groups (both IRT data). Adjusted 1-sided p-value calculated based on the graphical gatekeeping procedure. †Imatinib (n=102) + 2G-TKI (n=102; nilotinib, 48%; dasatinib, 41%; and bosutinib, 11%). ‡MR2, BCR::ABL ≤1%; MR3, BCR::ABL ≤0.1%; MR4, BCR::ABL ≤0.01%; MR5, BCR::ABL ≤0.001%.



What are the latest data for approved and emerging TKIs for CML in the second- and later-line settings?







Cumulative incidence of response at 12 months

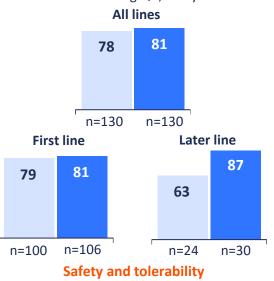
MMR: 23 (66%) DMR: 15 (43%)

The lower initiating bosutinib dose reduced the drug discontinuation rate due to severe DRTs, while maintaining clinical efficacy

DasaHIT trial of dasatinib tolerability with weekend holidays vs 7-day dosing⁷

Patients achieving MMR at 24 months (%)

- **Experimental arm:** 100 mg QD, 5 + 2 days' rest
- Standard arm: 100 mg QD, 7 days



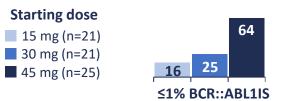
Safety and tolerability				
	Exp. arm	Stand. arm		
Median cTS, n	2	2		
Pleural and pericardial effusions, %	8	16		

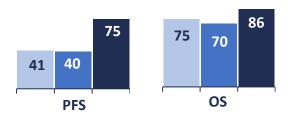
Dose modification of dasatinib improved safety. While efficacy was maintained in the first line; later-line patients benefitted more from continuous dosing

OPTIC trial of ponatinib in patients with CML-CP and the T315I mutation⁸

Efficacy in patients with the T315I mutation (%, N=67)⁹

Median follow-up 60.6–63.5 months⁸





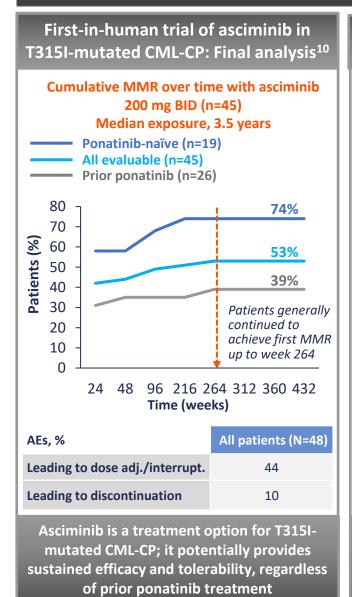
Safety and tolerability8

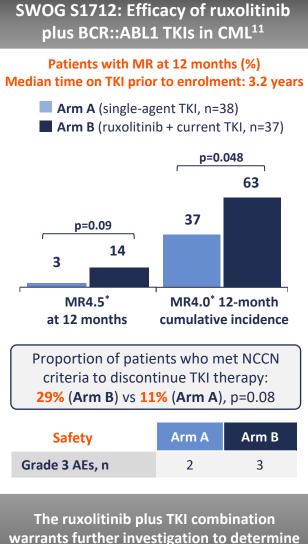
AEs, %	15 mg (n=21)	30 mg (n=21)	45 mg (n=25)
Grade ≥3 TEAE	38	38	60
TEAEs leading to discontinuation	5	14	8
TE-AOE	5	14	8

The optimal ponatinib benefit:risk ratio was achieved with a starting dose of 45 mg QD, reducing to 15 mg QD on attaining ≤1% BCR::ABL1IS

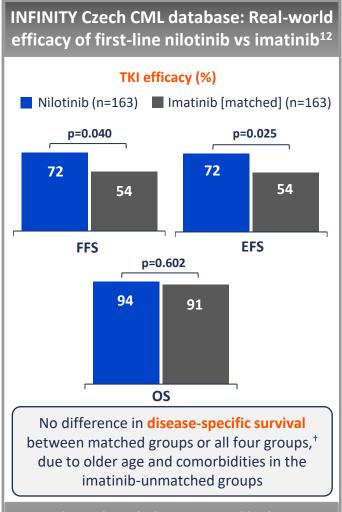


What are the emerging findings from clinical trials and real-world studies?





if it could lead to higher TFR rates



First-line nilotinib demonstrated higher FFS and EFS but did not show any benefit for OS.

Imatinib is still an effective choice for first-line treatment of CML-CP

Abbreviations and references

Abbreviations

2G, second generation; AE, adverse event; adj., adjustment; ASC, asciminib; BCR::ABL1IS, BCR::ABL1 International Scale; BID, twice daily; CCyR, complete cytogenetic response; CML, chronic myeloid leukaemia; CML-CP, CML-chronic phase; CPK, creatine phosphokinase; cTS, cumulative toxicity score; CV, cardiovascular; DMR, deep molecular response; DRT, drug-related toxicity; EFS, event-free survival; EHA, European Hematology Association; ELTS, European Treatment and Outcome Study long-term survival score; ESH, European School of Haematology; Exp., experimental; FFS, failure-free survival; G, generation; iCMLf, International Chronic Myeloid Leukaemia Foundation; IMA, imatinib; interrupt., interruption; IRT, interactive response technology; IS, investigator-selected; MMR, major molecular response; MR, molecular response; NCCN, National Comprehensive Cancer Network; OS, overall survival; PFS, progression-free survival; QD, once daily; SAE, serious AE; SoC, standard of care; Stand., standard; TE-AOE, TE arterial occlusive event; TEAE, treatment-emergent AE; TFR, treatment-free remission; TKI, tyrosine kinase inhibitor.

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The guidance provided by this fact sheet is not intended to directly influence patient care. Clinicians should always evaluate their patients' conditions and potential contraindications and review any relevant manufacturer product information or recommendations of other authorities prior to consideration of procedures, medications or other courses of diagnosis or therapy included here.

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