**Scope of Study**

This study is proposed to determine the effects of thyroid disorders on long bones and vertebral column. Our study will be helpful for patients suffering with thyroid disorder either hypothyroid or hyperthyroid. This study will reveal the relation of hypothyroid, hyperthyroid and euthyroid with BMD, osteoporosis and vitamin D. This might be helpful for patients suffering with osteoporosis and thyroid diseases. We would be able to predict the strength of bone or suggest to thyroid patients for oral calcium or vitamin D according to thyroid hormones level. It will be helpful to decrease the risk of bone fracture in patients suffering with different types of thyroid diseases.

Moreover this study will explain the relation of different thyroid hormones level in different sex and ages with BMI and lipid profile. It might be helpful in predicting cardiovascular risk in patients suffering with thyroid disorders.