Abstract

**Introduction and purpose:** Tuberculosis is one of the widespread infectious diseases and it is one of known oldest disease in human and also this disease is important factor of death all over the world that about 1/3 of population in world are contaminated to this disease. Cure of tuberculosis via anti-tuberculosis drug like Riphampin and Isoniazid is long-term, therefore it has influence over metabolism of calcium and Vitamin D. In some studies it has been seen that Riphampin in the start of Riketz and osteomalacia in Asian ills were important that received anti-tuberculosis drugs. This pilot study was done for review of Vitamin D metabolism in this disease.

**Material and methods:** 8 ills with or without of positive sputum smear was studied continuously that received anti-tuberculosis medicine. These 8 people hadn't any signs of alteration like: inexpressive chronic of kidney, diabetes mellitus, menopoze and or HIV. In this study before the start of cure and at the end of 5 month, they took one sample of serum in 2 ml from disease and send at once for measuring the level of Vitamin D, Calcium, Phosphorus, Albumin and level of parathormon hormone. After finishing of study they compared the average of calcium levels and Vitamin D and Parathormon and Albumin in before and after of cure in disease.

**Results:** In this survey was selected 5 men (62/5%) and 3 women (37/5%) with average of ages (36/38) and standard deviation 16/62 and weight average 59/88 wit standard deviation. From these diseases were 4 ills with positive sputum smear and 4 people with negative sputum smear, and 4 (50%) had positive PPD test and 4 had negative PPD test. Difference between averages of Vitamin D levels in before and after of cure in forth month was significant. In other cases with putting the averages of ranges of before cure as a fixed number, averages of Phosphorus, Albumin and parathormon levels, it had significant different with averages that access of ranges in starting of cure.

**Discussion and Conclusion:** In this study, Albumin levels increased significantly that eventually, it is reflect to improve illness appetite, nurture condition and eating of food. At the other side levels of calcium stayed fixed therefore levels of parathormon is high and it means that the decreasing of Vitamin D is compensated with increasing of parathormon levels for fixing of Calcium. So, body use of bones sources in the time of cure,. Fixed of calcium levels is in against of decreasing of Vitamin D level. Therefore in dangerous persons like suffering to stopeni and or riketz, it is probability that cure of anti-tuberculosis lead to bone taxes that is visible.