

## Clinical characteristics of Elderly Hip Fracture in Lerdsin Hospital

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**Objective:** The worldwide incidence of fragility fracture was increased including Thailand. The incidence of hip fracture was associated with an increasing in disability, morbidity and mortality particularly within one year after fracture. Awareness and identifying the causes of osteoporosis are the important management for reducing fracture in the future.

**Materials and methods:** A descriptive cross-sectional study to evaluate clinical characteristics and risk factors of elderly osteoporotic hip fracture in Lerdsin hospital, Bangkok, Thailand

**Results:** The total of 116 elderly osteoporotic fracture patients, who admitted in orthopedic department at Lerdsin hospital from 1 June 2016 to 31 May 2017 (12months) The total number of female was 84 patient, male 32 patient. (female 73.68%). The average age was 75.47 year (male 79.83 year, female 75.71 year). There are 100 patients (86.2%) who had medical conditions example hypertension (69%), diabetes (36.2%), cerebral disease (13.8% and cardiovascular disease (12.9%). Baseline laboratory for evaluation of osteoporotic fracture showed no significant abnormal. Interestingly, 82% of patients had low vitamin D level (< 30 ng/mL), average 23.5 ng/mL.

**Conclusion:** Elderly people particularly postmenopausal woman has high risk for hip fracture. Awareness and identifying the causes of osteoporosis especially low vitamin D level are an important management for reducing fracture in the future.