

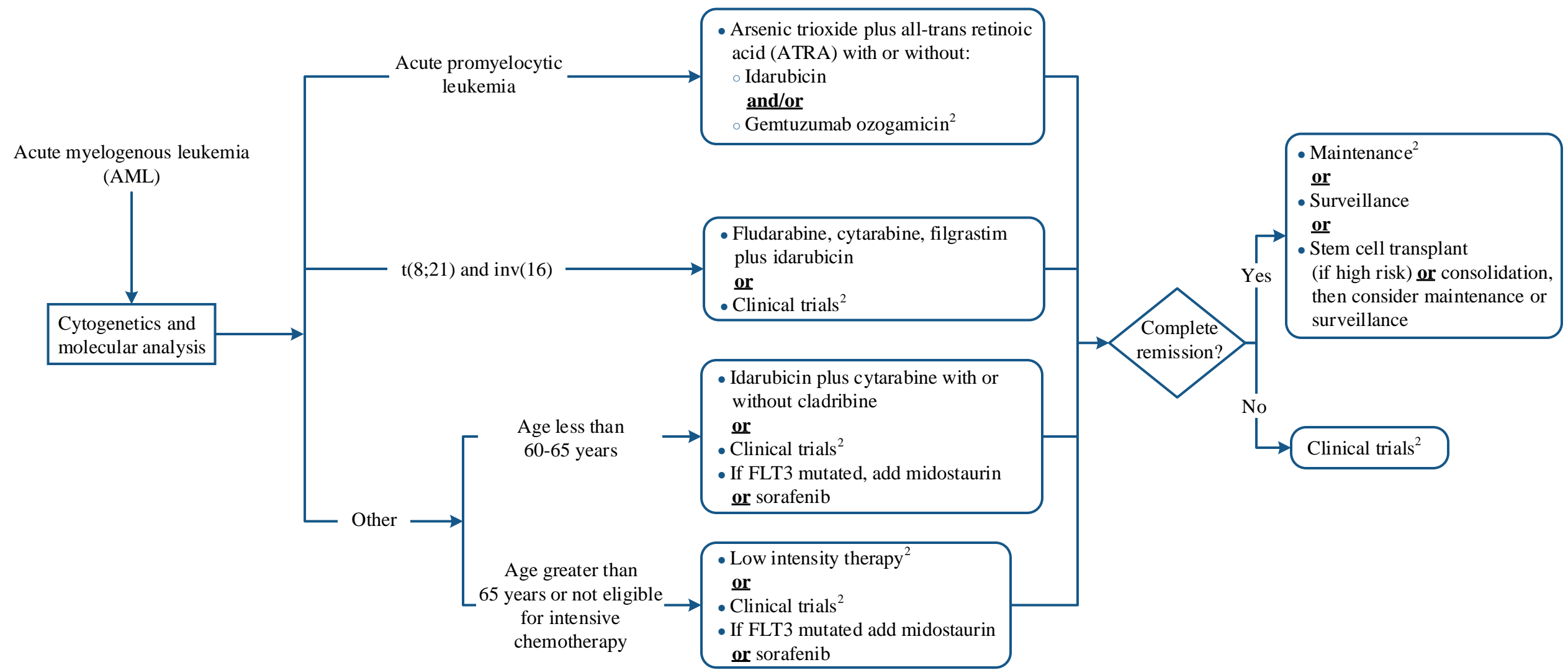
# Acute Myelogenous Leukemia - Adult (Greater than or equal to 18 years old)

Disclaimer: This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women.

Notes: Consider Clinical Trials as treatment options for eligible patients. Stem cell transplant guidelines are not included with this algorithm. Leukemia patients should be referred and treated at a comprehensive cancer center.

## INITIAL EVALUATION<sup>1</sup>

## TREATMENT



<sup>1</sup> See Physical Activity, Nutrition, and Tobacco Cessation algorithms; ongoing reassessment of lifestyle risks should be a part of routine clinical practice

<sup>2</sup> Leukemia newsletter: <http://www.mdanderson.org/leukemia> (available programs-treatment priorities)

# Acute Myelogenous Leukemia - Adult (Greater than or equal to 18 years old)

Disclaimer: This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women.

---

## SUGGESTED READINGS

Cicconi, L., & Lo-Coco, F. (2016). Current management of newly diagnosed acute promyelocytic leukemia. *Annals of Oncology*, 27(8), 1474-1481.

Daver, N., Cortes, J., Kantarjian, H., & Ravandi, F. (2016). Acute myeloid leukemia: advancing clinical trials and promising therapeutics. *Expert Review of Hematology*, 9(5), 433-445.

Kadia, T. M., Ravandi, F., Cortes, J., & Kantarjian, H. (2015). Toward individualized therapy in acute myeloid leukemia: a contemporary review. *JAMA Oncology*, 1(6), 820-828.

National Comprehensive Cancer Network. Acute Myeloid Leukemia (Version 3.2017). [https://www.nccn.org/professionals/physician\\_gls/pdf/aml.pdf](https://www.nccn.org/professionals/physician_gls/pdf/aml.pdf). Accessed January 11, 2018.

Sanford, D., & Ravandi, F. (2015). Management of newly diagnosed acute myeloid leukemia in the elderly: current strategies and future directions. *Drugs & Aging*, 32(12), 983-997.

# Acute Myelogenous Leukemia - Adult (Greater than or equal to 18 years old)

Disclaimer: *This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women.*

## DEVELOPMENT CREDITS

This practice algorithm is based on majority expert opinion of the Leukemia Center Faculty at the University of Texas MD Anderson Cancer Center. It was developed using a multidisciplinary approach that included input from the following:

Yesid Alvarado, MD (Leukemia)  
 Michael Andreeff, PhD, MD (Leukemia)  
 Kapil Bhalla, MD (Leukemia)  
 Christopher Benton, MD (Leukemia)  
 Gautam Borthakur, MBBS (Leukemia)  
 Prithviraj Bose, MD (Leukemia)  
 Jan Burger, MD (Leukemia)  
 Jorge Cortes, MD (Leukemia)  
 Naval Daver, MD (Leukemia)  
 Courtney DiNardo, MD (Leukemia)  
 Zeev Estrov, MD (Leukemia)  
 Alessandra Ferrajoli, MD (Leukemia)<sup>†</sup>  
 Emil Freireich, MD (Leukemia)  
 Wendy Garcia, BS<sup>♦</sup>  
 Guillermo Garcia-Manero, MD (Leukemia)  
 Elias Jabbour, MD (Leukemia)

Kiran Naqvi, MD (Leukemia)  
 Nitin Jain, MBBS (Leukemia)  
 Hagop M. Kantarjian, MD (Leukemia)<sup>†</sup>  
 Tapan Kadia, MD (Leukemia)  
 Michael Keating, MD (Leukemia)  
 Marina Konopleva, PhD, MD (Leukemia)  
 Steven Kornblau, MD (Leukemia)  
 Maro Ohanian, DO (Leukemia)  
 Naveen Pemmaraju, MD (Leukemia)  
 Farhad Ravandi-Kashani, MD (Leukemia)<sup>†</sup>  
 Mary Beth Rios, RN (Leukemia)<sup>†</sup>  
 Michael Rytting, MD (Pediatrics)  
 Koichi Takahashi, MD (Leukemia)  
 Philip Thompson, MBBS (Leukemia)  
 Srdan Verstovsek, MD (Leukemia)  
 William Wierda, PhD, MD (Leukemia)

<sup>†</sup>Core Development Team

<sup>♦</sup>Clinical Effectiveness Development Team