Hypovitaminosis D Among Patients Admitted With Hip Fracture to a Level-1 Trauma Center in the Sunny Upper Egypt: Prevalence and Associated Correlates

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Abstract:

Introduction: Despite abundant sunshine, hypovitaminosis D is common in the Middle East. The aim of this study was to determine the prevalence of hypovitaminosis D and related correlates among patients with hip fracture in Assiut University Hospitals in Upper Egypt. Materials and Methods: A cross-sectional study was carried out in 133 patients with hip fracture, aged 50 years and older, admitted to Trauma Unit of Assiut University Hospitals, from January through December 2014. Patients were selected by systematic random sampling. Serum 25-hydroxy vitamin D level was measured by enzyme-linked immunosorbent assay; bone mineral density (BMD) by dual-energy X-ray absorptiometry. Weight and height measurements were used for body mass index (BMI) calculation. Results: Patients’ median age was 70 years (range: 50-99); 51.9% were females. Osteoporosis (femoral neck T score:

Keywords:

hypovitaminosis D, prevalence, hip fractures, Egypt

Published In:

Geriatric Orthopaedic Surgery & Rehabilitation, Vol.7, No.3, PP.148-152