Check for updates





Blood 142 (2023) 3352-3354

The 65th ASH Annual Meeting Abstracts

POSTER ABSTRACTS

652.MULTIPLE MYELOMA: CLINICAL AND EPIDEMIOLOGICAL

Survival of Patients with Multiple Myeloma Treated with Bortezomib-Based Triplets and Autologous Hematopoietic Stem Cell Transplant As First Line in Latin America

Camila Peña, MD¹, Virginia Bove^{2,3}, Eloisa Riva⁴, Patricio Duarte⁵, Cesar Augusto Samanez-Figari, MD⁶, Cristian M Seehaus, MD⁷, Luz Tarin-Arzaga, MD⁸, Seisha Alana Von Glasenapp, MD⁹, Rodrigo Meneces Bustillo, MD¹⁰, Jule F Vasquez, MD¹¹, Marcos Hernandez¹², Claudia Shanley, MD¹³, Moisés Manuel Gallardo-Pérez, MDMSc^{14,15}, Guillermo José Ruiz-Arguelles, FRCP^{16,14}, Romina Mariano, MD¹⁷, Virginia Gilli¹⁸, David Israel Garrido, MD¹⁹, Patricia Graffigna, MD²⁰, Natalia Paola Schutz, MD²¹, Dorotea Fantl, MD²²

¹Hospital Del Salvador, Santiago, Chile

²Hospital Central de las FF.AA., Mintevideo, Uruguay

³Centro de Asistencia de la Agrupación Médica de Pando, Montevideo, Uruguay

⁴Clinical Hospital Dr. Manuel Quintela De Clinicas, Montevideo, Uruguay

⁵CEMIC, Buenos Aires, Argentina

⁶AUNA, Lima, Peru

⁷Hospital Italiano de Buenos Aires, Buenos Aires, ARG

⁸HU UANL, Monterrey, MEX

⁹HCIPS, Asuncion, PRY

¹⁰ Sanatorio Allende, Córdoba, Argentina

¹¹ Instituto Nacional de Enfermedades Neoplasicas, Lima, Peru

¹²Metropolitano del norte universidad de Carabobo, Caracas, VEN

¹³Hospital Británico Buenos Aires, Bueno Aires, Argentina

¹⁴Universidad Popular Autónoma del Estado de Puebla, Puebla, Mexico

¹⁵ Investigación Clínica, Centro de Hematología y Medicina Interna, Clínica Ruiz, Puebla, MEX

¹⁶Centro De Hematologia Medicina Interna, Puebla, Mexico

¹⁷ HOSIPTAL SAN MARTIN, Buenos Aires, ARG

¹⁸Hospital San Martín, Parana, Argentina

¹⁹Hospital de Clinicas, Montevideo, URY

²⁰Hospital del Salvador, Santiago, CHL

²¹Hematology, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina

²²Hospital Italiano de Buenos Aires, Buenos Aires, ARG

Background

In transplant-eligible newly diagnosed multiple myeloma (NDMM), triplet combinations including proteasome-inhibitors and immunomodulators are the backbone of induction therapy before autologous stem cell transplant (ASCT). Post-ASCT maintenance with lenalidomide is the standard of care. This approach yields deep responses and long overall survival.

In Latin America (LATAM) there is scarce data about the outcome of bortezomib-based triplets and ASCT.

The aim of this study was to evaluate overall survival (OS) in Latin American transplant-eligible NDMM patients induced with bortezomib-based triplets and ASCT.

Methods

Retrospective international multicenter cohort study. Patients older than 18 years with MM, who received bortezomib-based triplets followed by ASCT as first line, between 2010 and 2022 were analyzed.

Data were collected from clinical records in a standardized report form. We analyzed clinical characteristics at diagnosis and frontline therapy outcomes. Descriptive statistics were performed. Comparisons of characteristics between groups were made using the Chi-square test, Student's T-test and ANOVA, as appropriate. Survival analysis was performed using Kaplan-Meier curves, comparisons between groups by Log Rank method, and calculations of the risk relationships by Cox regression. Statistical analysis was performed by using IBM SPSS version 25.0.

POSTER ABSTRACTS

Results

A total of 279 patients with NDMM were included, 124 from Argentina, 20 from Chile, 30 from Mexico, 20 from Paraguay, 43 from Peru, 33 from Uruguay, and 9 from Venezuela. Median age was 57 years (range 29-75) with a male predominance (54.8%). Most patients (58%) were treated in private centers. 56.1% were IgG subtype, 24.8% IgA and 17.3% light chain MM. According to the ISS, 69.2% were classified as ISS II or III. Bone disease was the most frequent myeloma-defining events (75.9%), followed by anemia (61.4%), renal failure (24.2%), and hypercalcemia (20.1%). Fluorescence in situ hybridation (FISH) analysis was performed in 53.4% of patients (only 41% with plasma cell sorting), del17p was the most frequent anomaly found (17.4%), followed by t(4;14) (6%), and t(14;16) (2%).

The most frequently used induction regimen was cyclophosphamide-bortezomib-dexamethasone (CyBorD) (38.7%), followed by bortezomib-thalidomide-dexamethasone (VTD) (33.7%), and bortezomib-lenalidomide-dexamethasone (VRD) (27.6%). Very good partial remission (VGPR) or better was achieved in 88.3% for VRD, 81.9% for VTD, and 76.8% for CyBorD (p=0.138). Median time from diagnosis to ASCT was 261.5 days. Only 7 patients received tandem ASCT as first-line consolidation. Maintenance treatment was administered to 88.2% of patients and was based on lenalidomide, thalidomide, bortezomib, and lenalidomide+bortezomib in 67.9%, 16.3%, 8.9% and 3.3%, respectively. Treatments and responses are shown in detail in Table 1.

With a median follow-up of 45 months (range 7-140), median progression-free survival (PFS) was 33 months (95% CI, 26.7 - 39.3). Median PFS according to treatment was 21 months (95% CI, 14.3 - 27.7) for VRD, 35 months (95% CI, 22.2 - 47.8) for VTD, and 36 months (95% CI, 28 - 44) for CyBorD, p=0.004. Median OS of the whole cohort was not reached (NR), and 86% at 45 months; 75 months for VRD (95% CI, 44 - 106), and NR for CyBorD and VTD (p=0.284) (Figure 1).

In the multivariate analysis hypercalcemia (p=0.01) and extramedullary disease (p=0.03) were the only independent risk factors.

Discussion

FISH was performed only in half of our patients, and the majority without plasma cell sorting. The main used regimen was CyBorD. Although better PFS was obtained with CyBorD, no significant differences in responses or OS were found between VRD, VTD or CyBorD. The reason why VRD PFS and OS were lower merits further study. We report a high rate of maintenance treatment.

Disclosures Peña: Janssen: Other: Congress Travel expenses.

Characteristic	Total (n=279)(%)	CyBocR (n=108)(%)	VTd (n=94) (%)	VBd (n=77) (%)	P value
Centers Public setting Private setting	117 (41.9) 162 (58.1)	46 (42.6) 62 (57.4)	59 (62.8) 35 (37.2)	12 (15.6) 65 (84.4)	<0.001
Median age, years (range)	57 (29-75)	59 (31-75)	56 (29-66)	57 (29-71)	NA
Sex, male	153 (54.8)	59 (54.6)	53 (56.4)	41 (53.2)	0.918
Subtype no IgG	123 (44)	58 (51.9)	37 (39.4)	30 (39)	0.116
ISS (n=266) Stage 1 Stage 2 Stage 3	82 (30.8) 92 (34.6) 92 (34.6)	24 (22.2) 42 (38.9) 40 (37)	31 (33) 26 (27.7) 28 (29.8)	27 (35.1) 24 (31.2) 24 (31.2)	0.108 0.220 0.509
R-ISS (n=175) Stage 1 Stage 2 Stage 3	44 (25.1) 81 (46.3) 50 (28.6)	17 (15.7) 35 (32.4) 30 (27.8)	12 (12.8) 19 (20.2) 5 (5.3)	15 (19.5) 27 (35.1) 15 (19.5)	0.488 0.064 < 0.001
Elevated LDH (n=263)	69 (26.2)	28 (27.7)	23 (28.7)	18 (23.7)	0.826
Clinical features Hemoglobin <10g/dl (n=277) Creatinine 22mg/dl (n=273) Dialysis Calcium >11mg/dl (n=273) Osteolytic lesions (n=278) Extramedullarv disease	170 (61.4) 66 (24.2) 16 (5.7) 55 (20.1) 211 (75.9) 32 (11.5)	75 (70.1) 39 (36.4) 12 (11.1) 26 (24.3) 80 (74.8) 9 (8.3)	53 (56.4) 17 (18.7) 3 (3.2) 17 (18.9) 68 (72.3) 17 (18.1)	42 (55.3) 11 (14.5) 1 (1.3) 12 (15.8) 63 (81.8) 6 (7.8)	0.060 0.001 0.008 0.344 0.333 0.047
High-risk cytogenetic (n=149) Del17p, t(4;14), t(14;16)	30 (10.8)	11 (16.4)	11 (39.3)	8 (14.8)	0.019
Response to treatment CR VGPR PR SD-PD CR+VGPR Maintenance Tandem ASCT	100 (35.8) 128 (45.9) 38 (13.6) 13 (4.7) 228 (81.7) 246 (88.2) 7 (2.5)	35 (32.4) 48 (44.4) 21 (19.4) 4 (3.7) 83 (76.9) 89 (82.4) 3 (2.8)	39 (41.5) 38 (40.4) 11 (11.7) 6 (6.4) 77 (81.9) 86 (91.5) 1 (1.1)	26 (33.8) 42 (54.5) 6 (7.8) 3 (3.9) 68 (88.3) 71 (92.2) 3 (3.9)	0.368 0.170 0.060 0.621 0.138 0.080 0.487

Table 1. Baseline characteristics of patients, treatment and response (n=279)

Figure 1. Kaplan-Meier plot comparing overall survival between patients treated with CyBorD, VTD, and VRD. (n=279)

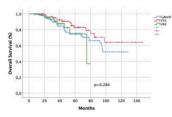


Figure 1

https://doi.org/10.1182/blood-2023-185240

Downloaded from http://ashpublications.net/blood/article-pdf/142/Supplement 1/3352/2202153/blood-9954-main.pdf by guest on 01 June 2024