1034 Saturday, 17 June 2017 Scientific Abstracts

inhibitors (SC-TNFis) have transformed the management of inflammatory joint diseases such as rheumatoid arthritis (RA). The assessment of SC- TNFis persistence and its determinants is needed.

Objectives: The objective of this study was to describe treatment persistence in real-world settings, and identify the determinants of persistence among RA patients initiating treatment with an SC-TNFi.

Methods: The French national health insurance scheme database lists all outpatient and inpatient healthcare consumption for individuals covered by the general health insurance scheme. Using French claims data, RA was diagnosed using Long Term Disease status and hospital admission, based on ICD-10 codes. Patients were then identified through prescription filled for adalimumab (ADA), etanercept (ETA), certolizumab pegol (CZP) and golimumab (GLM) between 2012/07/01 and 2013/12/31. A patient was considered as non-persistent in the event of a prolonged interruption of the therapy lasting 91 days or more. Persistence was estimated with Kaplan Meier analysis. Determinants of persistence in the 12 months before initiation were identified using Cox models.

Results: A total of 7,204 patients with RA were identified. In the descriptive analyses of the 12 months persistence, differences were observed for RA patients, with raw/non-adjusted persistence rates of 51.8% for CZP, 57.4% for ETA, 53.7% for ADA and 56.6% for GLM. Results of the Cox model are presented below, including hazard ratio for biotherapy, adjusted on sex, age, socio-economic status, and criteria on disease severity. The variables biotherapy, sex and socio-economic status did not meet the proportionality hypothesis of risks, and were corrected by the addition of a variable integrating the interaction with time.

Table 1: Determinants of 12-month non-persistence (Cox model)

	Hazard Ratio	IC 9	95%	P-value
SC-TNFis				
GLM	1.000	_	_	_
CZP	1.642	1.343	2.006	< 0.0001
ETA	1.512	1.297	1.763	< 0.0001
ADA	1.418	1.258	1.599	< 0.0001
Sex				
Male	1.000	_	_	_
Female	1.610	1.367	1.897	< 0.0001
Age	1.000	0.998	1.003	0.6833
Deprived socio-economic status : Yes vs No	0.901	0.712	1.141	0.3882
Number of comorbid conditions (per additional condition)	1.122	1.086	1.160	< 0.0001
Biotherapy line (per additional line)	1.364	1.296	1.435	< 0.0001
DMARD dispensation: Yes vs No	0.952	0.884	1.025	0.1924
Sulfasalazine dispensation : Yes vs No	1.101	0.964	1.258	0.1545
Long term oral steroids : Yes vs No	1.026	0.958	1.099	0.4629
Hospital admission for IRMD	0.932	0.871	0.997	0.0419
Visits to rheumatologist				
0	1.000	_	_	_
1–4	0.681	0.578	0.803	< 0.0001
>4	0.704	0.599	0.828	< 0.0001
Interaction with time				
Interaction biotherapy * time	1.001	1.000	1.001	0.0025
Interaction sex * time	0.999	0.998	0.999	0.0023
Interaction socio-economic status * time	1.002	1.000	1.003	0.0084

Conclusions: Non-persistent patients were more likely female, with multiple comorbid conditions, and multiple line of biotherapy. Hospital admission for IRMD, visits to rheumatologist and treatment with GLM (compared to CZP, ETA and ADA) decreased the risk of non-persistence. Further analyses are needed to better understand behaviours of patients and to assess the impact of non-persistence on clinical and economics outcomes.

Disclosure of Interest: B. Fautrel Grant/research support from: AbbVie, MSD, Pfizer, Consultant for: AbbVie, Biogen, BMS, Celgène, Hospira, Janssen, Lilly, MSD, NORDIC Pharma, Pfizer, Roche, SOBI, UCB, M. Belhassen Employee of: PELyon, C. Hudry Consultant for: ABBVIE, MSD, BMS, PFIZER, ROCHE, CELGENE, NOVARTIS, BIOGEN, UCB, SANDOZ, AMGEN., Employee of: COCHIN Hospital, M.-C. Woronoff: None declared, N. Gouyette Employee of: MSD France, A. Clément Employee of: MSD France, E. Van Ganse Consultant for: PELyon; ALK ABELLO; AstraZeneca; Bayer; BMS; BIF; GSK; IMS; LASER; MSD, F. Tubach: None declared

DOI: 10.1136/annrheumdis-2017-eular.5023

SAT0685 DETERMINANTS OF 12-MONTHS PERSISTENCE IN **PSORIATIC ARTHRITIS PATIENTS INITIATING** SUBCUTANEOUS TNF-ALPHA INHIBITORS

B. Fautrel 1, M. Belhassen 2, C. Hudry 3, M.-C. Woronoff 4, N. Gouyette 5 A. Clément⁵, E. Van Ganse⁶, F. Tubach⁷. ¹Sorbonne Universités, UPMC Univ Paris 06; AP-HP, Rheumatology Department, Pitié Salpétrière University Hospital, Paris, France., Paris; ²Hesper 7425, Health Services and Performance Research, University Claude Bernard Lyon 1; PELyon, Pharmacoepidemiologie Lyon, Lyon; ³AP-HP Hôpital Cochin, Paris; ⁴CHU Besançon, Université Franche-Comté, Comue Ubfc, UMR INSERM 1098, Besançon; 5 Merck Sharp & Dohme, Paris; 6 Hesper 7425, Health Services and Performance Research, University Claude Bernard Lyon 1, PELyon, Pharmacoepidemiologie Lyon, Lyon; ⁷APHP, Hôpital Pitié-Salpêtrière, Département de Biostatistiques, Santé publique et Information médicale, APHP, Centre de Pharmacoépidémiologie (Cephepi);

INSERM, UMR 1123 ECEVE; Université Pierre et Marie Curie Paris 6, Sorbonne Universités, Paris, France

Background: Biotherapies such as subcutaneous tumour necrosis factor-alpha inhibitors (SC-TNFis) have transformed the management of inflammatory joint diseases such as psoriatic arthritis (PsA). The assessment of SC- TNFis persistence and its determinants is needed.

Objectives: The objective of this study was to describe treatment persistence in real-world settings, and identify the determinants of persistence among PsA patients initiating treatment with an SC-TNFi.

Methods: The French national health insurance scheme database lists all outpatient and inpatient healthcare consumption for individuals covered by the general health insurance scheme. Using French claims data, PsA was diagnosed using Long Term Disease status and hospital admission, based on ICD-10 codes. Patients were then identified through prescription filled for adalimumab (ADA), etanercept (ETA), certolizumab pegol (CZP) and golimumab (GLM) between 2012/07/01 and 2013/12/31. A patient was considered as non-persistent in the event of a prolonged interruption of the therapy lasting 91 days or more. Persistence was estimated with Kaplan Meier analysis. Determinants of persistence in the 12 months before initiation were identified using Cox models. Results: A total of 2.011 patients with PsA were identified. In the descriptive analyses of the 12 months persistence, differences were observed for PsA patients, with raw/non-adjusted persistence rates of 37.3% for CZP, 51.8% for ETA, 54.7% for ADA and 50.8% for GLM. Results of the Cox model are presented, including hazard ratio for biotherapy, adjusted on sex, age, socio-economic status, and criteria on disease severity. The variables biotherapy, biotherapy line, comorbid conditions and hospital admission for IRMD did not meet the proportionality hypothesis of risks, and were corrected by the addition of a variable integrating the interaction with time.

Table 1. Determinants of 12-month non-persistence (Cox model)

	Hazard Ratio	IC 9	IC 95%	
SC-TNFis				
GLM	1.000	_	_	_
CZP	2.315	1.438	3.726	0.0005
ETA	1.631	1.199	2.217	0.0018
ADA	1.167	0.944	1.443	0.1525
Sex				
Male	1.000	_	_	-
Female	1.480	1.301	1.684	< 0.0001
Age	0.996	0.991	1.001	0.1544
Deprived socio-economic status : Yes vs No	1.486	1.197	1.843	0.0003
Number of comorbid conditions (per additional condition)	0.993	0.885	1.115	0.9114
Biotherapy line (per additional line)	1.422	1.188	1.702	0.0001
DMARD dispensation: Yes vs No	0.965	0.854	1.090	0.5649
Sulfasalazine dispensation : Yes vs No	1.127	0.907	1.401	0.2789
Long-term oral steroids : Yes vs No	1.101	0.918	1.320	0.2980
Hospital admission for IRMD	0.784	0.611	1.007	0.0565
Visits to rheumatologist				
0	1.000	_	_	-
1–4	0.808	0.598	1.093	0.1673
>4	0.779	0.577	1.052	0.1035
Interaction with time				
Interaction biotherapy * time	1.001	1.001	1.002	0.0013
Interaction comorbid conditions * time	1.001	1.000	1.001	0.0138
Interaction biotherapy line * time	0.998	0.997	0.999	0.0006
Interaction hospital admission for IRMD * time	1.002	1.000	1.003	0.0303

Conclusions: Non-persistent patients were more likely female, with deprived socio-economic status, and multiple line of biotherapy. Treatment with GLM (compared to CZP and ETA) decreased the risk of non-persistence. Further analyses are needed to assess the impact of non-persistence on clinical and economics outcomes.

Disclosure of Interest: B. Fautrel Grant/research support from: AbbVie, MSD, Pfizer, Consultant for: AbbVie, Biogen, BMS, Celgène, Hospira, Janssen, Lilly, MSD. NORDIC Pharma, Pfizer, Roche, SOBI, UCB, M. Belhassen; None declared. C. Hudry Consultant for: ABBVIE, MSD, BMS, PFIZER, ROCHE, CELGENE, NOVARTIS, BIOGEN, UCB, SANDOZ, AMGEN., Employee of: COCHIN Hospital, M.-C. Woronoff: None declared, N. Gouyette Employee of: MSD France, A. Clément Employee of: MSD France, E. Van Ganse Consultant for: PELyon; ALK ABELLO; AstraZeneca; Bayer; BMS; BIF; GSK; IMS; LASER; MSD, F. Tubach: None declared

DOI: 10 1136/annrheumdis-2017-eular 5081

SAT0686 | MAJOR ADVERSE CARDIOVASCULAR EVENTS: RISK FACTORS IN PATIENTS WITH RA TREATED WITH TOFACITINIB

C. Charles-Schoeman ¹, H. Valdez ², K. Soma ³, L. Hwang ², R. DeMasi ⁴, M. Boy ³, I.B. McInnes ⁵. ¹University of California, Los Angeles, CA; ²Pfizer Inc, New York, NY; ³Pfizer Inc, Groton, CT; ⁴Pfizer Inc, Collegeville, PA, United States; ⁵ Glasgow Biomedical Research Centre, University of Glasgow, Glasgow, United Kingdom

Background: Patients (pts) with RA have increased risk of myocardial infarction (MI) and stroke that cannot be completely explained by traditional cardiovascular

1035 Scientific Abstracts Saturday, 17 June 2017

(CV) risk factors. Tofacitinib is an oral JAK inhibitor for the treatment of RA. Treatment with tofacitinib may increase total cholesterol (TC), low-density lipoprotein-cholesterol (LDL-c) and high-density lipoprotein-cholesterol (HDL-c), without affecting TC/HDL-c ratio.

Objectives: To evaluate major adverse CV event (MACE) risk factors in tofacitinibtreated pts with RA in the clinical development programme.

Methods: Data were pooled from pts with moderately to severely active RA receiving ≥1 tofacitinib dose in 6 Phase 3 and 2 long-term extension (LTE) studies (1 LTE study ongoing, data cut-off: April 2015). MACE was any MI, stroke or CV death (coronary, cerebrovascular, cardiac). Cox regression models evaluated associations between baseline (BL) values and time (BL to first tofacitinib dose) to first MACE. Changes (BL to Week [wk] 24) in MACE predictors and time to future MACE (first occurrence after 24 wks) were evaluated after adjusting for age, BL values and time-varying tofacitinib dose. Hazard ratios (HR) and 95% confidence intervals (CI) were calculated.

Results: 52 MACE cases occurred over 12,873 pt-years (py) of exposure in 4076 pts (incidence rate: 0.4 pts with events/100 py). At BL, compared with pts without MACE, pts with MACE were older (mean age 60.2 vs 52.7 years) with a higher mean BMI (29.2 vs 27.0 kg/m²) and longer mean RA disease duration (10.1 vs 7.7 years), and were more likely to have a history of diabetes (15.4% vs 7.6%) and hypertension (57.7% vs 33.7%). Pts with MACE had higher mean TC (208.2 vs 198.3 mg/dL), LDL-c (123.3 vs 114.0 mg/dL), TC/HDL-c ratio (4.0 vs 3.5) and triglycerides (152.1 vs 125.3 mg/dL) at BL, and lower HDL-c (55.3 vs 59.4 mg/dL) vs pts without MACE. In univariate analyses, traditional CV risk factors and corticosteroid and statin use at BL were associated with MACE risk (Table). BL disease activity and inflammation measures were not associated with MACE risk (Table). In multivariate analysis, BL age, hypertension and the TC/HDL-c ratio were significantly associated with MACE risk. Increases in HDL-c (p<0.001) and decreases in TC/HDL-c ratio (p<0.05) after 24 wks of tofacitinib therapy were significantly associated with decreased risk of future MACE (Figure). Increases in erythrocyte sedimentation rate (ESR; p=0.09) may be associated with increased future MACE risk. Changes in TC, LDL-c or other disease activity measures were not associated with future MACE risk.

Conclusions: In pooled analyses of tofacitinib-treated pts (age and BL value adjusted), increases in LDL-c and TC after 24 wks of tofacitinib therapy were not associated with future MACE risk. Increases in HDL-c and decreases in the TC/HDL-c ratio after 24 wks of tofacitinib therapy were associated with reduced future MACE risk. Increases in ESR after 24 wks may be associated with increased future MACE risk. More data are needed to confirm these findings

Acknowledgements: Previously presented at ACR 2016 and reproduced with

iation of baseline risk factors and development of MACE based on univariate Cox analysis

Baseline variable	HR	(95% CI)
Age (years, n=52)	2.02***	(1.53, 2.67)
BMI (kg/m², n=52)	1.05**	(1.01, 1.09)
Baseline statin users (Y/N, n=52)	2.77**	(1.45, 5.28)
Baseline corticosteroid users (Y/N, n=52)	0.55*	(0.31, 0.98)
Duration of RA, (years, n=52)	1,03*	(1.00, 1.06)
friglycerides (mg/dL, n=51)	1.00**	(1.00, 1.01)
ΓC/HDL-c ratio (n=51)	1.42***	(1.16, 1.74)
Apolipoprotein B (mg/dL, n=48)	1.02**	(1.01, 1.03)
Apolipoprotein B/Apolipoprotein A-1 ratio (n=48)	2.76**	(1.50, 5.09)
BBP (mmHg, n=51)	1.02*	(1.01, 1.04)
DBP (mmHg, n=61)	1.04*	(1.01, 1.07)
listory of diabetes (Y/N, n=52)	2.56*	
listory of hypertension (Y/N, n=52)	2.86***	(1.20, 5.43)

p-0.05; "p-0.01; ""p-0.001

Other IRL variables assessed as not being statistically significant were gender, weight, emoking status, DAS29-4(ESR), ESR, CRP, ewolies joint count out of 22, benefities MTX does, TC, HDL-c, LDL-c and hatory of cardac disorders

Experimentally the control of 22, baseline MTX does, TC, HDL-c, LDL-c and hatory of cardac disorders

BL, baseline, SMI, body mass index, CL, confidence interest; CRP, Creactive protein; DAS29-4, disease activity score in 28 joints, DRP, disablo baseline, SMI, body mass index, CL, confidence interest; CRP, Creactive protein; DAS29-4, disease activity score in 28 joints, DRP, disablo baseline, SMI, body mass index, CL, confidence interest, CRP, disablo baseline, SMI, baseline, SMI, body mass index, CL, confidence interest, CRP, disablo baseline, SMI, ba

re. Age-adjusted and baseline parameter-adjusted association of change from baseline to Week 24 in lipid levels, mmation parameters and RA disease activity measures with future MACE

	HR	95% CI	Р		1				
HDL-c, mg/dL (Unit=1, n=36)	0.952	(0.925, 0.979)	0.0007	+	-				
Triglycerides, mg/dL (Unit=1, n=36)	1.002	(0.999, 1.006)	0.1975		1				
LDL-c, mg/dL (Unit=1, n=35)	0.993	(0.982, 1.005)	0.2628		4				
TC, mg/dL (Unit=1, n=37)	0.994	(0.984, 1.003)	0.1818		+				
ESR, mm/H (Unit=0.5, n=33)	1.007	(0.999, 1.016	0.0936						
Swollen joint counts out of 28 (Unit=1, n=37)	0.990	(0.907, 1.082)	0.8314	_	+				
Tender joint counts out of 28 (Unit=1, n=37)	1.007	(0.953, 1.065)	0.7955	-	+				
DAS28-4(ESR) (Unit=0.5, n=38)	1.055	(0.926, 1.202)	0.4189	_	-				
PtGA (0-100 mm VAS) (Unit=1, n=37)	0.991	(0.975, 1.007)	0.2449		+				
SBP, mmHg (Unit=1, n=42)	1.005	(0.981, 1.029)	0.6970		+				
DBP, mmHg (Unit=1, n=42)	0.987	(0.950, 1.026)	0.5188	-	+				
Weight, kg (Unit=1, r=42)	0.979	(0.899, 1.067)	0.6332	_	+				
BMI, kg/m² (Unit=1, n=42)	0.954	(0.780, 1.167)	0.6471	\rightarrow	-				
TC/HDL-c ratio (Unit=1, n=36)	1.406	(1.006, 1.961)	0.0450		_		-		_
				0.75 1	.00	1.25	1.50	1.75	2.0
				н	R* and 95%	CI of fut	ture adjudio	ated MACE	

permission. This study was sponsored by Pfizer Inc. Editorial support was provided by C Viegelmann of CMC and was funded by Pfizer Inc.

Disclosure of Interest: C. Charles-Schoeman Grant/research support from: AbbVie, Bristol-Myers Squibb, Pfizer Inc, Consultant for: Amgen, Pfizer Inc, Regeneron-Sanofi, H. Valdez Shareholder of: Pfizer Inc. Employee of: Pfizer Inc, K. Soma Shareholder of: Pfizer Inc, Employee of: Pfizer Inc, L. Hwang Shareholder of: Pfizer Inc, Employee of: Pfizer Inc, R. DeMasi Shareholder of: Pfizer Inc, Employee of: Pfizer Inc, M. Boy Shareholder of: Pfizer Inc, Employee of: Pfizer Inc, I. McInnes Grant/research support from: AbbVie, Bristol-Myers Squibb, Celgene, Janssen, Merck, Novartis, Pfizer Inc, Roche

DOI: 10.1136/annrheumdis-2017-eular.2434

SAT0687

ADHERENCE OF RHEUMATIC PATIENTS TO INH PROPHYLAXIS PRESCRIBED BEFORE BIOLOGICAL TREATMENT: HUR-BIO SINGLE CENTER REAL LIFE RESULTS

E. Şeyhoğlu¹, O.A. Uyaroğlu¹, A. Erden², L. Kılıç², B. Armağan², A. Sarı² M. Baykal², S. Ak², Ö. Karadağ², A. Akdoğan², S. Apraş Bilgen², S. Kiraz², I. Ertenli², U. Kalyoncu². ¹Department of Internal Medicine; ²Division of Rheumatology, Department of Internal Medicine, Hacettepe University School of Medicine, Ankara, Turkey

Background: Isoniazid (INH) prophylaxis is strongly recommended for the patients who have latent tuberculosis (TB) and who are going to be under anti-TNF treatment. INH is prescribed for 9 months and patient adherence to INH affects the risk of active TB development.

Objectives: In this study we aimed to assess the levels of patient adherence to INH prophylaxis.

Methods: Patients, who are under biological treatment and who have a quantiferon (QFT) test result, were evaluated with a questionnaire between August 2015-August 2016. Questionnaire included the demographic and clinical characteristics. Besides, patients were asked whether they had been prescribed INH. Patients, who were given INH prophylaxis, were asked to answer those questions: i) Did you take INH daily and regularly for 9 months? ii) If not what was the reason? The reasons are classified into three categories: 1) The patient discontinued INH of his/her own volition before 9 months. 2) Continued INH for 9 months but did not take regularly due to forgetfulness. 3) Treatment stopped by physicisan due to an adverse effect (elevation of liver enzymes, neuropathy, etc.)

Results: 1. 710 patients were recruited. INH was prescribed to 169 (23.8%) of 710. Demographic characteristics of INH-prescribed patients: 88 (52.1%) of 169 were female, mean age was 46.2 (SD:11.4), 82 (48.5%) of 169 at least graduated from a high school. Diagnosis were followed: RA 65 (38.4%). SpA 85 (50.3%). PsA 13 (7.7%), others 6 (3.6%). Totally 34 (20.1%) of 169 took INH irregularly. 19 (11.2%) of 169 patients discontinued INH of his/her own volition before 9 months. During follow-up 5 of 19 were prescribed INH again by the physician and they completed the 9-months duration. 9 (5.3%) of 169 patients did not take INH regularly due to forgetting. INH was stopped by a physician due to liver enzyme elevation in 6 (3.5%) of 169 patients. There was not a statistically difference in demographical and clinical characteristics between regular and irregular INH takers.

Conclusions: There is an inadherence to INH treatment approximately in one of five patients. Only 3.5% of INH-recommended patients had a medical reason of inadherence. Among other patients, causes of inadherence were discontinuance of own volition and forgetfulness or perfunctoriness. Physicians should be aware that reminding of INH is one of the question in every outpatient clinic visits. Other reminding methods such as regular calling should be considered in those of high risk population. Further studies were needed for reminding process.

Disclosure of Interest: None declared DOI: 10.1136/annrheumdis-2017-eular.4093

SAT0688

JOINT INVOLVEMENT IN PATIENTS WITH KNEE AND HIP OA SCHEDULED FOR SURGERY: MULTI-JOINT OA, THE RULE NOT THE EXCEPTION?

<u>E.M. Badley</u> ¹, C. Yip ¹, J.D. Power ², R. Gandhi ², N. Mahomed ², J.R. Davey ², K. Syed ², Y.R. Rampersaud ², C. Veillette ², A.V. Perruccio ^{1,2}. ¹Division of Health Care and Outcomes Research, Krembil Research Institute; ²The Arthritis Program, Toronto Western Hospital, Toronto, Canada

Background: Multijoint involvement in osteoarthritis (OA) has long been documented clinically and in the literature. Even so, the vast majority of OA research has focused on OA in individual joints, particularly the knees, hips or hands. In many "joint-specific" studies, the presence of multijoint symptoms are either ignored or peripherally considered in descriptive and analytical work. The implicit assumption is often that OA is OA, irrespective of whether a single joint or several joints are involved.

Objectives: To document the occurrence of multijoint symptoms in a clinical sample of individuals with knee and hip OA scheduled for orthopaedic surgery. To examine the joint sites involved and investigate whether the extent of joint involvement is related to demographic and health characteristics.

Methods: Patients scheduled for total knee or hip replacement for endstage OA were consecutively recruited from an academic hospital in Toronto, Canada. A health questionnaire completed prior to surgery captured demographic

as predictore
model, only patients with exposure after the tofaciliniti-week, 24 were considered (e., patients who had MACE before tofacilinitiman or completed the study by tofaciliniti-week 24 were exculaded, Additionally, patients with missing data for a tofaciliniti-week
ded from the analysis of that virsible for imputation method). The I/R corresponds to increased ink of MACE per I-unit increase
or number of patients with future MACE for each predictor
color mass index (I.O. confidence interval; DAS294, disease activity score in 28 joints; DBP, disatolo blood pressure;
erythrocyte sedimentation rats; I/O.L.o., high-density [september-cholsetrol; I/R, hazard ratsc); I/D.-o, low-density [september-cholsetrol]; I/D.-o, low-density