depression was 20% and 25% among T2T achievers and; 31% and 38% among T2T failures, respectively (p<0.05, p=0.05).

According to DAS28, the prevalence of anxiety (A) and depression (D) with DAS28 were rA=0.9318 and rD=0.9334, respectively. It suggested that with the increase of disease activity, the proportion of RA patients with anxiety and depression increased significantly.

Combined with physical function evaluation results, the overall prevalence of anxiety (23.65%) and depression (33.20%) in the normal HAQ group was significantly lower than that in the abnormal HAQ group (A: 36.37%, D: 43.19%, x² = 4.52, x² = 6.21, p<0.05, p<0.05). 30.50% of the patients with HAQ<0 and DAS28<2.6 were still depressed. The analysis showed that these subgroup patients comorbid with other rheumatic diseases (SS 37%, SLE 15%) or suffer adverse events (abnormal WBC count: 19%, abnormal liver function: 15%) during treatment.

Conclusion: Higher prevalence of anxiety and depression were associated with higher levels of disease activity and worse physical function. Rheumatoid arthritis and adverse events (ADEs) were potentially associated with depression in the Rem subgroup patients with normal physical function. SSDM is an effective mobile interface to monitor and study entanglement of disease activity, physical function and mental health in RA patients, which build a foundation for proactive interventions in future.

Disclosure of Interests: None declared


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 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 [9.83-23] 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 at the average dose of 5 mg [5-15], two of whom were not supplemented. Only one quarter of patients had physical activity. BMD showed that 45% of patients suffered from osteoporosis and 25% are osteopenic with a mean T-score of -1.92 [-4.3; 1.4] and mean bone mass of 0.475 g/cm²[0.239,0.712]. Forty-eight wrists were assessed by ultrasound. Medio-carpal joint was the most affected in Gray scale and Doppler. Fifty-eight percent of patients had moderate to severe synovitis when combined scoring was used. Twenty nine percent of patients (29.1%) had grade 3 at Gray Scale and 25% had Doppler scale grade 3.The wrist BMD (T-score) in RA with high disease activity was lower than those with moderate or low disease activity (-2.21 vs -2.05 and -2.21 vs 0.6 respectively; p=0.431). There was no correlation between BMD of the wrist and the disease duration as well as the activity of the disease DAS28 VS respective p = 0.4, p = 0.59. The percentages of wrist synovitis in osteoporosis 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 mod 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


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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/wk 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/wk, for G-Y, G-O, and G-OO respectively. GCS administration ratio and mean dosage until DAS28 remission were 24.2% and 2.96mg, 38.0% and 2.41mg, and 42.6% and 2.71mg/day, while after remission 19.3% and 5.68mg, 21.1% and 4.58mg, and 30.50% of the patients, respectively (P A<0.05, P D<0.05). 30.50% of the patients had moderate to severe synovitis when combined scoring was used. Twenty nine percent of patients (29.1%) had grade 3 at Gray Scale and 25% had Doppler scale grade 3. The wrist BMD (T-score) in RA with high disease activity was lower than those with moderate or low disease activity (-2.21 vs -2.05 and -2.21 vs 0.6 respectively;