ical spectrum of AL presentation reflects the complexity of diagnostic approach: patients are seen by different specialists, require more than 2 biopsies and are diagnosed late in advanced stages with markers of poor prognosis. Moreover, proteasome inhibitor is not widely available in public system and few patients are eligible for ASCT. Altogether may explain poor outcomes of AL patients in our center. Conclusions: Diagnosis of systemic AL amyloidosis is a challenge in Brazil. Medical education, better tools for diagnosis, establishment of a multidisciplinary team and a registry, availability of disease-modifying drugs and ASCT may improve outcomes.

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POMALIDOMIDE, BORTEZOMIB, DEXAMETHASONE AFTER 1 PRIOR LINE OF THERAPY IN RELAPSED OR REFRACTORY MULTIPLE MYELOMA: SUBANALYSIS OF OPTIMMISM BY AGE, PRIOR TRANSPLANT, AND HIGH-RISK CYTOGENETICS

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Goals: Upfront Lenalidomide (LEN) until disease progression is a standard treatment (Tx) for newly diagnosed multiple myeloma, regardless of patient (pt) age and transplant eligibility. However, pts who have exhausted the benefit of LEN at first relapse are a growing population in need of effective Tx options. In the OPTIMISMM trial (NCT01734928), pomalidomide (POM), bortezomib (BORT), and dexamethasone (DEX; PVd) significantly improved PFS vs Vd (median, 20.7 vs 11.6 mos; hazard ratio = 0.54 [95% CI, 0.36-0.82]; p = .0027) in an analysis of pts at first relapse. Here we report the efficacy and safety of PVd by age, prior stem cell transplant (SCT) status, and presence of high-risk cytogenetic abnormalities (HR CAs; defined as del[17p], t[4;14], or t[14;16]) in pts treated after 1 prior line of therapy (LOT). Methods: Pts received PVd or Vd (1:1) in 21-day cycles (C). POM 4 mg/d on d 1-14 (PVd arm only); BORT 1.3 mg/m² on d 1, 4, 8, and 11 of C 1-8 and on d 1 and 8 of C 9+; and DEX 20 mg/d (10 mg/d for pts aged > 75 yrs) on days of and after BORT. PFS was the primary endpoint. Results: 226 of 559 pts (40%) enrolled in OPTIMISMM had 1 prior LOT: 100 pts aged \leq 65 yrs (49 PVd, 51 Vd) and 126 aged > 65 yrs (62 PVd, 64 Vd). In pts aged \leq 65 yrs (PVd vs Vd), 55.1% vs 51.0% were LEN refractory and 83.7% vs 72.5% had prior BORT. In pts aged > 65 yrs, 59.7% vs 60.9% were LEN refractory and 41.9% vs 46.9% had prior BORT. After 1 prior LOT, PVd significantly improved PFS in pts aged \leq 65 yrs (median, 22.0 vs 13.1 mos; HR = 0.49 [95% CI, 0.26-0.92], p = .0258) and those aged > 65 yrs (median, 17.6 vs 9.9 mos; HR = 0.57 [95% CI 0.34-0.97], p = .0369) vs Vd; data cutoff was 26 Oct 2017. In pts aged \leq 65 yrs, ORR was 89.8% vs 54.9% (p < .001; \geq VGPR 65.3% vs 17.6%) and in pts aged > 65 yrs, ORR was 90.3% vs 54.7% (p <.001; ≥ VGPR 58.1% vs 26.6%). Significant improvements in PFS and ORR with PVd vs Vd were also observed in pts with prior SCT (56 PVd, 54 Vd; median PFS, 22.0 vs 13.8 mos, p =.0241; ORR, 91.1% vs 57.4%, p < .001) or without prior SCT (55 PVd, 61 Vd; median PFS, 16.5 vs 9.5 mos, p = .0454; ORR, 89.1% vs 52.5%, p < .001). Pts with HR CAs had a median PFS of 14.7 mos with PVd (n = 18) vs 9.9 mos with Vd (n = 14); ORR was 94.4% vs 57.1% (p = .027), \geq VGPR was 72.2% vs 35.7%. The most common grade 3/4 treatmentemergent adverse events (PVd vs Vd) were neutropenia (49.0% vs 6.3%), infections (system organ class; 30.6% vs 14.6%), and thrombocytopenia (26.5% vs 18.8%) in pts aged ≤ 65 yrs and neutropenia (25.8% vs 12.9%), infections (27.4% vs 16.1%), and thrombocytopenia (14.5% vs 22.6%) in pts aged > 65 yrs. Discussion: In pts with LEN-pretreated RRMM at first relapse, PVd reduced the risk of progression or death by 51% in pts aged ≤ 65 yrs and 43% in those > 65 yrs vs Vd, and led to significantly improved ORR and deeper responses. Similar outcomes were observed in pts regardless of prior SCT. Although limited by the number of pts, the high ORR and depth of response seen with PVd in pts with HR CAs are promising. The safety of PVd was consistent with the known profiles of POM, BORT, and DEX. Conclusions: These results support the use of PVd after first relapse in pts previously treated with LEN, regardless of age, prior SCT status, and presence of HR CAs.



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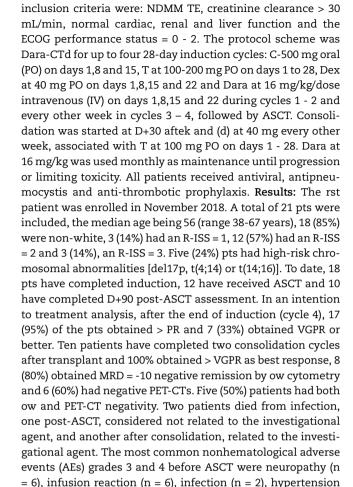
PRELIMINARY RESULTS OF DARATUMUMAB, CYCLOPHOSPHAMIDE, THALIDOMIDE AND DEXAMETHASONE: A QUADRUPLET INTENSIED TREATMENT FOR NEWLY DIAGNOSED MULTIPLE MYELOMA (NDMM) TRANSPLANT ELIGIBLE (TE) PATIENTS

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Background: The inclusion of the CD38-targeting antibody daratumumab (Dara) increases the depth and duration of the response, as demonstrated by Dara-VTd and Dara-VRd protocols to treat NDMM - TE patients (pts). However, the access to new drugs is a challenge for some countries in Latin America. There are many induction protocols and one of the most used inductions worldwide is cyclophosphamide (C), thalidomide (T) and dexamethasone (d)- (CTd). We hypothesized that the combination of Dara and CTd could be safe and allow deeper activity in NDMM TE pts. Objective: The primary endpoint was the attainment of VGPR after two consolidation cycles post-autologous stem cell transplantation (ASCT). Secondary endpoints were the overall response rate during all treatment phases and minimal residual disease (MRD), based on the IMWG criteria that includes the next-generation ow by the EuroFlow®and PET-CT and the safety prole. An exploratory endpoint was the analysis of the immunologic change in the lymphocyte prole during the treatment. Methods: This is a phase II, open-label single-center clinical trial. The main



(n = 1) and rash (n = 1). Conclusion: This is the first study that

combined daratumumab with CTd as induction for NDMM TE

patients. This preliminary data has shown that the association

of Dara-CTd achieved a deep response with a safety prole.

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PRELIMINARY RESULTS OF DARATUMUMAB, CYCLOPHOSPHAMIDE, THALIDOMIDE AND DEXAMETHASONE: A QUADRUPLET INTENSIED TREATMENT FOR NEWLY DIAGNOSED MULTIPLE MYELOMA (NDMM) TRANSPLANT ELIGIBLE (TE) PATIENTS

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