Background: Cardiovascular diseases (CVD) are leading cause of morbidity and mortality in patients (pts) with psoriatic arthritis (PsA). An abnormally prolonged and shortened QT interval are associate with an increased risk of ventricular arrhythmias and sudden cardiac death.

Objectives: to evaluate QT interval during Holter monitoring and cardiovascular (CV) risk assessment using SCORE (Systematic COronary Risk Evaluation) in early PsA (EPSA) pts.

Methods: We included data of 48 (F=23) DMARD-naive EPSA pts (according to the CASPARR criteria) with no history of CVD: mean age= 36 ± 10 years, EPSA duration = 6.9 ± 10 months, DAS = 3.97 ± 3.27, CRP= 19.4 ± 37.6 mg/l. Controls subjects were matched by age, sex (n=48). All pts were assessed for traditional risk factors of CVD, ESC guidelines, 2016 24 hour (24 hour) ECG monitoring were analysed for QT interval corrected for heart rate (QTc). Prolonged QTc was defined as > 460 ms in women and >450 ms in men, short QTc < -330 ms. Ten-year risk of CV death was estimated using SCORE algorithms, ESC guidelines, 2016 categorised as low (<1%), intermediate (1% to <5%), high (≥5% to <10%) or very high (≥10%). Intima-media thickness of the carotid artery (c-IMT) was measured using a high-resolution B-mode ultrasound machine.

Results: QT interval during the 24 hours was significantly prolonged in EPSA pts when compared to the control group (table 1). We didn’t find short or prolong QT interval in EPSA pts and control group.

Abstract THU0307 – Table 1. QTc interval in EPSA pts and control group

<table>
<thead>
<tr>
<th>Parameters</th>
<th>EPSA pts</th>
<th>Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTc (ms), day</td>
<td>397[376; 404]</td>
<td>387,5[370,5; 396]*</td>
</tr>
<tr>
<td>QTc (ms), night</td>
<td>396[377; 406]</td>
<td>390[367; 396,5]*</td>
</tr>
<tr>
<td>QTc (ms), 24 hour</td>
<td>395[376; 406]</td>
<td>387[370; 396]*</td>
</tr>
</tbody>
</table>

Data are present in median values and interquartile range, 1*p<0.05 (nonparametric paired Mann-Whitney U test).

62.5% of patients with EPSA were classified as being at low risk 10 year risk of CV death using the SCORE algorithm, 62.5% pts – intermediate risk, 29.2% pts – high risk, 2.8% pts – very high risk. Increased cIMT was found in 11 (22.9%), athrosclerotic plaques in 15 (31.3%). We found significant correlations between age and QTc duration during the 24 hours (R=0.48), as well as in both day (R=0.46) and night periods (R=0.45), for all p<0.05. We didn’t find correlations between QTc duration and traditional risk factors of CVD, disease activity of EPSA. Significantly correlations were observed between SCORE level and abdominal obesity (R=0.43, p<0.05), BMI (R=0.41, p<0.001), c-IMT (R=0.41, p<0.05).

Conclusions: QT interval was significantly prolonged in EPSA pts when compared to the control group. The age of pts was associated with increase of the QTc interval. 29.2% of patients were classified as being at high risk 10 year risk of CV death using the SCORE algorithm. The increase level of SCORE associated with a subclinical atherosclerosis. Combination of prolonged QT interval and carotid atherosclerosis confirms presence of high cardiovascular risk in EPSA pts.

Disclosure of Interest: None declared


THU0309

TEN YEARS FOLLOW-UP STUDY OF CLINICAL DISEASE STATUS AND TREATMENT IN PSORIATIC ARTHRITIS PATIENTS FROM AN OUTPATIENT CLINIC IN SOUTHERN NORWAY

1G. Hausenberg, S. Tengedsø,1 J.W. Hansen2, B. Michelsen,3 A. Diamantopoulos3,A. Kavannah4,1 Rheumatology, Martina Hansens Hospital, Bærum, 1Research Unit,1 Rheumatology, Hospital of Southern Norway Trust, Kristiansand, Norway, 3Center for Innovative Therapy, UCSD, San Diego, USA

Background: In the new millennium remission has become an obtainable treatment goal for chronic inflammatory joint disorders, shown in particular for rheumatoid arthritis (RA). This has been attributed to new treatment strategies (early intervention and treat-to-target) and new drugs e.g. biologic Disease Modifying Anti-Rheumatic Drugs (bDMARDs). For psoriatic arthritis (PsA) there is a lack of longitudinal long term clinical data illuminating potential changes that may have occurred over the years.

Objectives: To explore long term changes in clinical disease status and treatment in PsA patients monitored in an ordinary Norwegian outpatient clinic in the period 2008–2017.

Methods: For each year we collected data from last patient visit recorded in the hospital computer system GoTreatIT Rhea. Included patients had to fulfil the CASPARR criteria and have peripheral arthritis. Standard clinical data collection included demographic data, clinical measures of disease activity (Disease Activity Score with 28 joints [DAS28], Clinical Disease Activity Index [CDAI] and Assessors Global Assessments (AGA) on Visual Analogue Scale 0–100 mm (VAS) laboratory measures of measures of disease activity (Erythrocyte Sedimentation Rate (ESR), C-Reactive Protein (CRP) and Patient-Reported Outcomes Measures (PROMs), physical function (HAQ), morning stiffness and VAS scores for joint pain, fatigue and Patient Global Assessment (PGA). Treatment with prednisolone, synthetic DMARDs (sDMARDs) or bDMARDs, was recorded.

Results: Over the 10 years mean annual number of PsA patients monitored was 331, mean age 58.4 years, disease duration 9.6 years, BMI 27.6 kg/m², females 49%, and current smokers 17.6%. A statistically significant decrease for measures of disease activity for the period 2008–2017 was seen (all p<0.01): ESR 15.8–10.9 mm/hr, CRP 7.6–4.1 mg/dl, 28 swollen joints 1.5–0.6, 28 tender joints 3.3–1.6, DAS28 3.32–2.46, CDAI 10.1–6.8 and AGA 14.5–8.6. No statistically significant changes in PROMs were seen. Mean values for the period was: MHAQ 0.46, joint pain 36.3 mm, fatigue 44.2 mm, PGA 38.8 mm and morning stiffness 0.99 hour. From 2008 to 2017 the percentage of patients treated with bDMARDs and/or sDMARDs and/or prednisolone increased from 72.6% to 80.9%. For the
10 year period the annual proportion of patients did not significantly change neither for treatment with prednisolone (14.9%), synthetic DMARDs (53.0%), Methotrexate (38.5%) or biologics (29.9%), this both for TNF (28.1%) and non-TNF inhibitors (1.8%).

Conclusions: Despite obvious limitations using disease activity measures (28 joint count, DAS28 and CDAI) designed for use in RA, our study indicate that disease activity decreased in our PsA outpatients over the 10 year period. This despite no significant change in proportions of patients treated with sDMARDs and bDMARDs. For PROMs no significant changes was seen. With new available outcome measures designed for use in PsA and more treatment options available e.g. secukinumab (IL17 inhibition) and ustekinumab (IL12/23) and tofacitinib (JAK inhibitor) further improvements in clinical outcomes both for disease activity and patient perception can be expected.

REFERENCE:

Disclosure of Interest: G. Haugeberg Shareholder of: Diapharget AS, Grant/ research support from: Unrestricted Grant from Pfizer Norway, S. Tengesdal: None declared, I. J. Hansen: None declared, B. Michelsen: None declared, A. Diamantopoulos: None declared, A. Kavanaugh: None declared

DOI: 10.1136/annrheumdis-2018-eular.4792

THU0310

BIOLOGIC DISEASE-MODIFYING ANTIRHEUMATIC DRUGS IN PSORIATIC ARTHRITIS: A REAL-WORLD COHORT OF 439 PATIENTS


1Rheumatology, Lille University Hospital, 2Lille University, Lille; 3Rheumatology, Maison Blanche Hospital, Reims University Hospitals, Reims; 4Rheumatology, Hospital of Bethune, Bethune; 5Rheumatology, Amiens University Hospital, Amiens; 6Internal medicine. Hospital of Roubaix, Roubaix; 7Rheumatology, Hospital of Saint Philibert, Lomme; 8Rheumatology, Private Practice, Beauvry; 9Rheumatology, Institut Calot, Berck; 10Rheumatology, Hospital of Valenciennes; 11Rheumatology, Private Practice, Valenciennes; 12Rheumatology, Poitiers University Hospital, Poitiers; 13Clinical Research and Methodology, Lille University Hospital, Lille, France

Background: For more than 15 years, severe psoriatic arthritis (PsA) has been treated only by TNF inhibitors. Two new Biologic Disease-modifying Antirheumatic Drugs (bDMARDs) have recently arrived on the market with different targets: IL12–23 for ustekinumab and IL 17 for secukinumab. Few studies exist with a large number of patients and with required hindsight.

Objectives: The objective was to assess drug survival in an observational cohort of 630 PsA depending on the line of treatment and to analyse the reasons of discontinuation.

Methods: This is a retrospective, multicentric observational study based on the data of the registry RIC Nord de France, from patients suffering from PsA (CASPAR criteria) and treated by bDMARDs from January 2000 to august 2017. Drug survival is defined as the time from initiation to discontinuation (stop/switch) of biologic therapy on the registry. The number of patients who discontinued each treatment and the duration of therapy were recorded. Using Kaplan-Meier survival curves and Cox-regression analyses [hazard ratios (HR) and 95% confidence intervals (CIs)], time to discontinuation was compared across cohorts undergoing first-, second- or third-line treatment.

Abstract THU0310 – Figure 1. Drug survival of biotherapies at first-line treatment

Results: Out of 630 PsA, 439 were included with a mean follow up greater than or equal to 6 months. The sex ratio was balanced with 47% of women. The mean age was 54.5 years old and the body mass index (BMI) was 28.7 kg/m². The disease duration was 14.25 years. 51.6% of patients did not smoke. The DAS-28 CRP was 3.99 at the initiation of the biotherapy. The drug survival of the TNF inhibitors was similar at first-line treatment (n=439 patients) (figure 1) and at second-line treatment (n=238 patients). The drug survival of infliximab was statistically longer at third-line treatment (n=209) (p<0.0001), as the drug survival of TNF inhibitors compared to non TNF inhibitor biotherapies (ustekinumab and secukinumab) (p<0.01). There was no impact of the age, the sex or the BMI on the drug survival. The discontinuation was mainly due to primary and secondary failure at first-line (respectively 33.33% and 33.71%) and to adverse events at second- and third-line (respectively 30.22% and 44.55%).

Conclusions: The results of the large observational study confirm those of the clinical trials, especially for the patients with failing initial TNF inhibitor therapy.

Disclosure of Interest: None declared

THU0311

IMPACT OF SECUKINUMAB TREATMENT ON PSORIATIC ARTHRITIS PATIENTS WITH OR WITHOUT ENTHESITIS AT BASELINE: POOLED DATA FROM TWO PHASE 3 STUDIES (FUTURE 2 AND FUTURE 3)

1U.K. Wallman, G. Schern2, I.B. Mолнnes3, E. Quebe-Fehling5, L. Rasouliyan5, L. Pricko6, A.E. Faith7, C. Gailliez4, on behalf of the FUTURE 2 and FUTURE 3 study groups.

2Lund University, Lund, Sweden; 3University of Nuremberg, Erlangen, Germany; 4University of Glasgow, Glasgow, UK; 5Novartis Pharma AG, Basel, Switzerland; 6RTI Health Solutions, Barcelona, Spain; 7Novartis Pharmaceuticals Corporation, East Hanover, USA; 8Novartis Sverige AB, Täby, Sweden

Background: Enthesitis is a common phenotypic manifestation of psoriatic arthropitis (PsA) affecting approximately 70% of patients (pts) and may be associated with worse outcomes. Secukinumab (SEC), a fully human monoclonal antibody that selectively neutralises IL-17A, provided significant and sustained improvement in clinical outcomes both for disease activity and outcome measures designed for use in PsA and more treatment options available that selectively neutralises IL-17A, provided significant and sustained improvement in the signs and symptoms of active PsA, with sustained resolution of enthesitis in Phase 3 studies.1,2,3

Objectives: To report the impact of SEC treatment on efficacy outcome measures in active PsA pts with or without baseline (BL) enthesitis (defined by Leeds Enthesitis Index) using pooled data from the FUTURE 2 (NCT01752634) and FUTURE 3 (NCT01989468) studies over 2 years.

Methods: SEC and placebo (PBO) were administered weekly during the first 4 weeks (wks) followed by subcutaneous maintenance dosing every 4 wks thereafter (PBO until Wk 16/24). The results are reported only for SEC 300 and 150 mg (approved doses). Efficacy outcomes (ACR20/50/70, PASI 90, HAQ-DI, SF-36 PCS and DAS28-CRP) were analysed post-hoc in pts with enthesis at BL (BLE; n=466) or without enthesis at BL (No BLE; n=246). Observed data are presented for binary variables and least-square (LS) means from analysis of covariance for continuous variables.

Results: A total of 65% of pts had BLE. BL demographics were balanced between the BLE and No BLE groups except for a higher proportion of females and numerically higher tender joint count, disability (HAQ-DI) and lower physical function (SF-36 PCS) in BLE pts than No BLE pts. At Wk 16, improvements in ACR and PASI responses, HAQ-DI, SF-36 PCS and DAS28-CRP were similar in both groups treated with SEC 300 mg, but were lower (except for PASI) in BLE pts treated with SEC 150 mg (table 1). Improvements in these outcomes followed a similar trend to Wk 104 in SEC-treated pts (table 1).

Abstract THU0311 – Table 1. Summary of Results with Secukinumab

<table>
<thead>
<tr>
<th>Wk</th>
<th>BLE</th>
<th>No BLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 mg</td>
<td>353</td>
<td>44.6</td>
</tr>
<tr>
<td>150 mg</td>
<td>53.7</td>
<td>64.6</td>
</tr>
<tr>
<td>PBO</td>
<td>19.6</td>
<td>18.1</td>
</tr>
<tr>
<td>ACR20 b</td>
<td>104</td>
<td>56.8</td>
</tr>
<tr>
<td>ACR50 b</td>
<td>104</td>
<td>31.3</td>
</tr>
<tr>
<td>ACR70 b</td>
<td>104</td>
<td>44.7</td>
</tr>
<tr>
<td>PASI</td>
<td>104</td>
<td>50.0</td>
</tr>
<tr>
<td>SF-36</td>
<td>104</td>
<td>67.9</td>
</tr>
<tr>
<td>HAQ-DI</td>
<td>104</td>
<td>0.5</td>
</tr>
<tr>
<td>PCS</td>
<td>104</td>
<td>7.4</td>
</tr>
<tr>
<td>DAS28- CRP</td>
<td>104</td>
<td>1.6</td>
</tr>
</tbody>
</table>

*Response,%; 1At Wk 16/104, n=144/132 (SEC 300), 159/145 (SEC 150) and 163 (PBO) with enthesitis and n=95/91 (SEC 300), 79/70 (SEC 150) and 72 (PBO) without enthesitis at BL; 2At Wk 16/104, n=66/56 (SEC 300), 82/62 (SEC 150) and 63 (PBO) with enthesitis and n=38/34 (SEC 300), 46/36 (SEC 150) and 30 (PBO) without enthesitis at BL (psoriasis subset); 3LS mean

Scientific Abstracts

Thursday, 14 June 2018 373