**Introduction:** Diabetes mellitus is a state of chronic hyperglycaemia. In late stages of the disease, especially if it is not regulated well, chronic complications may occur, dominating the clinical picture. Osteoporosis is characterized by bone loss per volume unit leading to microarchitectonics disorder of the bone. Connection between diabetes and osteoporosis is very complex.

**Methods:** Medical documentation collected at daily hospital of Clinic of endocrinology, diabetes and metabolic disorders is used in this study. Sample includes 60 patients which have been diagnosed with diabetes mellitus, with or without complications, who underwent densitometry measurement (DEXA). Glycosylated hemoglobin (HbA1c), fasting glucose and postprandial glucose are used as parameters of giceregulation.

**Results:** Average duration of diabetes is 15.61 ± 9.63 years. Average value of HbA1c is 8.5 ± 1.79%, average value of fasting glucose is 9.23 ± 2.94 mmol/l and average value of postprandial glucose is 11.35 ± 4.27 mmol/l. 67% of patients have one or more complications. Bone mineral density (g/cm²) of femoral neck and total have significant negative correlation with HbA1c (p < 0.01). Bone mineral density of lumbosacral spine and femoral neck (g/cm², T-score) have light negative correlation with postprandial glucose.

**Conclusion:** Bone mineral density and parameters of giceregulation have negative correlation. Statistically significant correlations between bone mineral density and chronic degenerative complications of diabetes were not found.

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**PS022**

**Effect of autologous stem cell transplantation in patients with hematological malignancies**

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**Aim:** The aim of this study was to analyse available medical data of patients diagnosed with multiple myeloma (MM), lymphoma Hodgkin (MB) and non-Hodgkin (NHL) and acute leukemia (AL), who underwent ASCT, and to compare the results with the results from other scientific works.

**Introduction:** Autologous stem cell transplantation (ASCT) with high dose chemotherapy is effectible and safe approach in the treatment of different hematological malignancies. Nowadays, it is the standard therapy for multiple myeloma, lymphomas and acute leukemias.

**Methods:** Retrospective study included 84 patient diagnosed with MM, MH, LNH and AL who underwent ASCT, and to compare the results with the results from other scientific works.

**Results:** In relation to the underlying disease, the distribution of respondents was as follows: 35 patients with MM, 24 with NHL, 20 with MH and 6 with AL. Large volume apheresis procedure had to 75 patients (89.3%), and 9 patients (10.7%) had conventional two-day procedure. The mean value of processed blood volume amounted to 13050 ml. The average number of MNC in the apheresis product was 7.8 × 10⁸/kg bw, a CD34+ cells was 12.11 ± 106 kg bw. After the application of conditioning regimens, depending on the underlying disease, neutrophils engraftment occurs at 11 day and platelets engraftment at 14 day.

**Conclusion:** Analyzing data of the patients with hematological malignancies and ASCT conducted, we conclude that the mentioned procedure is successful method of treatment, with low transplant mortality and complications caused by the mentioned procedure.

**References**


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**Neurosciences Poster Session Thursday, September 14th, 16h00**

**PS088**

**D-Galactose high-dose administration and oral epigallocatechin-3-gallate effects on the dendritic trees of developing neurons of young male rats**

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