

SWISS ONCOLOGY & HEMATOLOGY CONGRESS

Prognostic value of the new AML60+ score for elderly patients with acute myeloid leukemia treated with hypomethylating agents

Clinical hemato-oncology Abstract-ID 424

V. Petermichl¹, S. Fuchs², M. Weber³, L. Graf⁴, Y. Gerth⁵, T. Lehmann^{1, 3}, U. Mey⁶, R. Cathomas⁶, S. Cogliatti³, T. Silzle^{6, 1}, ¹Clinic for Medical Oncology and Hematology, Cantonal Hospital St. Gallen, ²Department of Internal Medicine, Cantonal Hospital Graubünden, Chur, ³Institute of Pathology, Cantonal Hospital St. Gallen, St. Gallen, ⁴Clinical Chemistry, Hematology and Immunology, Center for Laboratory Medicine, St. Gallen, ⁵Molecular Genetics Laboratory, Center for Laboratory Medicine, St. Gallen, ⁶Department of Medical Oncology and Hematology, Cantonal Hospital Graubünden, Chur

Introduction

The AML60+ score combines clinical and genetic parameters and has recently been proposed for risk assessment in intensively treated elderly patients (pts) with AML or high-risk Myelodysplastic Syndrome (MDS).

Its prognostic significance in elderly pts treated with hypomethylating agents (HMAs) is currently unknown.

We therefore aimed to evaluate the prognostic impact of the AML60+ score in this frequent population in comparison to the ELN2022 classification.

Methods

We performed a retrospective chart review of pts diagnosed with AML or MDS/AML between 2017 and 2023. Pts were evaluable, if they had received an HMA-based therapy for at least one cycle.

The following variables are included in the AML60+ score with different weightings:

Variable	HR	95%
TP53 mutation	2.42	1.83
Monosomal karyotype	2.06	1.56
Age < 65 years	1.5	1.31
RUNX1 mutation	1.49	1.26
FLT3-ITD	1.36	1.13
ASXL1 mutation	1.32	1.10
DNMT3A mutation	1.25	1.07
$WBC > 20x10^{9}/I$	1.22	1.03
Male sex	1.15	1.00

Based on the number of points, the following risk groups can be distinguished:

favorable	0-1
intermediate	2-3
poor	4-5
very poor	≥6

Results I

53/85 (62%) of all elderly (MDS/)AML-patients were evaluable for this analysis. (AML/MDS n=7, AML n=46).

23/53 (44%) were female; The median age was 77 years (range 61-91).

During follow-up (median 6 months [mo], range 0-44) 45/53 patients (85%) died. 29 pts received an HMA and Venetoclax, 5 pts Decitabine and Ibrutinib and 19 pts

a HMA alone.





Kantonsspital

Graubünden