

Bendamustine in Combination with Gemcitabine and Vinorelbine (BEGEV) is an Effective Regimen for Heavily Pretreated Relapsed or Refractory Hodgkin Lymphoma Patients: A Retrospective Study

A. Russo^{1,7}, A. Pulsoni², S. Viviani³, F. Ricci¹, R. Mazza¹, M. Magagnoli¹, L. Morello¹, F. Landi³, A. Guidetti³, M. Merli⁴, M. Rodari⁵, A. Serrao², G. Annechini², B. A. Nervini², L. Giordano⁶, L. Castagna¹, F. Passamonti⁴, A. Chiti^{5,7}, P. Corradini³, A. Santoro^{1,7}, C. Carlo-Stella^{1,7}

1 Oncology and Hematology, Humanitas Cancer Center, Humanitas Research Hospital, Milano, Italy 2 Department of Cellular Biotechnology and Hematology, La Sapienza University, Rome, Italy 3 Division of Hematology and BMT Unit, Fondazione IRCCS Istituto Nazionale dei Tumori, Milano, Italy 4 Department of Hematology, University of Insubria, Varese, Italy 5 Nuclear Medicine, Humanitas Research Hospital, Milano, Italy 6 Biostatistics Unit, Humanitas Research Hospital, Milano, Italy 7 Department of Biomedical Sciences, Humanitas University, Milano, Italy

Introduction

• With many new therapies available, there is no consensus on how Hodgkin Lymphoma should be treated beyond second line

 BEGEV regimen has been proved a highly effective second line treatment for patients with relapsing/remitting Hodgkin Lymphoma as reported in a previous phase 2 study¹

 We wanted to investigate if BEGEV could also be used on highly-treated patients far beyond second line treatment or patients on which immunotherapy or autologous stem cell transplantation (auto-SCT) had proved ineffective.

 We report a retrospective analysis of efficacy of the BEGEV regimen administered as second- or subsequent-line therapy to relapsed and refractory classical Hodgkin Lymphoma patients

Patients & Methods

 HL patients analyzed underwent BEGEV regimen (4 cicles every 3 weeks) from January 2013 to March 2018 in 4 different Italian hospitals. Patients characteristics are summarized in Table 1.

 Patients that underwent BEGEV beyond second line had previously received a median of 3 (range, 2-8) lines of therapy prior to BEGEV, including Brentuximab Vedotin (83%) and auto-SCT (43%).

Table 1. Patients characteristics

	All Patients	2nd line	beyond 2nd line
Patients number	73	50	23
Sex			
Male	37	24	13
Female	36	26	10
Age, years			
Median	34	33	34
Range	19 - 71	19 - 70	23 - 71
Response to 1st line therap	у		
Chemorefractory	46	28	18
Chemosensitive	27	22	5

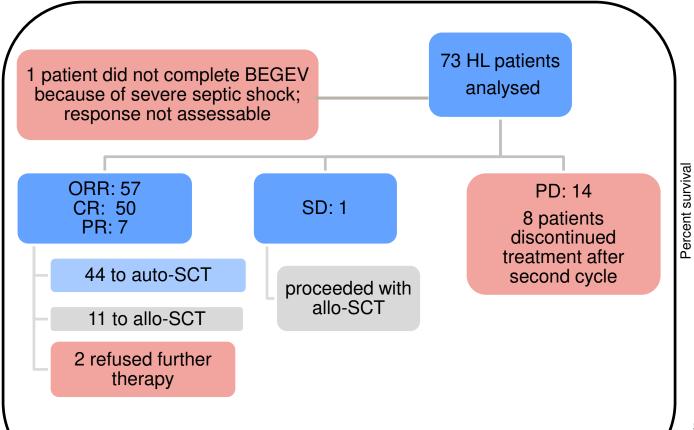


Figure 1. Therapy prosecution for patients that underwent BEGEV regimen based on response

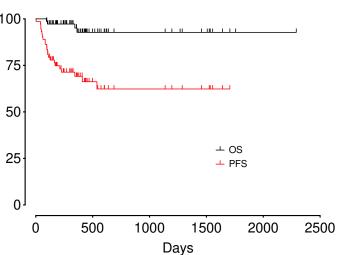
Table 2. BEGEV response rate

All Patients	2nd line	beyond 2nd line	surviva		
72	49	23			
			Percent		
57 (79%)	41 (84%)	16 (69%)			
50 (69%)	35 (71%)	15 (65%)			
7 (10%)	6 (12%)	1 (4%)			
1 (1.4%)	0	1 (4%)			
14 (19%)	8 (16%)	6 (26%)			
	All Patients 72 57 (79%) 50 (69%) 7 (10%) 1 (1.4%)	All Patients2nd line724957 (79%)41 (84%)50 (69%)35 (71%)7 (10%)6 (12%)1 (1.4%)0	All Patients2nd linebeyond 2nd line72492357 (79%)41 (84%)16 (69%)50 (69%)35 (71%)15 (65%)7 (10%)6 (12%)1 (4%)1 (1.4%)01 (4%)		

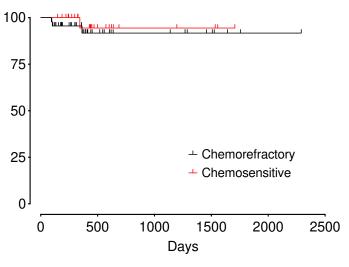


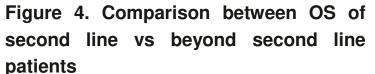
Results

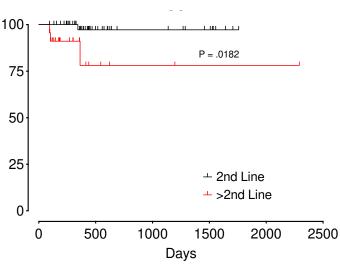
Figure 2. OS and PFS of the whole patient cohort



chemosensitive vs chemorefractory patients







survival

Probability of achieving response to BEGEV was significantly higher in primary chemosensitive vs chemorefractory patients (96% vs 70%, P=0.007)

• There was no statistical difference in probability of achieving response between patients receiving BEGEV as 2nd-line vs beyond 2nd-line (83.7% vs 69.5%, P=0.217)

 Therapy prosecution for the BEGEVresponders is summarized in Figure 1

Figure 3. Comparison between OS of • With a median follow-up of 14 months, 1-yr OS and PFS are 93% and 69% (Figure 2)

> • Disease status (primary chemosensitive vs chemorefractory) had no impact on survival (1-yr OS: 94% vs 92%, P=0.57) likely due post-BEGEV consolidation therapy (Figure 3)

> Instead, timing of BEGEV administration (2nd line vs subsequent lines) significantly affected survival (1-yr OS: 97% vs 78%, P=0.018) (Figure 4)

Conclusion

second line vs beyond second line Data from this real-world analysis show that BEGEV is an effective salvage regimen even when administered to heavily pre-treated Hodgkin Lymphoma patients, thus representing an optimal therapeutic platform prior to consolidation with SCT or immunotherapy

References

1. Santoro et al., J Clin Oncol, 2016

Contact

carmelo.carlostella@hunimed.eu