depression was 20% and 25% among T2T achievers; and 31% and 38% for the non-T2T group, respectively (p = 0.4, p = 0.5). The percentages of wrist synovitis in osteoporotic patients was higher than osteopenic patients (62.5% vs 25% respectively, p=0.041). Results also showed a correlation between BMD and doppler mode grade 3 (83%vs 16.7 respectively, p=0.014).

Conclusion: This study shows a highly significant correlation between the BMD of the wrist and synovitis. Local inflammation of the wrist is an important factor of local bone loss that should be acted upon in order to avoid fractures, especially Colles’ fracture.

REFERENCES


AB0358 WRIST BONE MINERAL DENSITY AND WRIST SYNOVITIS IN RHEUMATOID ARTHRITIS

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Background: Bone involvement in rheumatoid arthritis is characterized by focal articular bone loss around inflamed small joints of the hands.[1] Therefore, precise quantification of hand bone loss may predict the severity and the progression of the disease.

Objectives: The aim of this study is to find a correlation between wrist bone mineral density (BMD) and sonographic wrist synovitis in patients with rheumatoid arthritis (RA).

Methods: RA patients were examined by bone mineral density (BMD) measurement of the wrist using dual-energy X-ray absorptiometry (DXA) according to standard protocols for positioning and analysis (area measured at a level of 33%). Patients were diagnosed as having osteoporosis when Gray Scale T-score measured was less than -2.5 SD, osteopenia T score between -2.5 and -1 SD [2]. Ultrasound of the wrist was done by an operator with experience in musculoskeletal ultrasound with an esote My lab60 machine. The wrist joint (inferior radio-ulnar joint, medio-carpal joint and ulnar recessus) was assessed on dorsal side in Gray and Power Doppler (PDUS) scales. Semi-quantitative score was used to sum the synovitis score.[3]

Statistical analysis comparing synovitis and BMD was performed using Kruskal Wallis Test, a non-parametric test (Mann–Whitney U-test) and chi-square, as appropriate.

Results: The study included 24 RA patients with female predominance (sex ratio=0.3). The mean age was 59.3 [47-71] years-old. The duration of the disease was 10.2 years [6-23] and the body mass index was 27.3 (18.97-36.98) kg/m2. RA was erosive in 75% of cases. Sixty-seven percent of patients received calcium supplementation. All women experienced already menopause. Most of them (75%) were on corticosteroids.

Conclusion: There was no correlation between BMD of the wrist and the disease duration as well as the activity of the disease DAS28 VS BMD (respectively r = 0.4, p = 0.5). The percentages of wrist synovitis in osteoporotic group were significantly higher than in osteopenia group (81.8% vs. 66%, p=0.03).Moreover, Gray scale grade 3 synovitis in osteoporotic patients was higher than osteopenic patients (62.5% vs 25% respectively,p=0.041). Results also showed a correlation between BMD and doppler mode grade 3 (83%vs 16.7 respectively,p=0.014).


AB0359 TREATING STRATEGY FOR ELDERLY RHEUMATOID ARTHRITIS PATIENT, ESPECIALLY WHOSE AGE IS MORE THAN 75

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Background: A population of elderly rheumatoid arthritis (ERA) is increasing, probably due to treatment developed and simply elderly population increase. In aging, functional activity in daily life, immunity, especially T-cell function, and neural response decline and deteriorations become manifested. Treatment must not be same as that of young patient.

Objectives: To evaluate our treatment method and strategy for ERA.

Methods: From August 2010 to July 2015, 576 patient who have been treated in the institute continuously for more than 3 years were referred. In these, patients were classified in according with age at baseline (BL); younger than 65 (G-Y), from 65 to 74 (G-O), and no less than 75 (G-OO). Mean 28-joints disease activity score (DAS28), Health Assessment Questionnaire Disability Index (HAQ), Pain Score with visual analog scale (PS-VAS), drug administration history and dosage, were recorded. For ERA, we have adopted a treating strategy called ‘Touch Down Strategy’, what configures three tactics; 1) From BL, methotrexate (MTX) 5mg/week or tacrolimus (TAC) 1.5mg/day administer. 2) Increase or maintain drug dosage until clinical remission is attained or start bDMARDs when remission is not attained in 3 months, and in case, glucocorticoid (GCS) administered with every other month interval. 3)When clinical remission is attained, GCS tapering started immediately and csDMARDs tapering considered. Tapering of bDMARDs is the last order. ERA patients were treated under these tactics. Monitored DAS28, HAQ score and PS-VAS were calculated for each group and compared with ANOVA with Bonferroni correction.

Results: HAQ at baseline demonstrated significantly higher in G-OO than other groups. Prevalence of DAS28 remission were 76.4%, 89.6%, and 87.2%, while mean length from BL to DAS28 remission was 2.9, 2.5 and 4.0 months for G-Y, G-O, and G-OO, respectively. bDMARDs administration ratio was 19.8%, 20.6%, and 18.0%, while mean MTX dosage was 8.6mg, 8.6mg, and 7.4mg/week for G-Y, G-O, and G-OO respectively. GCS administration ratio and mean dosage until DAS28 remission were 24.2% and 2.96mg, 30.0% and 2.14mg, and 42.6% and 2.71mg/day, while after remission 19.3% and 5.68mg, 21.1% and 4.85mg, and 26.4% and 2.14mg/day for G-Y, G-O, and G-OO, respectively (Table).

Conclusion: Our Touch Down Strategy can work effective for ERA, especially for elderly ERA whose age is over 75 years old. Just by doing take care for risk of comorbidities, ERA can be well controlled their disease activity.