OPG, RANKL, RANKL/OPG RATIO, OPN IN POSTMENOPAUSAL WOMEN POPULATION

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The aim of this study is to evaluate the serum concentration of OPG, RANKL, RANKL/OPG ratio, osteopontin (OPN), bone-type alcaline phosphatase (BAP), serum-N-Telopeptide of type I collagen (serum-NTX), bone mineral density (BMD) in postmenopausal women population. A cohort of 163 women in postmenopausal, not in therapy for osteoporosis, has been followed up at the osteoporosis centre of Po whitico in Bari. The population with main age of 55,5 years (range 43-64), in menopause! is or ter since 2 years, has been divided into three separate groups, depending from their T-score: ost opporosis n. 28/163; osteopenic n. 100/163; normal n. 35/163. Comparison of the variations in the three groups has been executed through kruskal-Wallis test. Cor e ations have been calculated using Spearman's correlation coefficient. All values have been presented using me har a with range. The comparison among the three groups is significant for PANIL Kw=14.86, p=0, 1001), PANKL/OPG ratio (Kw=13.24, p=0.0013), NTX (Kw=11.92, p=0.0026) and OPN (Kw 7.53, p=0,022), but non for OPG and BAP. The correlation among co, sid are a variables has at own significant statistical variation in the group of osteopenic women: a regritive conclusion between JPO and RANKL (r_s=-0,242, p=0,0153), positive one between RANKL at a Or N (r_s =0,374, p :0,0721, TANKL and serum-NTX (r_s =0,213, p=0,033), OPN and serum-NTX /_s=0,465, r<0,000), Ol^N and RANKL/OPG ratio (r_s=0,261, p=0,0086), BAP and serum-NTX (r_s=0,510, p<0,0001), seri m-NTX and RANKL/OPG ratio (r_s=0,202, p=0,044). Our study shows an important variatior, of the bone metabolism markers including RANKL, OPG and OPN in postmenopausal women with a seriuos engagement of the bone turnover above all in the pre-osteoporotic phase.