lower than in the G-3, whereas no significant difference of these parameters after Baseline demonstrated between in the G-2 and G-3. TJC, SJC, PGA, and EGA demonstrated significant less level in the G-1 than in the other two groups. The mean SDAI score at the time of first achievement of Boolean remission in the G-1 and G-2 were 1.08 and 2.57, respectively. The mean value of SDAI score after remission in the G-1 and G-2 were 3.35 and 6.44, respectively. These values and PS-VAS including change of the SDAI score demonstrated significant difference between the two groups (p < 0.01), whereas HAQ-DI in the two groups demonstrated no significant difference.

Conclusion: These results suggested that setting PGA as no more than 10mm should be reasonable for the evaluation of clinical remission with the Boolean criteria.

Disclosure of Interests: None declared

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AB0101

THE IMPACT OF TIME SPAN TO ACHIEVE BOOLEAN REMISSION FOR MAINTAINING DISEASE ACTIVITY AFTER ACQUISITION IN RHEUMATOID ARTHRITIS PATIENT

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Background: Boolean remission criteria is one most popular and stringent criteria for evaluating patients with rheumatoid arthritis (RA), because it may guarantee a stable clinical course after attaining remission.

Objectives: Impact of time span from initiation to achieving Boolean remission on maintaining disease activity, daily activities, and quality of life after attaining Boolean remission was investigated from daily clinical practice data.

Methods: 685 patients with RA since August 2010 under the T2T strategy were treated. They were monitored for their TJC, SJC, PGA, EGA, PGA, and disease activity indices such as CDAI, SDAI, DAS28, and Boolean criteria at every visit. HAQ-DI score, pain score using visual analog scale (PS-VAS), and EQ-SD were also monitored, and the quality of life score (QOLS) calculated from EQ-SD was determined at every visit from the time of diagnosis (baseline).

Of 685 patients, 465 patients had achieved Boolean remission > 1 times, and were consecutively followed up after for more than 3 years. These patients were enrolled in this study. Time span from the first visit to first Boolean remission was calculated. The relationship between the time span and each of the mean values of the SDAI score, HAQ score, PS-VAS, SHS, and QOLS at the first Boolean remission and thereafter was evaluated statistically.

Patients were subsequently divided into the G ≤ 6 and G > 6 groups based on the achievement of first Boolean remission within two groups: time span G ≤ 6 months and G > 6 months. The two groups were compared with regard to the SDAI score, HAQ score, PS-VAS, SHS, and QOLS at first visit and at the time of first Boolean remission, and the mean values of these parameters after remission were evaluated statistically. Moreover, changes of these parameters and the mean Boolean remission rate after the first remission, and SDAI remission rate at the first Boolean remission to thereafter were compared between the two groups statistically.

Results: Out of 465 patients, females comprised 343 (73.7%), and the mean age was 67.8 years (range, from 21–95 years). The mean disease duration at first visit was 6.1 years (range, from 1 months–45 years). The mean follow up length was 88.1 months (range: 36–122 months; median: 85 months) and mean time span from the first visit to the first Boolean remission was 8.1 months. The mean SDAI score, HAQ score, PS-VAS, and the QOLS at first visit were 133.3, 0.467, 33.2, and 0.834, respectively. Among the study parameters, PS-VAS and QOLS were significantly correlated with the time span. For parameters at the first Boolean remission, HAQ-DI score, PS-VAS, and QOLS demonstrated significant correlation with the time span, whereas SDIA, HAQ-DI score, PS-VAS, SHS, and QOLS after the Boolean remission demonstrated significant correlation with the time span.

The comparison between the G ≤ 6 and the G > 6 groups revealed that the disease duration, HAQ score, and PS-VAS at baseline in the G > 6 were significantly higher than that in the G ≤ 6 group. Similarly, the HAQ score and PS-VAS at the first Boolean remission in the G > 6 group were significantly higher than that in the G ≤ 6 group at baseline. Similarly, the HAQ score and PS-VAS at the first Boolean remission in the G > 6 group were significantly higher than that in the G ≤ 6 group, whereas QOLS in the G > 6 group demonstrated no significant difference compared with that in the G ≤ 6 group. The mean value of the SDAI score after the first Boolean remission in the G > 6 group was significantly higher than that in the G ≤ 6 group. Similarly, the SDAI score, HAQ score, and PS-VAS after the first Boolean remission in the G > 6 group were also significantly higher than those in the G ≤ 6 group, and the mean values of TJC, SJC, PGA, and EGA in the G > 6 group were significantly higher than in the G ≤ 6 group. The Boolean remission rate and SDAI remission rate after the first Boolean remission were significantly higher in the G ≤ 6 group than those in the G > 6 group.

Conclusion: Attaining Boolean remission ≤ 6 months for RA has significant benefit for more stable disease control, that leads good maintenance of ADL.

Disclosure of Interests: None declared

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AB0102

EVALUATOR'S GLOBAL ASSESSMENT REFLECTS DISEASE ACTIVITY BUT NOT LINEARLY CORRELATES WITH DAILY ACTIVITY OR QUALITY OF LIFE COMPARED TO PATIENT GLOBAL ASSESSMENT

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Background: Evaluator's global assessment (EGA) is the one component of indexed disease activity evaluation assessed by the rheumatologist for treatment of rheumatoid arthritis (RA). It does not include in the Boolean remission criteria nor 28-joints disease activity score (DAS28), however it is widely recognized among rheumatologist as an only comprehensive and objective assessment parameter.

Objectives: The aim of this study is to evaluate how EGA correlates with other components and the influence of EGA on disease activity and daily activity, and quality of life.

Methods: A total of 24,075 times of monitoring out of 683 RA patients who were followed up for more than three consecutive years was performed. Contents of monitoring include: monitoring of TJC, swollen joint count (TJC), swollen joint count (SJ), patient's global assessment (PGA), EGA, C-reactive protein (CRP), and calculated values of DAS28, SDAI, composite index of Boolean evaluation, pain score with visual analog scale (PS-VAS), Health Assessment Questionnaire Disability Index (HAQ-DI), and quality of life score (QOLS) calculated from Euro-QOL questionnaire with 5th dimensions. Each measurement was classified with the EGA score divided ten increment from zero to ten. Mean values of DAS28, CDAI, SDAI, remission rate of these indices and remission rate and mean values of PS-VAS, HAQ-DI, and QOLS were statistically evaluated. Results were compared to the results that was analyzed in according to the PGA score substituted with the EGA score.

Moreover, EGA at the time of Boolean remission of the patients who achieved Boolean remission at least once during treating were picked up. Patients were classified according to the EGA level with 0.5 increment from zero. Mean value of TJC, SJC, PGA, EGA, SDAI, Boolean remission rate, HAQ-DI, and PS-VAS after attaining Boolean remission were compared statistically.

Results: Number of measured counts 15424, 2001, 3688, 1731, 664, 293, 144, 88, 29, 2, and 11 for each level of EGA. The EGA score tended to concentrate more in zero to two in comparing to the PGA score. Mean DAS28, CDAI, SDAI demonstrated significant increase as the EGA level increased, and remission rate of the all indices including Boolean demonstrated significant decrease as the EGA level increased (p < 0.01%). CDAI, SDAI, and Boolean remission rate demonstrated zero percent from two. Mean value of PS-VAS and HAQ-DI score demonstrated also significant decrease as the PGA level increases, and QOLS demonstrated significant decrease as the EGA level increases (p < 0.01%). However, these tendency showed more irregular compared to that analyzed with the PGA score. Correlation coefficients with regarding to the EGA score was always less than that with regarding to the PGA score.

In the patients who achieved Boolean remission, EGA levels were divided with 294 with zero (G-0) and 118 with 0.5 (G-5), whereas 71 could not achieve Boolean remission; Average TJC (p < 0.05), SJC (p < 0.001), EGA (p < 0.01), CRP (p < 0.05), and SDAI (p < 0.01) level in the G-0 group demonstrated significant less than in the G-5 group, whereas PGA, Boolean remission rate, HAQ-DI, and PS-VAS demonstrated no significant difference in between the two groups.

Conclusion: It is more reliable to estimate daily activity and quality of life from the PGA score than to estimate from the EGA score. EGA correlates with SJC and CRP more strongly than with TJC and CRP. EGA does not reflect HAQ-DI and PS-VAS.

Disclosure of Interests: None declared

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AB0103

THE ACCURACY OF ADMINISTRATIVE HEALTH DATA FOR IDENTIFYING PATIENTS WITH RHEUMATOID ARTHRITIS: A VALIDATION STUDY USING MEDICAL RECORDS IN WESTERN AUSTRALIA

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Background: The use of large administrative health datasets is increasingly important in Rheumatology for disease trends and outcome research (1). We aimed to evaluate how administrative health data could be used to identify RA patients in Western Australia.

Methods: The use of large administrative health datasets is increasingly important in Rheumatology for disease trends and outcome research (1). We aimed to evaluate how administrative health data could be used to identify RA patients in Western Australia.

Results: The use of large administrative health datasets is increasingly important in Rheumatology for disease trends and outcome research (1). We aimed to evaluate how administrative health data could be used to identify RA patients in Western Australia.

Conclusion: The use of large administrative health datasets is increasingly important in Rheumatology for disease trends and outcome research (1). We established the West Australian Rheumatoid Disease Epidemiological Registry.