

PhALLCON trial responder analysis: Ponatinib superior to imatinib in newly-diagnosed Ph+ ALL



KEY TAKEAWAYS

- The Phase 3 PhALLCON trial demonstrated that ponatinib, combined with reduced-intensity chemotherapy, was **superior to imatinib in newly diagnosed Ph+ ALL**
- In-depth responder analysis of the PhALLCON trial showed that ponatinib resulted in **higher rates of MRD negativity, longer PFS, and reduced rates of allo-SCT** compared with imatinib

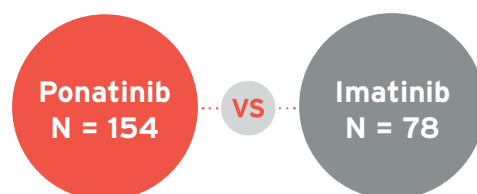
Ponatinib is a third-generation *BCR::ABL1* tyrosine kinase inhibitor (TKI). The US FDA approved ponatinib plus chemotherapy in March 2024 for the treatment of adults with newly-diagnosed Philadelphia chromosome positive (Ph+) acute lymphoblastic leukemia (ALL), based on the results of PhALLCON trial. In-depth responder analysis of the trial showed that treatment with ponatinib led to **higher rates of measurable residual disease (MRD) negativity and longer progression-free survival (PFS)** compared with imatinib.



In the PhALLCON trial, patients were randomized to receive:

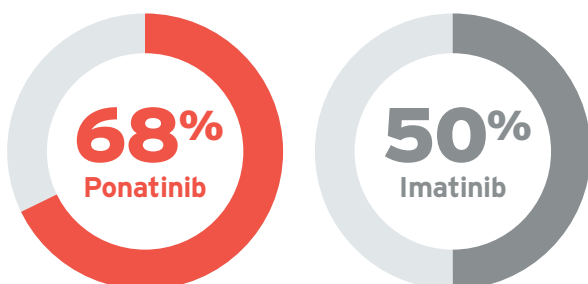
- Ponatinib 30 mg once daily with a dose reduction of 15 mg once daily + reduced intensity chemotherapy (RIC)
- Imatinib 600 mg once daily + RIC

The analysis investigated and compared rates of MRD negativity, PFS and allogeneic stem cell transplant (allo-SCT) between patients receiving ponatinib and imatinib



Substantially higher rates of MRD negativity with ponatinib vs imatinib

MRD negativity



PFS more than doubled with ponatinib vs imatinib

PFS	20.2 months Ponatinib	7.5 months Imatinib
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Reduced transplantation with ponatinib vs imatinib

Patients receiving allo-SCT overall	36% Ponatinib	47% Imatinib
Patients with MRD negativity receiving allo-SCT	32% Ponatinib + RIC	56% Imatinib + RIC



WHAT DOES THIS MEAN FOR PATIENTS?

PhALLCON is the first global Phase III randomized trial to compare two TKIs in adults with newly-diagnosed Ph+ ALL. It found that **ponatinib, combined with reduced-intensity chemotherapy, was superior to imatinib**. Consequently, the US FDA approved ponatinib plus chemotherapy in March 2024 for treating adults with newly diagnosed Ph+ ALL.

The analysis of the PhALLCON trial presented at EHA 2024 showed that ponatinib achieved higher rates of MRD negativity and **more than doubled PFS compared with imatinib**. Additionally, fewer patients on ponatinib required stem cell transplants, and the safety profiles of both drugs were comparable. These results suggest that ponatinib could be a more effective frontline treatment option for patients with Ph+ ALL.

Reference: Ribera J-M, et al. Adverse prognostic impact of secondary-type mutations in ELN 2022 favorable risk acute myeloid leukemia. Presented at the 29th European Hematology Association (EHA) Congress, Madrid. June 13-16, 2024. Abstract #S115.