VERTEBRAL FRACTURES ARE LIKELY TO OCCUR IN LUMBAR VERTEBRA IN PATIENTS WITH OSTEOPOROSIS AND EVEN IN OSTEOPENIA


Background: Osteoporosis is a common disease, which can lead to fracture. New diagnosis includes fracture of the vertebral bodies and hips, T-scores of bone mineral density (BMD) less than 2.5 or osteopenia together with humeral, forearm or the pelvic fracture. Vertebral assessment should be considered in some conditions.

Objectives: Our study was to investigate the condition of osteoporosis in patients who underwent bone mineral density in our hospital and fracture status according to lateral X-ray of cervical, thoracic and lumbar vertebra.

Methods: Patients were enrolled from September to December in 2017 in the Third Affiliated Hospital of Sun Yat-sen University. Demographic information, past medical history, and clinical information were collected by two rheumatologists. Bone mineral density measured by Dual Energy X-ray Absorptiometry was performed based on clinical needs. Patients with osteoporosis or osteopenia were asked to have X-ray scan of cervical, thoracic and lumbar vertebra. The Statistical Package for Social Sciences (SPSS) software version 21 was used for all data management and analysis.

Results: Of all the 210 patients, 60 (28.6%) were male patients. 59.5% of female patients were in post-menopause stage. Mean age was 57.60±13.17 years. 124 patients were asked to perform BMD by the rheumatologists. 20 patients did the test after they saw an endocrinologist. 40 patients did the test after they saw an orthopedist. 102 patients had T-scores less than 2.5. 61 patients had osteoporosis according to BMD. 22 patients had fracture according to past history or X-ray scans’ findings. 10 patients had multiple fractures. The most frequent fractures were located in L1 (nine patients) and L2 (four patients). The other parts included L3, L5, C7, T12, T8, and T9. Two patients had ankle or humeral fractures before because of injury. Vertebral fractures were recorded in 5 (8.2%) of the patients with T-scores of −2.5 to −1 during this study.

Conclusions: Lateral X-ray scans of the vertebra can detect vertebral fractures in patients with osteoporosis according to BMD scores, even in patients less than 50-year-old. Osteoporosis could be underestimated without measurement of the vertebra. The most frequent vertebra fracture happens in L1.

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Disclosure of Interest: Y. Jiang: None declared, D. Lin: None declared, X. Guo: None declared, M. Zhao: None declared, L. Fang: None declared, Z. Chen: None declared, X. Li: None declared, X. Zheng: None declared, Z. Liao: Grant/research support from: National Natural Sciences Foundation of China [grant number 81201372], J. Gu: Grant/research support from: the 5010 Subject of Sun Yat-sen University (2007023)


INTRAVERTEBRAL NERIDRONATE IN THE TREATMENT OF BONE MARROW ODEMA SYNDROME: EFFICACY AND SAFETY OF TWO DIFFERENT TREATMENT SCHEDULES

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Background: Bone Marrow Oedema Syndrome (BMES) is a severely disabling pain syndrome without a definite treatment well established.

Objectives: The aim of this monocentric prospective trial was to test the efficacy and the safety of the amino-bisphosphonate neridronate in patients with BMES administered in two different schedules.

Methods: one hundred seventy-three patients with BMES at various joints were consecutively assigned to I.V. infusion of 100 mg neridronate given four times over 10 days (Group A) or alternatively to I.V. infusion of 100 mg every 21 days over 3 months or alternately every 3 days over 10 days are associated with clinically relevant and persistent benefits without significant differences between the two treatment-schedules. These results provide conclusive evidence that the use of bisphosphonates, at appropriate doses, is the treatment of choice

Disclosure of Interest: None declared


PATIENTS COMPLIANCE TO CHRONIC GOUT THERAPY WHEN ADMINISTERED BY DIFFERENT MEDICAL PROFESSIONALS

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Background: in everyday practice chronic gout patients are frequently consulted by general practitioners, surgeons, cardiologists and other specialists. In general, chronic gout patients have to be quite compliant, but it remains unclear whether low compliance depends on the specialty of the prescribing physician.

Objectives: to compare the clinical course of gout in patients consulted by different specialists and to identify factors of low patients’ compliance in Russia.

Methods: cross-sectional study included 56 chronic gout patients aged 31 to 82 (median 54 years). Average gout symptoms duration was 6.8 years, average attacks frequency was 6.4 per year. Tofl were present in 21.4% of patients. All subjects were divided into three groups: Group 1 consisted of treatment naive patients at primary rheumatologist visit, Group 2 and Group 3 included patients who had previously been treated. Group 2 subjects were visiting both non-rheumatologists and rheumatologists. Group 3 were managed by rheumatologists strictly according to the EULAR evidence-based recommendations.

Results: Group 1 primary consulted rheumatologists at the age of 47.3±14.5, Group 2 patients were assessed at the age of 58.4±15.2, and Group 3 were aged 51.2±13.5. Disease symptoms duration was maximal in Group 2 (10.6±10.6 years) while 5 years in Groups 1 and Group 3. Flares frequency was the lowest in Group 3 (2.2±1.8 per year), while in Group 2 it was extremely high – (10.58±10.56 per year). The incidence of tophi and urolithiasis was lowest in the Group 3 whereas every third treatment naïve patient had tophi or/and urolithiasis. To relieve gouty arthritis vast majority of patients used NSAIDs, though at 50% strength of the recommended dose. The use of colchicine was 17% in Group 2 and 15% in Group 1. Tofl were present in 21.4% of patients. All patients at primary rheumatologist visit, Group 2 and Group 3 included patients who had previously been treated. Group 2 subjects were visiting both non-rheumatologists and rheumatologists. The most frequent urate-lowering therapy (ULT) was allopurinol, it was taken only by 63% of patients of the third group and 35.7% in the second group. While patients in the third group took the drug daily, the other patients did not follow the administration scheme. Serum creatinine level was the lowest in treatment naïve Group 1 (102.7±30.0 µmol/L), while Group 2 levels varied between 546–546 µmol/L, being the highest (625 µmol/L) in treatment naïve Group 1.

CONCLUSIONS: chronic gout patients’ compliance and quality of patient management can be assessed as alarmingly low. Rheumatologists adhering to EULAR evidence-based approach to gout management can actually achieve recommended treatment targets. Both general practitioners and other specialists are in need of consistent educational program on gout management. Younger and comorbidity-free gout patients should be encouraged to follow attending physician’s recommendations.

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Disclosure of Interest: None declared