

FLT3

FDA grants approval to gilteritinib (Xospata®) for the treatment of relapsed or refractory acute myeloid leukemia with FLT3 mutation



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On 28 November 2018, the [US Food and Drug Administration](#) (FDA) granted approval to gilteritinib (Xospata®) for the treatment of adult patients with relapsed or refractory (R/R) acute myeloid leukemia (AML) with a fms like tyrosine kinase 3 (*FLT3*) mutation as detected by an FDA-approved test.¹

Gilteritinib is a potent, oral *FLT3*/AXL inhibitor, which binds to and inhibits both the wild-type and mutated forms of *FLT3*. Data from a phase I/II dose escalation study (NCT02421939), published in [Lancet Oncology](#) (as reported by the AGP) revealed that gilteritinib monotherapy was well tolerated and generated frequent, prolonged, clinically important responses in *FLT3*-mutated R/R AML patients.²

The approval by the FDA for gilteritinib is based on data from the ongoing phase III randomized ADMIRAL study (NCT02421939), which is assessing oral gilteritinib 120 mg/day *versus* salvage chemotherapy in adult patients with *FLT3* mutations who are refractory to or have relapsed after first-line AML therapy. The primary endpoints of the study are overall survival (OS) and complete remission/complete remission with partial hematologic recovery (CR/CRh) rates.⁴ The design and plan of the phase III ADMIRAL study are discussed by [Alexander E. Perl](#) from [Abramson Comprehensive Cancer Center, University of Pennsylvania](#), in an [interview](#) with the AGP.

Interim analysis of the phase III ADMIRAL study demonstrated a rate of CR/CRh of 21%, duration of CR/CRh (DOR) of 4.6 months; and the rate of conversion from transfusion dependence to transfusion independence was 31.1% for any 56-day post-baseline period. For patients who achieved a CR/CRh, the median time to first response was 3.6 months (range, 0.9–9.6 months). The CR/CRh rate was 29 of 126 in patients with *FLT3-ITD* or *FLT3-ITD/TKD* and 0 of 12 in patients with *FLT3-TKD* only.¹

According to the drug manufacturers, Xospata® is the “first and only FLT3 inhibitor approved by the FDA for patients with relapsed or refractory AML with a *FLT3* mutation.”

References

1. PR Newswire: XOSPATA® (gilteritinib) Approved by U.S. FDA for Adult Patients with Relapsed/Refractory Acute Myeloid Leukemia (AML) with a FLT3 Mutation. 2018 Nov 28. <https://www.prnewswire.com/news-releases/xospata-gilteritinib-approved-by-us-fda-for-adult-patients-with-relapsedrefractory-acute-myeloid-leukemia-aml-with-a-flt3-mutation-300757323.html> [Accessed 2018 Nov 28].
2. [Perl A.E. et al.](#) Selective inhibition of FLT3 by gilteritinib in relapsed or refractory acute myeloid leukaemia: a multicentre, first-in-human, open-label, phase 1–2 study. [Lancet Oncol.](#) 2017 Jun 20. DOI: [10.1016/S1470-2045\(17\)30416-3](https://doi.org/10.1016/S1470-2045(17)30416-3). [Epub ahead of print].

3. Perl A.E. et al. An open-label, randomized phase III study of gilteritinib versus salvage chemotherapy in relapsed or refractory FLT3 mutation-positive acute myeloid leukemia. J Clin Oncol. 35, 2017 (suppl; abstr #TPS7067). 2017 American Society of Clinical Oncology (ASCO) Annual Meeting, 2017 June 2–6; Chicago, IL, USA.

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