actives, 1 257 posts during the second sessions, tutored by peer patients with a dedicated training.

Some participants were health care professionals and their extremely positive feedbacks prove the value in offering MOOC access to every people interested in.

Conclusions: This is the first digital training strategy for people with rheumatoid arthritis. It proved to be useful to patients, offering an alternative or complement to TPE.

It will be necessary to evaluate the impact of this MOOC on the quality of life of the patients and their perception on its usefulness after several sessions. We decided to propose an e-learning version without peer patient intervention and accessible at any time in addition to the MOOC version with a specific educational path.

Acknowledgements: This project received an institutional grant from Abbvie, Biogen, Lilly, Nordic, Pfizer, Roche-Chugai, Sandoz, Sanofi. All medical and patient experts volunteers.

Disclosure of Interest: None declared

DOI: 10.1136/annrheumdis-2018-eular.6295

WEDNESDAY, 13 JUNE 2018

EULAR projects in paediatric rheumatology and UCAN

OP0013

PREGNANCY OUTCOMES IN DMARD EXPOSED PATIENTS WITH JUVENILE IDIOPATHIC ARTHRITIS – RESULTS OF THE BIOLOGIC REGISTER JUMBO

P. Drechsel¹, J. Klotsche¹, M. Niewerth¹, G. Horneff², K. Minden¹. ¹Epidemiology, German Rheumatism Research Centre Berlin, Berlin; ²Asklepios Clinic Sankt Augustin GmbH, Sankt Augustin, Germany

Background: Juvenile idiopathic arthritis (JIA) often persists into adult life. Young women and men with JIA are often still exposed to disease modifying anti-rheumatic drugs (DMARDs). Little is known about the impact of DMARDs on pregnancy and its outcome, and there has been no approved DMARD for pregnant or lactating women so far.

Objectives: To investigate the course and outcome of pregnancies in female JIA patients and male JIA patients with pregnant partners who were exposed to DMARDs.

Methods: In the JIA biologic registry JuMBO (Juvenile arthritis MTX/Biologics long-term Observation), patients (or partners of patients) with pregnancies were identified. Standardised patient interviews were conducted and the course and outcome of pregnancy inquired. In addition, prospectively collected physician-reported data were considered in the analysis.

Results: Out of the 1300 patients enrolled in JuMBO, a total of 222 pregnancies in 116 women and in 25 partners of men with JIA were reported. Until January 2018, information was available for 149 pregnancies of 96 women with JIA and for 34 pregnancies of 20 male patients with pregnant partners.

The majority of the 96 women had polyarticular JIA (75%). The median age at first conception was 24 years (ys, IQR 20–27) and the median disease duration was 14 ys (IQR 9–18). All women were ever exposed to DMARDs, 84% to a biological (b) DMARD. Among the 149 pregnancies, 64 occurred upon DMARD exposure (29 bDMARDs, 23 bDMARDs plus synthetic (s)DMARDs, 12 sDMARDs). DMARDs were discontinued in most exposed patients 6 weeks (median, IQR 4–9) after conception. In the groups of pregnancy exposed (n=64) and unexposed (n=85) to a DMARD at conception were the outcomes as follows: 36 and 64 live births, 16 and 6 elective pregnancy terminations, 8 and 12 spontaneous abortions, 2 and 0 extra-uterine gravidity, and 0 and 1 stillbirth, respectively. Among the 100 pregnancies with live births, most frequent complications were gestational diabetes in 9 cases and bleeding in 7 cases. Three women suffered from preeclampsia. Twelve children were born before the 37th week of gestation (5 (13.9%) of exposed and 7 (10.9%) of unexposed mothers) and 38 were born by Caesarean section. Six children were born with malformations, of which four are to be considered as major anomalies according to the EUROCAT classification¹ (2 (5.5%) in exposed patients and 2 (3.1%) in unexposed patients).

Of the 34 pregnancies in partners of male patients, in 26 cases the expectant fathers had been exposed to DMARDs at conception. Most pregnancies (29/34, 85.2%) resulted in a live birth, 3 (8.8%) ended in a spontaneous abortion and 1 (2.9%) pregnancy was terminated. Two (6.9%) children were born with congenital malformation

Conclusions: Women and men with JIA who are still undergoing treatment in young adulthood often become pregnant or procreate children under medication, why more information on drug safety in pregnancy is needed. For this, more patient data must be evaluated in connexion with therapy, disease activity and the JIA category.

REFERENCE:

- [1] European Surveillance of Congenital Anomalies, EUROCAT Guide 1.3, chapter 3.3: Coding of EUROCAT subgroups of congenital anomalies. Available from www.eurocat-network.eu (Accessed 30 January 2018).

Acknowledgements: JuMBO register: Joint unconditional grant from Pfizer, Abbvie and Roche.

Disclosure of Interest: P. Drechsel: None declared, J. Klotsche: None declared, M. Niewerth: None declared, G. Horneff Grant/research support from: Abbvie, MSD, Pfizer, Chugai, Roche, K. Minden Grant/research support from: Abbvie, Pfizer, Chugai, Roche

DOI: 10.1136/annrheumdis-2018-eular.6941

WEDNESDAY, 13 JUNE 2018

Opening plenary abstract session

OP0014

SERUM URATE, GOUT, AND CARDIOVASCULAR DISEASE IN A RANDOMISED CONTROLLED TRIAL OF CANAKINUMAB: A CANTOS SECONDARY ANALYSIS

D. Solomon¹, R.J. Glynn¹, J.G. MacFadyen¹, P. Libby¹, T. Thuren², B.M. Everett¹, P.M. Ridker¹. ¹Harvard Medical School, Boston, USA; ²Novartis, Basel, Switzerland

Background: Serum urate is a risk marker for both gout and cardiovascular disease, but trial data demonstrating that drugs which reduce gout also reduce cardiovascular event rates is scarce. It is also uncertain if any such effects are mediated through urate levels.

Objectives: We examined the relationships between serum urate (SUA), canakinumab, and incidence rates for gout and cardiovascular events in the Canakinumab Anti-inflammatory Thrombosis Outcomes Study (CANTOS), a randomised double-blind placebo controlled trial of IL-1 β inhibition.

Methods: 10 061 patients with stable atherosclerosis (prior myocardial infarction) and hsCRP ≥ 2 mg/L were randomly allocated to placebo or to one of three doses of canakinumab (50 mg, 150 mg, or 300 mg), administered subcutaneously once every three months. Serum urate and hsCRP were tested at baseline and every 3 months for the first year and then annually. A physician diagnosed history of gout was ascertained at baseline and subsequent attacks were assessed during follow-up as part of the systematic adverse event reporting. The rates of gout and major adverse cardiovascular events (myocardial infarction, stroke, re-vascularisation, and cardiovascular death) were compared across different baseline SUA levels and by randomised treatment assignment.

Results: The groups were well balanced with respect to baseline characteristics with a median follow-up of 3.7 years. Median age was 61 years, 74% were male, median BMI was 29.8kg/m², and median SUA at baseline was 6.1 mg/dl (IQR: 5.2, 7.2). In the placebo group, rates for both gout and major adverse cardiovascular events increased across baseline SUA strata. Rates were 0.28, 1.36, and 5.94 per 100 person years for gout and 4.1, 5.3, and 5.6 for major adverse cardiovascular events per 100 person years for SUA levels of <6.9 , 6.9–8.9, and ≥ 9.0 mg/dL, respectively. Random allocation to all dosages of canakinumab reduced rates of incident gout (see figure 1). This reduction in gout by canakinumab was observed at all baseline SUA levels (see table 1), and canakinumab had no effect on SUA levels over time but did reduce hsCRP.

Abstract OP0014 – Table 1. Gout risk by treatment assignment, stratified by baseline serum urate

		Placebo		Canakinumab (all dosages)				
		N	Events	Rate (95% CI)	N	Events	Rate (95% CI)	HR (95% CI)
Gout events								
SUA	<6.9 mg/ dl	2326	24	0.28 (0.18– 0.41)	4614	19	0.11 (0.07– 0.17)	0.40 (0.22– 0.73)
	6.9– 8.9 mg/dl	831	41	1.36 (1.00– 1.85)	1684	41	0.65 (0.48– 0.89)	0.48 (0.31– 0.74)
	≥9 mg/dl	186	34	5.94 (4.25– 8.32)	418	36	2.55 (1.84– 3.54)	0.45 (0.28– 0.72)

SUA, serum urate; Rate per 100 person-years; HR, hazard ratio; CI, confidence interval. Hazard ratios calculated using placebo as reference.