

²⁰ Federal University of Bahia

²¹ Hospital de Amor da Amazonia, Fundação Pio XII, Rondonia

²² Hospital Santa Lucia, DF

²³ University of Modena and Reggio Emilia, Italy

²⁴ Medical Sciences Faculty of University of Campinas

Objective: T-cell Brazil Project was designed as an ambispective data collection from January 2015 to December 2022 of previously untreated patients diagnosed with Peripheral T-cell lymphoma (PTCL) or NK/T-cell lymphoma according to the revised WHO 2017 classification in Brazil. The primary and secondary end points were 2-year overall survival (OS) and progression-free survival (PFS). Clinical, treatment and survival data were also correlated. **Methodology:** Twenty centers got approved for the study from the local and national institutional review board and registered their cases only online. OS was calculated from diagnosis date until last seen or death date, whereas PFS until first event, progression / relapse, date of death or last seen. Kaplan-Meier method was applied and a Log-rank test to compare their curves. P-value less than 5% was considered. From a total of 416 patients with PTCL, 46 (11%) were diagnosed as AITL. **Results:** The median age was 65 years (31-82), with 63% males, 94% had advanced-stage disease. All patients received 61% CHOEP, 28% CHOP and 11% CT without anthracycline. 20% of pts were consolidated with autologous transplant (HSCT). There were 19 (41%) deaths, 10 by lymphoma, 8 infections, 1 new neoplasia. With 8-mo median f/u (1-36), OS at 24-mo was 27% and 2-year PFS was 21%. As consolidation, OS was 71% HSCT group vs. 16% no HSCT ($P=0.06$) and PFS was 71% vs. 8%, respectively ($P=0.01$). **Conclusion:** These analyses are preliminaries but show a poor outcome of AITL in our population. Most patients were treated with anthracycline-containing combination chemotherapy and just 20% received autologous HSCT. A dismal survival was shown for those who did not receive HSCT.

<https://doi.org/10.1016/j.htct.2021.10.972>

MYELOMA

OP 05

IMPACT OF BONE MARROW FIBROSIS IN MYELOMA PATIENTS UNDERGONE AUTOLOGOUS STEM CELL TRANSPLANTATION

Senem Maral¹, Murat Albayrak¹, Gülten Korkmaz², Simten Dagdas², Berna Afacan Öztürk¹, Aynur Albayrak², Ünsal Han¹, Merih Reis Aras¹, Gülsüm Özet²

¹ Diskapı Yildirim Beyazit Research and Training Hospital, Hematology Department

² Ankara City Hospital, Hematology Department

Objective: Autologous hematopoietic stem cell transplantation (aHSCT) after high dose chemotherapy is a standard treatment for multiple myeloma (MM) patients. The successful

aHSCT depends on collection of sufficient numbers of hematopoietic progenitor stem cells and sustained engraftment following infusion. The aim of the present study is to determine the the impact of bone marrow fibrosis (BMF) on the clinical outcomes of MM patients who underwent aHSCT. **Methodology:** Retrospectively, bone marrow trephine biopsy analyzed in 73 MM patients who were treated with hematopoietic stem cell transplantation (aHSCT) following bortezomib based induction regimen. The BM biopsy samples of all patients were re-evaluated by a single pathologists The patients divided into 4 groups according to fibrosis degree and the correlations in initial characteristic features, therapeutic response, survival, mobilization and engraftment outcomes were reviewed between the groups. **Results:** Comparative analyses revealed that the median apheresis number was found statistically different according to groups ($p=0.04$). No significance was detected between the fibrosis grade and the number of peripheral blood CD34+ cell collection results and recovery time of neutrophils and platelets. Overall survival and progression free survival were found similar in groups, however relapse of disease was statistically different in patients with fibrosis ($p=0.01$). **Conclusion:** After induction treatment, a regression was observed in fibrosis grade of patients who had fibrosis at the time of diagnosis. Therefore we suggest to evaluate fibrosis status in all MM patients during each histopathological examination. Difficulties may be experienced during stem cell collection in transplant eligible MM patients with fibrosis at diagnosis. Therefore, we recommend that clinicians should be more careful in these patients during the induction treatment and stem cell mobilization.

<https://doi.org/10.1016/j.htct.2021.10.973>

OP 06

INVESTIGATION OF THE QUALIFICATION OF RADIOLOGICAL TECHNIQUES TO DETECT OSTEOLYTIC LESIONS, FRACTURES, AND OSTEOPOROSIS IN MULTIPLE MYELOMA PATIENTS

Atakan Turgutkaya¹, İrfan Yavaşoğlu², Tuğba Şahin², Ali Zahit Bolaman²

¹ Aydın State Hospital

² Adnan Menderes University

Objective: Multiple myeloma(MM) is a malignancy of clonal plasma cells. Osteolytic lesions represent a criterion for symptomatic myeloma and are associated with bone loss, pathological fractures, and osteoporosis. Skeletal surveys with other sophisticated techniques and dual-energy x-ray absorptiometry (DEXA) are used to screen lytic lesions, and bone mineral loss, respectively. Here, we aimed to investigate the detection rate of osteolytic lesions and bone mineral loss by several imaging techniques in MM. **Methodology:** Three-hundred and ten symptomatic MM patients were screened retrospectively. The results of radiological techniques were recorded. The detection rate of osteolytic lesions, fractures, and plasmacytomas by imaging techniques, as well as bone mineral loss with DEXA was recorded. Also, associations with gender, MM type, lytic lesions, and osteoporosis were investigated. **Results:** Skeletal survey