918 Friday, 05 June 2020 Scientific Abstracts

In the workshops, 11 patients and 130 nurses participated. Eligible adult patients, diagnosed with a rheumatic disease, were recruited by newsletter from the Dutch Arthritis Foundation. Nurses were recruited by newsletter from the Dutch Nurses Organisation (V&VN).

According to participants, the framework alone is only useable when additional explanation and illustration of concepts will be provided and following missing topics are added; communication between specialisms, knowledge of the health-care system, responsibility allocation, faith, religion, culture, nutrition, lifestyle, prevention.

The self-management web appeared to be helpful. Not all cards with needs could be placed in this web. It was suggested to add following topics to the web: Peer support or experience experts' contact, handling treatment recommendations, patient empowerment, defining limitations and supporting services like physiotherapy and municipality.

There is overlap between topics of the web: Lifestyle, leisure and self-care. It was suggested to place associated topics together or give the same colour.

Practical ideas for application of the web and about involving an experienced expert were discussed as well as the role of health professionals. Integration in e-health, linked to the medical file with visual support is preferred. Patients have to prepare themselves for consulting the nurse or doctor.

Communication plays a very important role for all elements. The tool should be usable for people with limited health literacy skills and nurses need skills like motivational interviewing for using the tool.

Conclusion: Existing frameworks seem useful as a scientific basis for the development of a communication tool for self-management support. Usability of a draft tool will be explored in a pilot study.

References:

 Ammerlaan J. Preferences and needs of patients with a rheumatic disease regarding the structure and content of online self-management support. Pat Educ Counsel. 2017;100(3):501-8.

[2]Been-Dahmen, J.M.J. (2018). Self-Management Support: A broader perspective on what patients need and nurses could provide.

Disclosure of Interests: A.J.L. Meier: None declared, Yvonne van Eijk-Hustings Grant/research support from: grand from sanofi and UCB, Consultant of: fee from amgen, Bertha Maat: None declared

DOI: 10.1136/annrheumdis-2020-eular.4437

FRI0627-HPR

COGNITIVE DISORDERS IN SYSTEMIC LUPUS ERYTHEMATOSUS WITH JUVENILE-ONSET: ONE SINGLE CENTER EXPERIENCE

M. Kaleda¹, N. Stepanenka¹, <u>I. Nikishina</u>¹. ¹V. A. Nasonova Research Institute of Rheumatology, Pediatric Department, Moscow, Russian Federation

Background: Juvenile-onset SLE (jSLE) is a more aggressive disease than in adults due to several reasons including cognitive dysfunction, significantly affected the compliance and social rehabilitation of patients (pts).

Objectives: To analyze the cognitive, emotional and communicative status of pts with iSLE.

Methods: The study included 31 pts (90.3% girls) with jSLE, verified in accordance to SLICC criteria 2012. All pts underwent standard examination in accordance with the diagnosis; in case of suspected neuropsychiatric disorders pts were examined by a neurologist, psychiatrist. Classifying of neuropsychiatric disorders was performed in accordance with the recommendations of the ACR,1999. SLE-DAI 2K was used for disease activity assessment. All pts were examined by a clinical psychologist using the standard pathodiagnostic testing.

Results: The median age at the onset was 12.0 y.o. [10.6;14.5]. The median disease duration at the time of diagnosis - 0.75 ys [0.5;2.1]. 35.5% pts had neuropsychic disorders at the onset: psychoses — 12.9%, headaches — 12.9%, cognitive disorders — 19.4%, mood disorders — 16.1%, distal polyneuropathy — 12.9%. MRI of the brain was performed in 15 pts: CNS vasculitis was diagnosed in 3 pts (2 — with psychosis, 1 — with cognitive impairment). Median disease activity by SLEDAI at the time of diagnosis was 15 scores [10:23].

At the time of examination by the clinical psychologist, the median age of pts was 15.2 ys [12.9;16.5]. The median disease duration was 1.1 ys [0.6;3.8]. Cognitive disorders were detected in 96.8% of the pts. The auditory-speech short-term memory was distributed between the medium and high levels (54.8% and 45.2%, respectively), and the high level of memorization prevailed in the long-term memory (67.7% high, 32.3% medium). A high level of indirect memory was revealed in 67.8% of pts, medium - in 25.8%, and low - in 6.4%. Distribution of the difficulties of attention were identified (64.5% - uneven distribution), 35.5% - sufficient distribution), as well as increased attrition of attention (74.2% - attrition is detected, 25.8% - no attrition). 58.1% of pts demonstrated a high level of inclusion into work, 41.9% - a low one. Concentration of attention was recognized as sufficient in 87.1% of pts, insufficient in 12.9%. The effectiveness of attention was rated as

good in 87.1%, decreased — in 12.9%; stability is sufficient - in 64.5%, low - in 35.5%. In the operational side of thinking, a decrease in the level of generalization was revealed (48.4%); there were no disturbances in the motivational component, lability of thinking in the dynamic (12.9%). Various neurotic fears are characteristic for 54.8% of pts; the level of personal anxiety was increased in 41.9%, moderate - in 48.4%, low - in 9.7%. Signs of aggression were revealed in 19.4% of pts, a decrease in the level of social adaptation - in 51.6%. Communication difficulties experienced 83.9% of pts. According to the results of the clinical conversation, attention was focused on availability of conflict situations with peers in the disease onset in 38.7% of pts.

Conclusion: Cognitive disorders were detected in the majority of pts with jSLE, regardless of the presence of neuropsychiatric disorders at the onset. The revealed features of the clinical and psychological status of pts with jSLE must be considered when working out an individual rehabilitation model and develop psycho-correctional programs.

Disclosure of Interests: None declared **DOI:** 10.1136/annrheumdis-2020-eular.4237

FRI0628-HPR

EVALUATING A COMPLEX PACKAGE OF CARE IN THE EAST-MIDLANDS KNEE PAIN FEASIBILITY COHORT RANDOMISED CONTROLLED TRIAL

P.A. Nomikos^{1,2,3}, A. Fuller^{1,2,3}, M. Hall^{1,2,4}, B. Millar^{1,2,3}, R. Ogollah⁵, M. Doherty^{1,2,3}, R. Nair^{2,6,7}, D. Walsh^{1,2,3}, A. Valdes^{1,2,3}, A. Abhishek^{1,2,3}.

¹NIHR Nottingham Biomedical Research Centre, Nottingham, United Kingdom; ²Pain Centre Versus Arthritis, University of Nottingham, Nottingham, United Kingdom; ³Academic Rheumatology, University of Nottingham, Nottingham, United Kingdom; ⁴School of Health Sciences, University of Nottingham, Nottingham, United Kingdom; ⁵Nottingham CTU, University of Nottingham, Nottingham, United Kingdom; ⁶Institute of Mental Health, University of Nottingham, Nottingham, Nottingham, United Kingdom; ⁷Division of Psychiatry & Applied Psychology, University of Nottingham, Nottingham, United Kingdom

Background: The role of nurses in managing painful knee OA has been advocated but whether nurses can deliver such interventions as a package of care is unknown. The overall aim of this research is to develop and test a nurse-led complex intervention for knee pain comprising non-pharmacological and pharmacological components. In the first study phase, we report on fidelity and acceptability of a non-pharmacological intervention, to resolve possible challenges to delivery.

Objectives: To evaluate fidelity of delivery and acceptability of non-pharmacological components of a complex intervention.

Methods: This was a mixed-methods study. Participants with chronic knee pain were recruited from the community to receive the intervention, delivered in 4-sessions over a 5-week period by a trained research nurse. The intervention consisted of holistic assessment, patient education and advice, aerobic and strengthening exercise and weight-loss advice if required. All sessions were video-recorded. Fidelity checklists were completed by the nurse (nurse-rated) and two researchers from the video-recordings (video-rated). Median fidelity scores (%) and interquartile ranges (IQR) were calculated for each component and each session. Semi-structured interviews were conducted with participants. These were audio recorded, transcribed and analysed following the framework approach.

Results: 18 participants (34% women), with a mean (SD) age and BMI of 68.7 (9.0) years and 31.2 (8.4) kg/m², took part in the study. Of these, 14 completed all visits. In total, 62 intervention sessions were assessed for fidelity. Overall fidelity was rated high by both nurse-rated scores (97.7%) and video-rated scores (84.2%). The level of agreement between nurse-rated and video-recorded methods was 73.3% (CI 71.3, 75.3) and the inter-rater agreement was 65.5% (CI 60.3, 70.5). Fidelity of delivery was lower for advice on footwear modification and walking aids in all sessions and moderate for education in session 1 and for exercise in session 4 (Table 1).

Table 1. Fidelity scores of the components of the intervention for each session,

Intervention components	Session 1*	Session 2*	Session 3*	Session 4*
Education Exercise Adjunctive treatments	78.1 (74.1, 93.7) 94.4 (88.9, 100) 50 (45.83, 100)	87.5 (50, 100) 88.9 (75, 94) 0 (0, 50)		100 (93.7, 100) 75 (67.6, 82.8)

*median (IQR)

17 participants were interviewed. Most found advice supplied straightforward. They were satisfied with the package, which changed their perception of

Scientific Abstracts Friday, 05 June 2020 919

managing knee pain, understanding it can be improved though self-management. However, too much information was provided in a short time-span and it was difficult to fit exercises into their daily routine.

Conclusion: Delivery of a non-pharmacological intevention by a nurse is feasible within a research setting. Most components of the intervention were delivered as intended, except for advice about the use of adjunctive treatment.

Acknowledgments: This research was funded by the NIHR Nottingham BRC and Pain Centre Versus Arthritis

Disclosure of Interests: Polykarpos Angelos Nomikos: None declared, Amy Fuller: None declared, Michelle Hall: None declared, Bonnie Millar: None declared, Reuben Ogollah: None declared, Michael Doherty: None declared, Roshan Nair Speakers bureau: Financial support from pharmaceutical companies (Biogen and Novartis) to present lectures at events related to psychological support for people with multiple sclerosis (Speaker's bureau)., David Walsh Grant/research support from: 2016: Investigator-led grant from Pfizer Ltd (ICRP) on Pain Phenotypes in RA; non-personal financial disclosure (payment to University). Consultant of DAW has undertaken paid consultancy to Pfizer Ltd, Eli Lilly and Company and GSK Consumer Healthcare., Paid instructor for: 2019: Consultancy to Love Productions; consultancy on programme design, contribution to programme content on self-management of chronic pain (payments to University)

2019: Consultancy to AbbVie Ltd; 13.06.19; presentation on RA pain at EULAR, Madrid, and webinar (payments to University).

2019: Consultancy to Eli Lilly and Company Ltd. 06.06.19 Centre for Collaborative Neuroscience, Windlesham, Surrey, UK (payment to University).

2019: Consultancy to Pfizer (payment to University).

2018: Consultancy to Pfizer. 07.12.18. USA. 1 day. Tanezumab (payment to University).

2018: Consultancy to Pfizer. 23.11.18. Manchester UK. 1 day. Tanezumab (payment to University).

2018: Consultancy to Pfizer. 1.11.18. Skype. 4h. Tanezumab (payment to University).

2018: Consultancy to GlaxoSmithKline Plc. 1 day. Pain in RA and anti-GM-CSF (payment to University).

2018: Consultancy to Pfizer Ltd; Presentation at OARSI; non-personal financial disclosure (payment to University)

2018: Consultancy to Pfizer Ltd; Patient preference study; non-personal financial disclosure (payment to University)

2017: Consultancy to Pfizer Ltd; personal financial disclosure

2017: Consultancy to Pfizer Ltd through Nottingham University; non-personal financial disclosure (payment to University).

2015: Consultancy to GSK Consumer Healthcare; personal financial disclosure., Speakers bureau: 2019: Irish Society of Rheumatology: speaker fees (personal pecuniary), Ana Valdes Grant/research support from: Awarded a grant from Pfizer, Abhishek Abhishek: None declared

DOI: 10.1136/annrheumdis-2020-eular.1393

FRI0629-HPR

USE AND USABILITY OF THE DR. BART APP AND ITS **RELATION WITH CLINICAL OUTCOMES IN PEOPLE** WITH KNEE AND/OR HIP OSTEOARTHRITIS

T. Pelle^{1,2}, J. Van der Palen³, F. Van den Hoogen^{1,2}, K. Bevers¹, C. Van den Ende^{1,2}. ¹Sint Maartenskliniek, Rheumatology, Nijmegen, Netherlands; ²Radboudumc, Rheumatology, Nijmegen, Netherlands; ³University of Twente, Research Methodology, Enschede, Netherlands

Background: Self-management is of paramount importance in non-surgical treatment of knee and/or hip osteoarthritis(OA). Modern technologies offer the possibility to support self-management 24/7. We developed an e-self-management application (dr. Bart app) for people with knee and/or hip OA.

Objectives: To document the use of the dr. Bart app and its relation with health care utilization and clinical outcomes in people with knee and/or hip OA.

Methods: For this study we used back end data of the first 26 weeks from the intervention group (N=214) of a RCT (total included 427) examining the effectiveness of the dr. Bart app. Participants were included based on self-reported knee and/or hip OA. In figure 1 the theoretical framework of the dr. Bart app is presented. A central element of the dr. Bart app is that the app proposes a selection of 72 preformulated goals for health behaviours based on the 'tiny habits method'1 (e.g. today I rise 12 times from my chair to train my leg muscles). The proposals are tailored to user characteristics and related to four themes that are core elements in the non-surgical management of OA. After a user completes one or more of the selected goals, a new selection is proposed by dr. Bart. A user can work on 3 goals simultaneously. Goals can be completed more than once by the same user. To assess the association between intensity of use of the app and health care utilization and clinical outcomes, we calculated Spearman rank correlation coefficients.

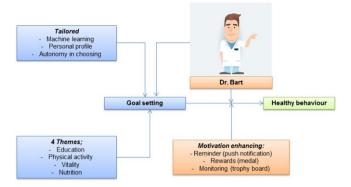


Figure 1. Theoretical framework of the dr. Bart app.

Results: 171 / 214 participants (80 %) logged in at least once whilst 151 (71%) chose at least one goal and 114 (53 %) completed at least one goal during the 26 weeks. Of those who chose at least one goal, 56 participants (37 %) continued to log in up to 26 weeks, 12 (8 %) continued to select new goals from the offered goals and 37 (25 %) continued to complete goals (Figure 2). Preformulated goals regarding the themes activity (e.g. performing an exercise from the exercises library of the app) and nutrition (e.g. eat 2 pieces of fruit today) were found to be most popular by users. We found no correlations between intensity of use and health care utilization and clinical outcomes.

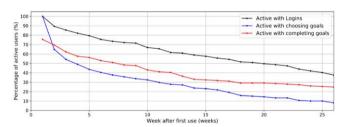


Figure 2. Percentage of active users (N=151) over time.

Conclusion: A considerable proportion of persons with knee and/or hip OA persistently used the app up to 26 weeks. Patients appear to have preferences for goals related to activity and nutrition, rather than for goals related to vitality and education. We found no relation between intensity of use of the dr. Bart app and health care utilization and clinical outcomes.

References:

[1] Fogg GJ: A behavior model for persuasive design. In: Proceedings of the 4th international Conference on Persuasive Technology: 2009: ACM; 2009: 40.

Disclosure of Interests: None declared DOI: 10.1136/annrheumdis-2020-eular.1299

FRI0630-HPR

ONE-YEAR FOLLOW-UP OF A NURSE-LED TEAM INTERVENTION EFFECTIVE IN REDUCING THE NOCEBO EFFECT WHEN SWITCHING FROM ORIGINATOR INFLIXIMAB TO A BIOSIMILAR.

J. Petit¹, M. Antignac², K. Louati¹, S. Desouches¹, N. Deparis³, R. Baratto¹, R. Poilverd¹, S. Dartout¹, F. Berenbaum¹, C. Beauvais¹. ¹Hôpital Saint Antoine, APHP, Rhumatologie, Paris, France; ²Hôpital Saint Antoine, APHP, Pharmacie, Paris, France; ³Association Nationale de Défense contre L'Arthrite Rhumatoïde, Paris, France

Background: Nonspecific subjective adverse effects and symptoms (NSAE/ NSS), usually considered as related to a nocebo effect (NE), have been identified as a barrier to the acceptability of switches from biologic originators (BO) to biosimilars (BS) in rheumatology. A multidisciplinary team intervention with a prominent role of nurses has provided a reduction of the NE assessed in the short-term during a systematic switch from originator Infliximab (OI) to the biosimilar infliximab SB2 (ref.1).

Objectives: To assess the intervention outcomes after one-year follow up in comparison with a historical cohort.

Methods: The intervention was developed after a literature search and semi-directive interviews of patients, and included consensual communication towards patients, with a prominent role of nurses (Ref.1). All patients with chronic inflammatory rheumatic diseases (CIRD) treated by OI were included and followed-up