AB0502

DRUG SURVIVAL ANALYSIS OF TOFACITINIB IN PATIENTS WITH RHEUMATOID ARTHRITIS

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Background: The drug survival rate of tofacitinib in patients with Rheumatoid Arthritis (RA) has not been reported so far.

Objectives: To determine the tofacitinib drug survival rate and the factors that may affect it in patients with RA from a single rheumatology clinic.

Methods: We have retrospectively analysed the track records of RA patients to whom tofacitinib was prescribed between June 2014 to December 2017. Descriptive analysis includes sex, duration of disease, autoantibody association, smoking, major trauma exposure, initiation in DMARD/Anti-TNF resistant patients, monotherapy/use in combination with DMARD. According to the duration of the disease, the patients were grouped as early (0–4 year), established (5–10 year), and late RA (>10 year).

Drug survival was estimated using Kaplan-Meier survival analysis, and the independent variables that may affect the discontinuation were investigated by log-rank test and modelled by Backward Stepwise Cox regression analysis. Tofacitinib was prescribed to patients who were resistant to at least three types of csDMARDs. Low- dose Steroid (below 10 mg) and NSAID drugs were used as needed.

Results: During the study period, 192 (163 F, 85%) patients were prescribed tofacitinib in our clinic. Median age was 56.2–61 years, the median age at onset was 45.2–72 years, and median disease duration was 10.4–46 years. In this study, the ratio of RF and anti-CCP positivity were 63% and 60%, respectively. 33% of patients were seronegative. The patients with a smoking history were 26%, and exposure to major trauma was 16%. 15% of patients were early, 31% established, and 54% late RA.

Tofacitinib was prescribed in 92 (48%) bio-naïve and 100 (52%) bio-experienced patients. It was used as monotherapy in 112 (58%) and in combination with csDMARDs in 80 (42%).

The drug survival rates in Kaplan Meier analysis were 77% at 3rd, 69% at 6th, 62% at 12th, 54% at 18th and 49% at 24th, 49% at 30th months. Tofacitinib was discontinued in 51 (27%) patients due to no response and in 22 (11%) patients due to side effects. None of the independent variables in regression analysis showed a relationship to tofacitinib discontinuation (p>0.05). During the follow-up period, one patient had breast cancer, and one had recurrent pneumonia. There were no tuberculosis or shingles cases reported. Two patients died from pulmonary thromboembolism.

Conclusions: We found that drug survival rates of tofacitinib in RA patients were 77% at 3rd month, 69% at 6th month, 62% at 12th month, 54% at 18th month and 49% at 24th month, 49% at 30th months. The main cause of discontinuation of the drug was inefficiency and the loss of efficiency. We could not find any link between the predetermined independent variables and the drug discontinuation. This result raises questions about why the drug loses its efficacy in some patients in time, and how this could be preventable.

Acknowledgements: One of the theories of autoimmunity is that Damage-Associated Molecular Patterns (DAMPs) may give rise to autoimmune inflammation. We were curious about how many of patients suffered from major trauma, which was defined as accidents terminated with fractures and dislocations or falls from a height of at least three metres.

Disclosure of Interest: None declared


SLE, Sjögren’s and APS – treatment

AB0503

THERAPEUTIC STRATEGY AND SHORT-TERM OUTCOME IN NEUROPSYCHIATRIC SYSTEMIC LUPUS ERYTHEMATOSUS

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Background: The treatment of neuropsychiatric systemic lupus erythematosus (NPSSLE) is extremely challenging and only a few clinical trials have been performed to establish optimal management.

Objectives: To describe the therapeutic approach and the short-term outcome of a multi-centre cohort of patients with NPSSLE, enrolled at the time of the first NP event.

Methods: This is a retrospective cohort study. All NP events were defined according to American College of Rheumatology (ACR) case definition and divided into 3 clusters: central/diffuse (C/D), central/local (C/F) and peripheral (P). A validated attribution algorithm was used to determine the attribution of all NP events. Demographic variables, global SLE disease activity index (SLEDAI-2K), cumulative organ damage (SILC/ACR Damage Index (SDI) and treatment adopted for NP manifestations were collected. The clinical outcome of all NP events was determined by a physician-completed seven-point Likert scale (1=patient demise, 2=much worse, 3=less, 4=no change, 5=improved, 6=much improved, 7=resolved). The relationship between the variables of interest and the outcome was analysed by crude and adjusted logistic models and reported as Odds Ratio (OR) and 95% confidence intervals (95% CI).

Results: 461 SLE patients with at least one NP event were included. 91.8% of patients were female, mean (SD) age 35.4 (13.6) years. 19.7% (91) of events were observed at diagnosis of SLE, 13.4% (62) before and 66.8% (308) after the diagnosis. 111 events (24.1%) were C/F, 286 (62%) C/D and 64 (13.9%) P. 198 (42.9%) of all NP events were attributed to SLE. The overall probability of immunosuppressive therapy was 28.4% (95% CI 24.3–32.8), 38.7% (95% CI 29.6–48.5) in C/F, 21.3% (95%CI 16.7–26.5) in C/D and 42.2% (95%CI 16.7–26.5) in P. The probability of immunosuppressive therapy was 47.9% (95% CI 40.8–55.2) in attributed events. The one-year outcome was available in 355 patients. Physician assessment indicated resolution (76 patients) or improvement (91 patients) or no change (150 patients) in 249 (461) cases. The crude and adjusted OR of attributed NP events and immunosuppressants on a favourable outcome is illustrated in Figure 1. The multivariable logistic regression analysis was done adjusting for age at diagnosis of SLE [OR 0.96, 0.94–0.98] p=0.001, female gender [OR 0.97, 0.33–2.7] p=0.959, SDI [0.85, 0.68–1.08] p=0.202, SLEDAI-2K [1.06, 1.01–1.11] p=0.008 and type of event (F/C) [REF, C/D [0.37, 0.16–0.83] p=0.016, P [0.54, 0.21–1.42] p=0.215].

Abstract AB0503 – Figure 1. Crude and adjusted OR of attributed NP events and induction immunosuppression (IS, Figure 1A) or start/increase IS (Figure 1B) on a favourable outcome

Conclusions: In our study, the therapeutic immunosuppressive approach was mostly used in attributed, C/F and P manifestations. In patients treated with immunosuppressants, the favourable outcome was lower in C/D phenotype.

Disclosure of Interest: None declared


AB0504

EFFICACY OF PROLONGED MAINTENANCE MONOTHERAPY WITH RITUXIMAB IN PATIENTS WITH PRIMARY SJÖGREN’S SYNDROME: THREE-YEAR FOLLOW-UP

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Background: There are currently no effective systemic therapies of primary Sjögren’s syndrome (pSS); however, open label series have suggested that rituximab may be beneficial for systemic and glandular manifestations.

Objectives: To estimate clinical efficacy and safety of prolonged maintenance B-cell targeted monotherapy for pSS.

Methods: 25 with pSS ACR-EULAR criteria, 2016 were included in this research. Indications for treatment were significant immunological activity (high titres of rheumatoid factor (RF) and anti-nuclear antibodies) and/or hypogammaglobulinaemia in 20 patients, parotid enlargement (lymphoma was excluded) – 5, arthritis – 3, lymphadenopathy – 3, severe keratoconjunctivitis sicca in 7, of them concomitantly

Disclosure of Interest: None declared

Severe cutaneous adverse drug reactions: a nationwide population-based study

Correction:

1. In the sentence "Clinical remission on treatment: year 1: 43% (B) vs. 84% (C), p<0.05; year 2: 70% (B) vs. 87% (C), p<0.05; year 3: 73% (B) vs. 88% (C), p<0.05; year 4: 73% (B) vs. 93% (C), p<0.05; year 5: 73% (B) vs. 93% (C), p<0.05.

The sentence should be corrected to say: "Clinical remission on treatment: year 1: 43% (B) vs. 84% (C), p<0.05; year 2: 70% (B) vs. 87% (C), p<0.05; year 3: 73% (B) vs. 88% (C), p<0.05; year 4: 73% (B) vs. 93% (C), p<0.05; year 5: 73% (B) vs. 93% (C), p<0.05;"