



FDA grants annamycin Investigational New Drug Application approval for treatment of R/R AML



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On 26th September 2017, the [U.S. Food and Drug Administration \(FDA\)](#) granted Investigational New Drug (IND) application approval for [annamycin](#), an anthracycline antibiotic, for the treatment of patients with Relapsed or Refractory (R/R) Acute Myeloid Leukemia (AML).¹ This IND approval comes after the Orphan Drug Designation granted by the FDA and the recent IND application, which the AGP reported in [March](#) and [August](#) respectively.

Current anthracyclines such as doxorubicin used in standard chemotherapy for AML patients are associated with risk of cardiotoxicity as well as drug resistance.² Annamycin (liposomal annamycin) is a liposome-encapsulated form of the anthracycline doxorubicin, with antineoplastic activity. Annamycin evades cellular Multidrug-Resistance (MDR) mechanisms and eliminates cardiotoxicity.³

The IND approval granted by the FDA allows annamycin to be evaluated in R/R AML patients in clinical trials. [Moleculin](#), the drug manufacturers noted that the trial aims to evaluate the potential of annamycin in becoming the “first 2nd line therapy suitable for the majority” of R/R AML patients.¹

The FDA IND approval also allows the drug manufacturers to make a submission to the Polish authorities which is required for a planned phase I/II clinical trial with annamycin to be conducted in Poland.¹

References:

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2. [Jungsuwadee P.](#) Doxorubicin-induced cardiomyopathy: an update beyond oxidative stress and myocardial cell death. *Cardiovasc Regen Med.* 2016; 3: e1127. DOI: [10.14800/crm.1127](https://doi.org/10.14800/crm.1127).
3. [Wetzler M. et al.](#) Phase I/II Trial of Nanomolecular Liposomal Annamycin in Adult Patients with Relapsed/Refractory Acute Lymphoblastic Leukemia. *Clin Lymphoma Myeloma Leuk.* 2013 Aug; 13(4): 430–434. DOI: [10.1016/j.clml.2013.03.015](https://doi.org/10.1016/j.clml.2013.03.015). Epub 2013 Jun 10.

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