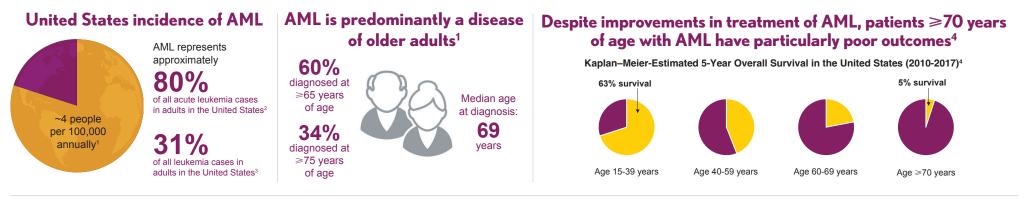
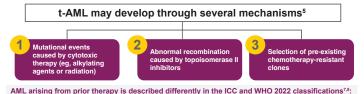
Acute Myeloid Leukemia (AML)

Overall AML survival rates have improved over the last several years, but new therapies are needed, particularly in patients with poor prognostic factors



t-AML refers to the development of AML as a consequence of prior cytotoxic therapy for another disease^{5,6}



Q ICC 2022: "therapy-related AML" is a diagnostic qualifier and not a stand-alone entity Q WHO 2022: "myeloid neoplasms post cytotoxic therapy" replaces "therapy related" and requires full diagnostic workup: exposure to PARP inhibitors is included as a gualifying criterion

Abbreviations: AML = acute myeloid leukemia, AML-MR = acute myeloid leukemia – myelodysplasia-related, AML-MRC = acute myeloid leukemia with myelodysplasia-related changes, DLCO = diffusion capacity of the lungs for caraton monoxide, FEV, = force expiratory volume in the first second, HCT = hematopoteic cell transplantation, ICC = International Consensus Classification, MDS = myelodysplastic syndrome, MRN = myelogroliferative neoplasm, PARP = poly (ADP ribose) polymerase; t-AML = therapy-related acute myeloid leukemia, WHO = World Heath Organization.

Footnote: *Data for complete remission rates and overall survival are from different studies with different patient populations *Complete remission rates for t-AML in the literature: 30%.¹⁸ 54%.¹⁷ 61%.¹¹ and 63%.¹⁶

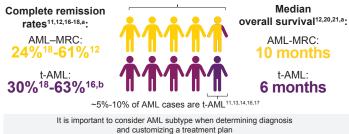
Lymphoid Tissues. Revised 4th ed. Lýon, France: International Agency for Research on Cancer; 2017. 23. Ferrara F, et al. Leukemia 2013;27(5):997-999. 24. DiNardo CD, et al. N Engl J Med. 2020;383(7):617-629.



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t-AML and AML-MRC are both associated with poor outcomes⁹⁻¹³

Up to 48% of adult AML cases are AML-MRC9.14,19



AML treatment decisions are guided by a range of factors⁵

The goal of AML treatment is to control, and if possible, eradicate disease, ideally using induction therapy to achieve complete remission, and then consolidation and/or maintenance therapy to deepen and prolong the response. HCT should be considered during first remission according to the benefit:risk ratio

The results of genetic analyses should be available as rapidly as possible (eg. 3-5 days) to guide treatment decisions. A short delay in starting treatment to establish the best treatment option is recommended to optimize outcomes

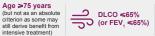
There are no generally accepted or validated criteria to consider a patient ineligible for intensive chemotherapy; however, criteria used in clinical trials have included^{5,23,24}:

闿

Inadequate

status

performance



lli

AML-MRC was defined in the WHO 2016 classification as a distinct category of AML determined by clinical history, cvtoaenetics. or morpholoav⁶



X

Presence of

significant

Comorbidities

6.

Defined as patients with AML who have ≥20% blasts in the peripheral blood or bone marrow and any of the following^{6,22}:

Previously documented MDS or MDS/MPN

8 MDS-related cytogenetic abnormalities

Multilineage dysplasia in ≥50% of ≥2 cell lineages in the absence of NPM1 or biallelic CEBPA mutations



Any of the cytogenetic abnormalities qualifying for diagnosis E, of AML with recurrent genetic abnormalities, such as inv(3). t(6;9), or NPM1 mutation

Prior cytotoxic therapy for unrelated disease

AML-MRC is not included as a category in the ICC and WHO 2022 classifications7,8:

• ICC 2022: prior MDS or MDS/MPN is used as a diagnostic qualifier, AML with myelodysplasia-related cytogenetic abnormality and AML with myelodysplasia-related gene mutation are separate categories, and multilineage dysplasia is not included

• WHO 2022: a type of AML with defining genetic abnormalities "AML-MR" replaces AML-MRC and includes AML transformation of MDS or MDS/MPN and AML with MDS-related cytogenetics or gene mutations; multilineage dysplasia is not included