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

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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 pelvis facture. Vertebral assessment should be considered in some conditions.1

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. 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. 40 patients did the test after they saw an endocrinologist. 22 patients had fracture according to past history or X-ray test after they saw an endocrinologist. 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, T6, T8, and T9. Two patients had ankle or humeral fractures before because of injury. Vertebral fractures were confined 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 vertebral fracture happens in L1.

REFERENCE:

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INTRAVENOUS 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 63 days (Group B). At baseline (T0) and after 90 days from the first infusion we performed a MRI (T2). We assessed a 0–100 mm pain VAS in each patient at T0, at the day of the last infusion (T1: day 10 for group A and day 63 for group B) and at T2. Primary outcome was to evaluate the MRI changes, secondary end-point was the VAS change.

Results: we observed a significant improvement in MRI with the resolution of bone marrow oedema present at T0 (p<0.01), without a significant difference between Group A and Group B. Visual analogue scale (VAS) score decreased significantly during the study in both groups (p<0.05) without a significant difference between the two treatment groups (p>0.1).

Conclusions: In patients with BMES, the infusions of neridronate 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 in BMES

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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 been reported to be quite incontinent, but it remains unclear whether low compliance depends on the specialty of the prescribing physician.1

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. Tol'f 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.2

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 – (10.5±10.6 per year). The incidence of tol'f and uricostasis was lowest in the Group 3 whereas every third treatment naive patient had tol'f or/and uricostasis. To relieve gout arthritis vast majority of patients used NSAIDs, though at 50% strength of the recommended dose. Only 9%–14% of flares were controlled by colchicine in Groups 2 and 3. Colchicine prevention of flares was prescribed only in 45% of cases by 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 (87.5±16.8 μmol/L) in Group 3, being the highest in treatment of naïve patients (102.7±30.0 μmol/L). Serum uric acid target level was achieved only in the compliant Group 3 patients (343 μmol/L), while Group 2 levels varied between 462–546 μmol/L, being the highest (625 μmol/L) in treatment naïve Group 1.

Low compliance risk factors were: age under 45, absence of comorbidity and long term multiple drugs consumption.

Conclusions: chronic gout patients’ compliance and quality of patient management can be assessed as alarming 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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