

## The correlation between calcium blood level and bone density level of osteoporosis at Rumah Sakit Ibu dan Anak Al-Fauzan in period of January 2012-December 2014

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### Abstrak

Objectives: Osteoporosis is condition where the bone becoming brittle and easily cracked or broken because of calcium deficiency. Osteoporosis can be diagnosed by Bone Mineral Density (BMD) test to know the decrease of their bone density. The objective of this study is to determine the correlation between calcium blood level and osteoporosis at Rumah Sakit Ibu dan Anak Jakarta Islamic Hospital Al-Fauzan in period of January 2012 – December 2014. Materials and Method: This type of research was analytical descriptive study by using cross-sectional design. The population of this study were 68 patients who had osteoporosis at Rumah Sakit Ibu dan Anak Al-Fauzan in period of January 2012 – December 2014 and with the proportion of 20% of samples taken in 61 patients. Results: The highest frequency distribution: age 61-70 years at 62,2%, female at 96,7%, and underweight Body Mass Index 57,4%. Conclusion: This study was using Chi Square test showed there is no correlation between calcium blood level and osteoporosis ( $p = 0,054$ )