5.5/10 pre-education; this rose to a median of 10/10 post-education. The median anxiety score was 3/5 pre-education; this dropped to 2/5 post-education. The presentation was adapted based on questions that arose during the sessions. Multiple patients gave informal, verbal feedback stating that they found the group environment to be beneficial, providing a chance to meet others with similar conditions, share experiences and feel reassured that they are not alone in starting biologic therapy.

Conclusion: Patient feedback demonstrated that the group education sessions at UCLH were effective in improving their understanding of the rationale for biologic treatment, increasing their confidence in self-administration, and reducing anxiety. Verbal feedback illustrated that many patients enjoyed the group environment, and the opportunity to interact and share experiences with others. At an average rate of 4 patients currently being seen a week, it is estimated that this will save 192 specialist nurse appointments per year (out of an estimated 226 commencing biologic therapy). There is scope for further research into the effects that this has had on waiting times to receive education / start treatment, and on drug compliance.

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AB1350-HPR SOCIOECONOMIC BURDEN OF NON-ATTENDANCE IN RHEUMATOLOGY CONSULTATION

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Background: Outpatient non-attendance refers to the phenomenon of patients who have a medical appointment but do not show up at the specified date, time, and location without giving previous notice.¹ In addition to affecting the efficiency and thereby increasing the healthcare total costs, nonattendance might also delay access to care for users on waiting lists.¹ Nonattendance at health appointments is costly to services, and can risk patient health.² There is very little data on the nonattendance prevalence and impact in Portugal. This knowledge might be fundamental to improve effectiveness of outpatient care in Portugal.

Objectives: 1) describe patient's non-attendance rate; 2) assess and characterize the sociodemographic and clinical characteristics among non-attending patients; 3) estimate the economic burden of non-attendance.

Methods: Retrospective, cross-sectional and analytical study. We reviewed a one-month Rheumatology consultation period regarding performed medical consultations and non-attended consultations without previous notification from patients. Direct economic costs of non-attended appointments were calculated based on the "Amending Agreement to the ULSAM, EPE Program Agreement".

Results: 982 consultations within January 2018 were included. Appointments episodes for therapeutic prescription, medical reports or programmed admissions were excluded. Fifty-seven (5.8%) of scheduled outpatient appointments were non-attended. Subsequent consultations represented 85.2% of attended appointments and 80.7% of non-attended appointments. Female gender was the most prevalent in both groups – 620 (67.0%) among attended consultations and 37 (65.0%) among non-attended consultations. Mean age was 57±15 years in the first group and 54±16 years in the second one. Among attended appointments, mean education level was 8±5 years versus 9±6 years among non-attended appointments. There were no differences between both groups in gender, age, education level, diagnosis, disease duration and activity or appointment type (first or subsequent consultation). A cost of 2,438 euros was estimated regarding non-attended appointments for this period, what could represent a burden of more than 29,000 euros yearly, in direct costs, only.

Conclusion: Non-attendance at scheduled appointments in public hospitals seems to be influenced by other factors besides gender, age and education level. The burden of non-attended appointments is undeniable. In addition to the costs estimated in this study, further indirect costs such as poorer patients outcomes, impaired access to medical care and hospital penalties should be taken into account. Implementation of awareness strategies aiming the optimization and effectiveness of healthcare system are required.

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AB1351-HPR A HAND EXERCISES MHEALTH APP FOR PATIENTS WITH RHEUMATOID ARTHRITIS: DEVELOPMENT, DESIGN AND USABILITY STUDY IN TURKEY

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Background: The Strengthening and Stretching for Rheumatoid Arthritis of the Hand (SARAH) programme has been shown to provide long term improvement in hand function for patients with rheumatoid arthritis (RA) affecting their hands. In Turkey, limited number of physiotherapists work in rheumatology departments so there is an opportunity to use the digital technologies for exercise prescription and follow up to improve access to treatment. Growing research evidence supports the effectiveness of mHealth interventions for improving exercise adherence and motivation. To our knowledge, there is no hand exercises mHealth program for patients with rheumatoid arthritis designed by experts with the user-centered method.

Objectives: The aim of our study is to develop and design a smartphone application for structured hand exercise program for patients with RA in Turkey and to test its usability.

Methods: We used a qualitative user-centered design approach with 2 phases. PHASE 1: we conducted focus group meetings to discuss the content, feature and design of app to produce a prototype version of smartphone software for RA hand training program. The Focus Group consisted of two physiotherapists and three hand therapists working in the field in different rheumatology or hand rehabilitation clinics, two software-computer engineers, and three patients with RA who had previously participated in hand therapy. The focus group met 4 times during phase 1. PHASE 2: we investigated the usability of prototype version of the rheumatoid hand exercise smartphone app software. All focus group members (n=10) and 6 patients used the app for one week. All users filled the usability questionnaire and provided written feedback on the app. Revisions were made and the revised version was tested. We put the revised app in digital markets in Turkish and English.

Results: The major themes identified from the Focus Group discussions during phase 1 were (a) Login techniques (b) self-monitoring (c) exercises types/frequency/diary, (d) patient education, (e) behavioral change and encouragement (f) exercise adherence. Patients and therapist all agreed the login needed to be easy. Patients wanted to be able to monitor their pain levels and hand function in the app. Patients thought the SARAH exercise were suitable for the app. A patient said: 'SARAH exercises is beneficial for my hand and tendon gliding exercise, I will be happy to see these exercises in app'. Patients wanted exercise reminders using push up notifications to encourage exercise were proposed and included. A patient commented 'in the morning and after work, motivational push up messages could be beneficial for exercise habit.' During the phase 2, we identified a need for education on how to use digital app, ways to provide patient follow up to monitor adherence, the need to allow patients to select the amount of notifications. This feedback was incorporated into the final version.

Conclusion: mHealth applications represent an easily accessible bridge between patients and health professionals for home-based programs. Using a user-centered approach ensured that we developed an application that met the needs of therapists and patients. Physiotherapists are using the app in rheumatology clinics in Turkey and long-term usability and feasibility studies are ongoing.

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AB1352-HPR SHARED CARE – AN ALTERNATIVE WAY TO COPE WITH INCREASING SERVICE DEMAND

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Background: Rheumatic diseases are immune-mediated disorders that affect the musculoskeletal system, soft tissues, blood vessels and connective tissue. Patients with rheumatic diseases need regular follow up for disease and drug toxicity monitoring. To cope with the increasing service demand, the Division of Rheumatology in the United Christian Hospital developed and expanded the shared care service. In the conventional practice, patients have to be seen by rheumatologist for every visit while the shared care service involved follow up by rheumatologist and rheumatology nurse in alternate sessions.

Objectives:

1. To evaluate the effectiveness and safety of the shared care service

2. To evaluate the effectiveness of reduction in workload of rheumatology clinic

Methods: This is a retrospective study involving the period from 1/1/2019 to 31/12/2019. Patients who attended the rheumatology nurse clinic for shared care were recruited and reviewed. All patients were selected and referred by rheumatologists. Criteria for shared care included regular follow up in rheumatology clinic and stable clinical condition. The length of follow up is adjusted according to patient condition. Services provided by rheumatology nurse (RhN) included disease education, drug and disease monitoring, drug advice and referral to other professionals and community service as indicated. During each visit, patient's vital signs, disease activity and laboratory results were assessed according to standard protocol. RhN will make discharge record to ensure continuity of care.

Results: Totally 489 episodes of attendance to nurse led clinic were recruited. Majority (97.3%) were arthritis patients. Others included lupus, vasculitis, Sjogren's syndrome and miscellaneous conditions. The length of follow up ranged from 3 weeks to 24 weeks and most of the patients were follow up between 8 to 16 weeks. Shared care patients included those with stable disease for interval monitoring, and patients for drug initiation and titration. The ratio for disease monitoring and drug monitoring are 41.3% and 58.7% respectively.

For the 489 episodes of attendance, 10 (2%) episodes needed rheumatologist intervention and 8 (1.6%) cases need advancement of follow up. Problems that required doctor interventions and advance follow up mainly are suboptimal disease control requiring medication adjustment or musculoskeletal ultrasound investigation.

178 (36.4%) episodes of nursing intervention were delivered, majority were medication advice (133, 27.2%). Reasons for nursing intervention included adverse drug reaction, abnormal investigation results, poor drug adherence and disease flare up. There were no emergency department attendance or admission related to rheumatic problems within one month of RhN follow up.

Conclusion: The shared care service is smooth and can safely lengthen the follow-up intervals to reduce clinic visit burden in rheumatology clinic. RhN input also allowed prompt advice for steroid tapering and dose titration for disease specific medication for better disease control. Proper case selection and close collaboration between rheumatologist and rheumatology nurse is the key.

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HPR Professional education, training and competencies

AB1353-HPR EMPOWERING LEARNERS TO "OWN" THEIR PERFORMANCE: PRESENTING EDUCATIONAL PERFORMANCE DATA BACK TO LEARNERS AS A COMPONENT OF AND RATIONALE FOR SUBSEQUENT EDUCATION

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Background: Beginning in 2016, RMEI created multiple accredited online education focused on RA and designed for rheumatologists. In 2018, the educational scope expanded to include live meetings, starting with a symposium at EULAR. For all programming from 2016-18 (6 courses, in both live and online settings), educational content was developed based on performance data from the previous RA courses. During the 2019 EULAR symposium, we presented the outcomes findings - from both the 2018 symposium and online courses - to the assembled rheumatologists, identifying ongoing educational gaps observed in their specialty population. The rationale: to create continuity between symposia over time by demonstrating incremental improvements and continuing areas of need, while also endowing learners with a greater sense of ownership and investment in forthcoming educational content.

Objectives: To evaluate the impact of presenting learner's educational performance data to them before education addressing persistent gaps identified in their performance the year prior.

Methods: Data collected during the 2018 EULAR symposium was analyzed to understand the underlying drivers impacting poor performance in an identified area of ongoing educational need (cycling versus switching TNF inhibitors). A linear regression model was run including all non-related curriculum, demographic, and evaluation questions as possible drivers against those related low-scoring (at Post-Test) curriculum questions. The content of RMEI's 2019 symposium at EULAR was developed to address the identified significant drivers to improve population proficiency in cycling versus switching. In addition to developing content based on the above findings, that data was also presented to learners in poster format prior to their participation in the 2019 symposium. During the period between on-site registration and the start of the symposium, attendees had the opportunity to explore data-driven insights, via audio-guided posters located around the meeting room. These insights included discussion of 2018 data analysis, identified drivers of poor performance, introduced the iterative data-driven methodology employed, and rationale behind content development for the 2019 symposium. At the conclusion of the 2019 symposium learners were asked to describe the impact/relevance of being presented with their performance data, their intention of incorporating course content into practice, and what specifically they intended to change.

Results: Data was collected on 135 clinicians (primarily physicians who actively treat patients with rheumatoid arthritis) who attended, and participated in, the symposium. With specific regard to the impact of seeing their own data presented back to them, 80% reported that seeing the learner data from the 2018 symposium enhanced their current learning experience. Further, 86% reported that they intended to incorporate course content into their clinical practice. Specifically, this population reported an intent to change their treatment approach and patient education practices.

Conclusion: Education is only as effective as the degree to which the audience is engaged. While year over year data from 2016 through 2018 demonstrated that an iterative approach facilitated the meaningful and necessary reinforcement of challenging concepts, learners in prior years were not aware of the methodological underpinnings of the educational offerings. Presenting this population with findings derived from their performance - as a rationale for the education they were about to participate in proved a compelling motivator for active learner engagement, and may have had a positive influence on the degree to which learners implemented course content into their clinical practice.

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AB1354-HPR CURRENT SITUATION OF TRAINING IN RHEUMATOLOGY IN THE POSTGRADUATE CURRICULUMS OF INTERNAL MEDICINE, FAMILY MEDICINE, GERIATRICS, PAIN MEDICINE AND, PHYSICAL AND REHABILITATION MEDICINE ACROSS COLOMBIA

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Background: Rheumatic diseases are an important complaint in patients, although the incidence is low, they cause disability and impact on the health system. Currently, in Colombia, there are 198 rheumatologist, so it's important to know how is rheumatology training in specialties related to rheumatology, which are the specialties that the patient with a suspected rheumatic disease will visit at first.

Objectives: To describe the training status in rheumatology in the postgraduate curriculums of internal medicine, family medicine, geriatrics, pain medicine and, physical and rehabilitation medicine across Colombia.

Methods: This is a descriptive cross-sectional study. A survey was applied in each participating medical school using the RedCap® platform. The questionnaire included multiple-choice responses and a textbox to complete. The survey was done to the 29 registered medical schools which offer the specializations