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## THE EVALUATION OF BONE MINERAL DENSITY AND OSTEOPOROSIS IN SCHIZOPHRENIC PATIENTS

F. Ranjbar<sup>1,2</sup>, M. Farjamfar<sup>3</sup>, A. Aliasgarzadeh<sup>4</sup>, M. Alizadeh<sup>5,6</sup>

<sup>1</sup>Psychiatry, Tabriz University of Medical Sciences, Faculty of Medicine, <sup>2</sup>Psychiatry and Behavioral Sciences Research Team of Tabriz University of Medical Sciences, Tabriz, <sup>3</sup>Shahrood University of Medical Sciences, Faculty of Medicine, Shahrood, <sup>4</sup>Endocrinology, Tabriz University of Medical Sciences, Faculty of medicine, <sup>5</sup>Community Medicine, Tabriz University of Medical Sciences, Faculty of Medicine, <sup>6</sup>EDC of Tabriz University of Medical Sciences, Tabriz, Iran

**Introduction and objectives:** Schizophrenic patients are prone to osteopenia and osteoporosis due to various reasons. No research has ever been conducted on this field in Iran.

Aims: The aim of this study was to determine the bone mineral density in schizophrenic patients.

**Methods:** In a cross- sectional and descriptive study with random sampling, we used (DEXA) to determine Bone Mineral Density (BMD) in the lumbar and neck femur region of 85 in- schizophrenics and they were compared with general population. Statistical analysis was done finally.

**Results:** Sixty eight of patients were males. The average age of males and females was  $39.61\pm 6.77$  and  $36.29\pm 7.58$  years respectively. The mean femur neck BMD of male and female patients were  $0.88\pm 0.16$  and  $0.87\pm 0.15$  respectively (Pv = 0.76). Mean lumbar BMD of male and female patients was  $0.94\pm 0.18$  and  $0.96\pm 0.14$  respectively (Pv = 0.761). Liner significant correlation was not found between age and femur neck BMD (P= 0.782). Liner significant correlation was found between femur neck BMD and lumbar BMD (P< 0.001). Frequency of osteopenia in patient with the age of 30-50 years was significantly higher than other patients (P= 0.011). Frequency of femur neck osteopenia and osteoporosis were 50.6% and 4.7% respectively and frequency of lumbar osteopenia and osteoporosis were 40% and 14.1% respectively.

**Conclusions:** Schizophrenic patients had lower bone mineral density than general population.