# Acute Myeloid Leukemia: A Multicenter Experience in Colombia, on behalf of ACHO's RENEHOC Investigators

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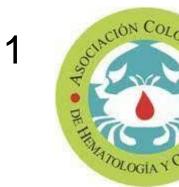














## Introduction

Acute Myeloid Leukemia (AML) is a hematological neoplasm with an estimated 5-year survival of 27.3%, however compared with previous years this has increased thanks to a better prognostic understanding of the molecular and cytogenetic characteristics of the disease and the increased use of hematopoietic progenitor cell transplantation (HSCT) in its different modalities, as the best post-mission treatment for long-term survival.

# Objective

To characterize the population of patients diagnosed with AML who were attended in 7 health institutions in Colombia, from 2009 to 2020.

## Materials & Methods

A total of 289 patients were included in RENEHOC and PETHEMA (Spanish Program for Hematology Treatments); Kaplan-Meier analysis was used to assess overall survival at 1 year (1-OS) and 5 years (5-OS) of follow-up and relapse-free survival (1-RFS, 5-RFS).

#### Table 1. Characteristics of the patiens AML RENEHOC, Colombia

Characteristics	Patients n= 289 (100%)	
Female	146 (50.2%)	
Age at diagnosis (years) Median, IRQ	62 (46-71)	
ECOG <2	143 (78.1%)	
Secondary AML	36 (12.5%)	
Responsed		
Complete Remission	76 (45%)	
Absolute resistance	30 (17.8%)	
Died in induction Died (day >15)	23 (13.6%) 12 (66.7%)	
Treatment Regimens		
Intensive Chemotherapy 7+3 induction regimen	121 (55.8)	
Patients who underwent HSCT	29 (21.2%)	
Patientes with criteria for HSCT	106 (77.4%)	
Allogenic HSCT	26 (19%)	
Autologous HSCT	3 (2.2%)	

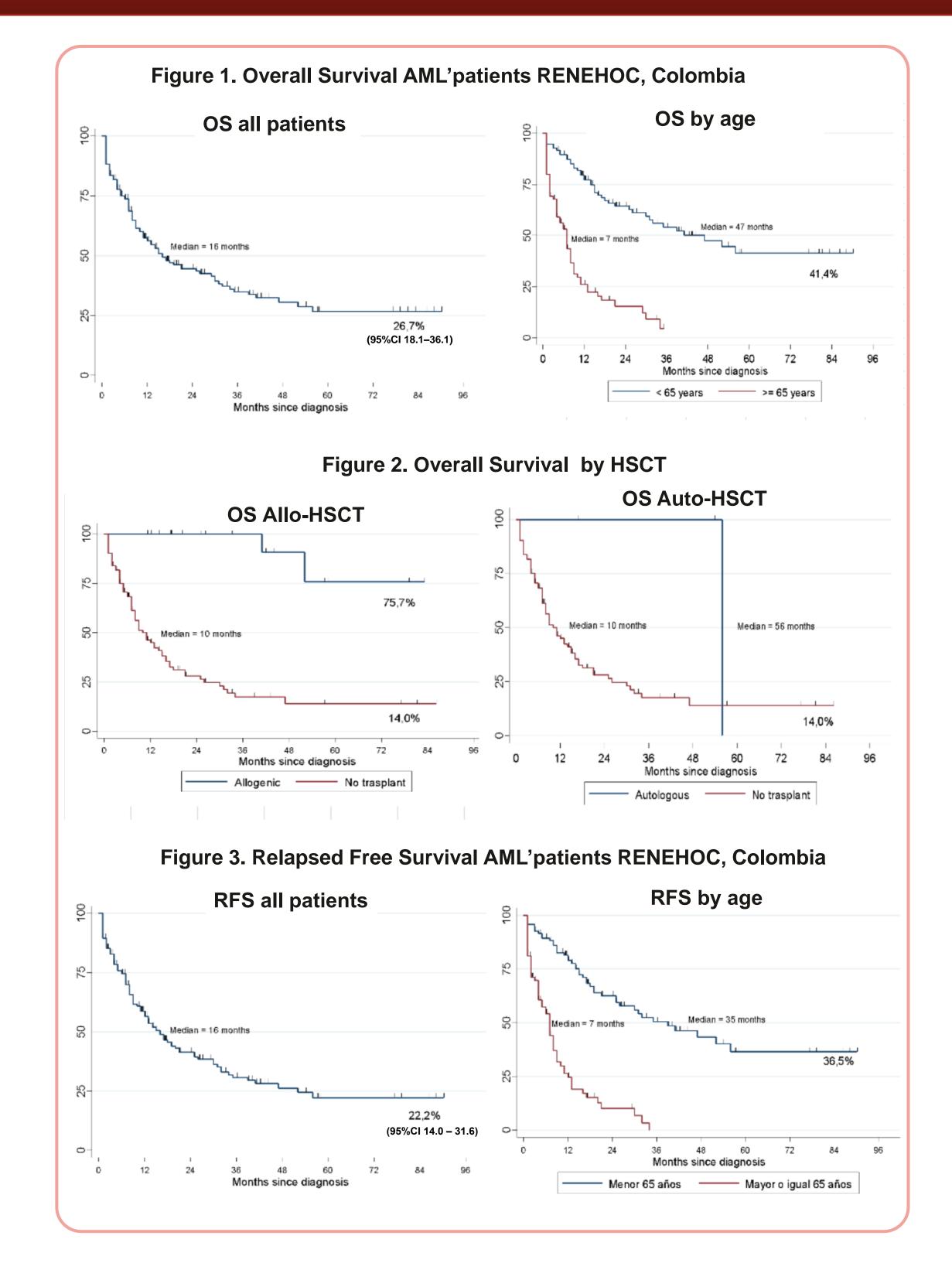
Table 2. Survival by age of the patients AML RENEHOC, Colombia

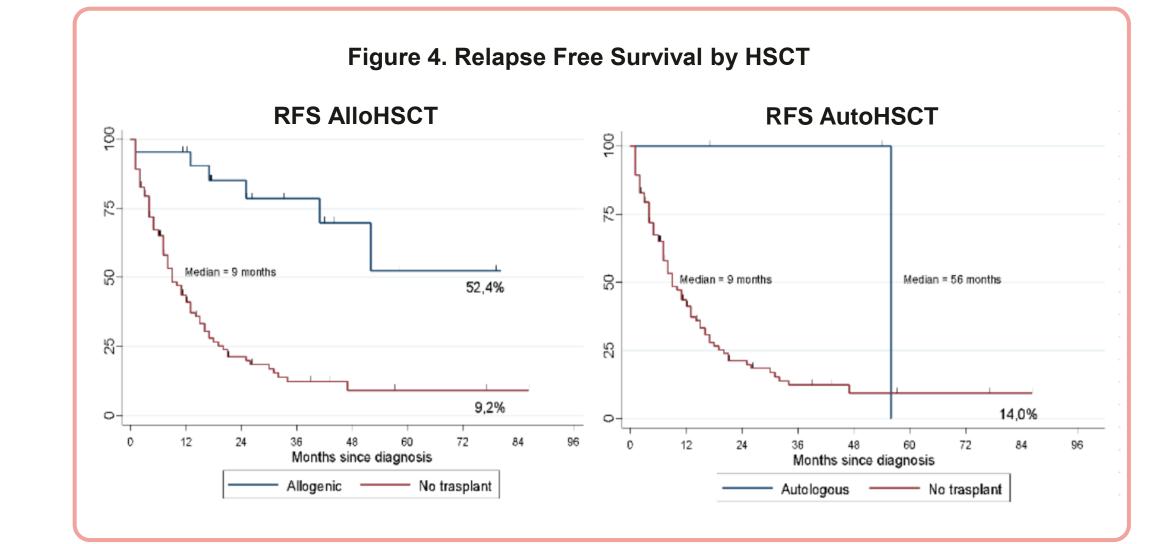
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Survival	Follow-up	<65 years	(95%CI)	≥ 65 years	(95%CI)
Overall	1-year	77.2%	(67.2- 84.5)	26.1%	(15.9–37.4)
	5-years	41.4%	(28.1–54.2)	0%	-
Relapse free	1-year	78.9%	(68.8–86.0)	36.5%	(23.0–50.0)
	5-years	24.7%	(14.6–36.0)	0%	-

Table 3. Survival by HSCT of the patiens AML RENEHOC, Colombia

Survival	Follow-up	autoHSCT	(95%CI)	alloHSCT	(95%CI)
Overall	1-year	100%	-	100%	-
	5-years	0%	-	75.7%	(30.5–93.7)
Relapse free	1-year	100%	(68.8–86.0)	95.4%	(71.9–99.3)
	5-years	0%	-	52.4%	(16.8–79.1)

## Results





### Conclusions

Our results also show AML in an older population and that age is associated with shorter survival. We identified a low proportion of AlloHSCT, despite the survival benefit compared to non-transplant patients.

### References

[1] Shallis RM, Wang R, Davidoff A, Ma X, Zeidan AM. Epidemiology of acute myeloid leukemia: Recent progress and enduring challenges. Blood Rev. 2019 Jul;36:70-87. doi: 10.1016/j.blre.2019.04.005. Epub 2019 Apr 29. PMID: 31101526.

[2] Kassim AA, Savani BN. Hematopoietic stem cell transplantation for acute myeloid leukemia: A review. Hematol Oncol Stem Cell Ther. 2017 Dec;10(4):245-251. doi: 10.1016/j.hemonc.2017.05.021. Epub 2017 Jun 20. PMID: 28666104.

