the second cycle. Socio-demographic, personal characteristics and life habits were collected. LBP was assessed using the Nordic musculoskeletal health questionnaire. The impact of low back pain was assessed using the Oswestry disability index (ODI).

**Results:** One hundred and seventy-nine students were included. The mean age was 22.9 ± 2.3 years [19.64-28.21]. The sex ratio was 0.29. The average body mass index was 23.55 ± 4.22 kg/m² [17.63-43.07]. 82% of the students were in the second cycle of medical studies. 26.4% of the students had a regular sports activity, 91.2% spent more than 4 hours a day in a sitting position. The point, annual, and lifetime prevalence of LBP among medical students was 41.2%, 80.4% and 90.6%, respectively. Low back pain was acute in more than 58.8%, subacute in 14.9% and chronic in 26.3%. The mean ODI score was 10.32 ± 8.48 [0-32]. Students with LBP were significantly younger than students without LBP (p = 0.015). LBP was more common in students who spent more than 4 hours in a sitting position with a difference at the limit of significance (p = 0.059). Being in the 2nd cycle was significantly associated with the occurrence of LBP (p = 0.006). Poor screen projection in the amphitheater was significantly associated with the occurrence of LBP (p = 0.029). We found a statistically very significant relationship between the occurrence of LBP and the poor layout of the amphitheaters (p = 0.000).

The feeling of depression was significantly higher among LBP students (p = 0.018). Feelings of fatigue, being overwhelmed, irritability and worry were more frequently found in LBP students, but this difference was not statistically significant. In a multivariate analysis, the only factors that remained statistically significant were feeling of depression (p = 0.046, OR = 3.88; CI = [1.31-11.55]) and the poor layout of the amphitheater (p = 0.026, OR = 8.99; CI = [2.55-31.68]).

**Conclusion:** The annual prevalence of LBP was 80.4%. These results testify to the magnitude of this health problem. The factors associated to LBP seemed to be essentially modifiable factors. This encourages special attention from medical schools to increase students' awareness of low back pain and to provide appropriate measures to reduce this musculoskeletal disorder.

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**AB0963** HOW OFTEN DO DOCTORS TREAT PATIENTS WITH LOCAL DAMAGE TO THE PERIARTICULAR SOFT TISSUES IN REAL CLINICAL PRACTICE?

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**Background:** Damage of the periarticular soft tissues (DPST) - tendinitis, entesitis, bursitis, etc. are one of the most common reasons for patients to contact rheumatologists and orthopedic surgeons.

**Objectives:** To evaluate the frequency and localization of DPST in real clinical practice, as well as the effectiveness of therapy for this pathology in the acute period.

**Methods:** 68 outpatient orthopedic surgeons evaluated the frequency of initial patient recourse due to DPST within one month. The study did not include patients with systemic rheumatic diseases such as spondyloarthritids. The localization of DPST and the dynamics of clinical manifestations were evaluated in 1227 patients (women 42.5%, cf. age 51.3±15.5 years). Non-steroidal anti-inflammatory drugs (NSAIDs), mainly meloxicam, were used as a first-line treatment for DPST. The results of treatment were evaluated after 10-14 days with repeated visits of patients.

**Results:** 7766 cases of primary outpatient treatment by orthopedic surgeons were evaluated. DPST was the cause of treatment in 1227 (15.8%) patients. This was the third highest incidence after acute injuries (37.2%) and knee osteoarthritis (20.6%).

In patients with DPST, the most common lesions were in the knee area (knee entesopathy, prepatellar bursitis, pes anserinus area tendinitis/bursitis) - 21.2%, the foot (plantar fascitis) - 16.9%, the shoulder (tendinitis of the rotator cuff) - 16.4%, and the elbow (lateral and medial epicondylitis) - 15.3%. After treatment, there was a significant decrease in the severity of pain during movement - from 6.58±1.61 to 2.48±1.60 points on the numerical rating scale (p<0.001), a decrease in the intensity of pain at rest, at night and during palpation, as well as the severity of functional disorders. The need for local injection of glucocorticoids occurred in 22.1% of patients. Significant improvement was observed in all DPST localities, with 68.1% of patients rating the treatment result as “good” and “excellent.” Adverse reactions were observed in 15.0% of patients, and no serious complications were reported.

**Conclusion:** DPST is the third most frequent reason of recourse to a doctor after acute injuries and osteoarthritides of large joints in the practice of outpatient orthopedic surgeons. The use of NSAIDs in the maximum therapeutic dose for 10-14 days allows for significant improvement in DPST of different localization.

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**AB0964** THE ASSOCIATION BETWEEN RESIDUAL SYMPTOMS AND CERVICAL SPINE LESIONS IN RHEUMATOID ARTHRITIS

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**Background:** Treatment outcomes in rheumatoid arthritis (RA) have been improved with advances in drug therapy. In daily clinical practice, the outcomes are assessed based on the presence of swollen or tender joints, global assessment using a visual analog scale by a patient (GVAS) and a physician (DrVAS), etc., in addition to inflammatory findings. Although inflammation and joint symptoms are suppressed, many patients show no improvement in GVAS scores. The reported residual RA symptoms include morning stiffness (MS), pain (P), and dullness (D), but their causes are not completely known. Latent cervical spine lesions sometimes exist in RA, but their association with residual RA symptoms is unknown.

**Objectives:** We examined cervical spine lesions and residual symptoms in patients with RA who achieved the therapeutic goal.

**Methods:** Of 124 patients with RA, 82 (25 men and 57 women) who achieved a low disease activity (LDA) state on the Disease Activity Score for 28 joints with erythrocyte sedimentation rate (DAS28-ESR) were included. The mean age was 65.7 (28-83) years, and the disease stage was Stage I in 28 patients, Stage II in 14, Stage III in 13, and Stage IV in 27. Dysfunction was graded as Class 1 in 63 patients, Class 2 in 18, and Class 3 in 1 (Steinbrocker classification). Biopharmaceuticals had been administered in 27 patients. As for disease activity, the DAS28-ESR scores indicated complete remission in 54 patients and LDA in 28. The survey form was used to investigate the presence or absence/duration of MS, the presence or absence/severity of P (Pain VAS), and the presence or absence/severity of D (Dullness VAS). On lateral functional radiographs of the cervical spine, patients with spinal lesions were selected and divided into the asymptotic stability (AST; atlantoaxial dislocation ≤3 mm) + vertical setting (VS; Ranawat value <13 mm) group, the cervical spondylosis group (≥3 mm of slippage on dynamic radiographs), and the spondylolisthesis group (≥3 mm of spondylolisthesis on dynamic radiographs). They were examined for association with residual symptoms.

**Results:** According to cervical spine lesions, the patients who achieved the therapeutic goal were divided into the ASS+VS group comprising 15 patients (18.3%), the spondyloarthritis group comprising 11 (13.4%), and the stenosis group comprising 18 (22.0%). Among them, only the spondyloarthritis group showed significant differences in residual RA symptoms. In the spondyloarthritis group, the disease duration was longer, but there was no difference in age. MS, P, and D were significantly severer. The duration of MS was longer, and both Pain and Dullness VAS scores were higher. The score on each component of the DAS28 showed no difference in inflammatory findings. GVAS and DrVAS scores were higher. No common perceptions of spinal symptoms were shared between any patients with cervical spine lesions and physicians.

**Conclusion:** Improved patient-reported outcomes (PROs) are considered to be important to achieve more complete remission. There are various reports on the causes of residual RA symptoms, but many aspects remain unknown. Based on the results of this study, because asymptomatic subaxial subluxation is one of concerns in patients with spondyloarthritis with dynamic instability of the cervical spine, cervical spine lesions should also be considered in patients with severe residual symptoms. Not only radiography but also magnetic resonance imaging needs to be performed.

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**AB0965** EVALUATION OF THE IMPACT OF THE JOB STRESS ON THE ONSET OF MUSCULOSKELETAL DISORDERS IN THE HEALTHCARE WORKERS OF THE GENERAL HOSPITAL OF DOUALA, CAMEROON

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**Background:** Job stress (workload) and its repercussions on health have already been described. However, very few publications has been performed in sub-Saharan Africa.

**Objectives:** To assess the link between job stress and musculoskeletal disorders (MSD) among healthcare workers of the Douala General Hospital.

**Methods:** In this cross-sectional study, the job stress, evaluated according to the Karasek model, made it possible to measure job-strain (high psychological...
demand and low decision-making latitude), iso-strain (job-strain and lack of decision-making latitude), and low-strain (relaxed or low-load work).

Results: Among the 261 participants in the study, 67.43% were women. The average age was 39.80 ± 9.4 years. The average length of professional service was 8.91 ± 7.30 years [1 - 35 years]. Regarding the job stress, 65.14% of the healthcare workers followed at least 11 hours of work per day.

Conclusion: The healthcare workers in our study are exposed to a high psychological and physical job stress, causing MSDs. Ergonomic programs should be designed for these workers.

Disclosure of Interests: None declared

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AB0966 PREVALENCE OF SARCOPENIA IN PATIENTS WITH RHEUMATOLOGICAL DISEASES

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Background: The presence of sarcopenia in rheumatological patients is an independent predictor of morbidity and mortality in this cohort of patients. Patients with sarcopenia are characterized by lower physical activity, a tendency to depression and poor social adaptation.

Objectives: To assess the prevalence of sarcopenia in rheumatological patients.

Methods: 317 patients were examined, including 79 with systemic lupus erythematosus, 98 with rheumatoid arthritis, 72 with systemic spondyloarthritis, 68 with spondyloarthropathies. Among them, 201 women and 116 men, the age of patients ranged from 21 to 58 years, the average age at the time of inclusion of patients in the study was 41.1 ± 7.3 years. Sarcopenia was diagnosed using the method recommended by The European Working Group on Sarcopenia in Older People.

Results: The frequency of occurrence of a decrease in the total mass of skeletal muscle according to the skeletal muscle mass index (SMM) was 31.2% (99 patients), a decrease in muscle strength according to the wrist dynamometry was observed in 44.5% (141 patients), low skeletal muscle mass according to the results NIH Toolbox 4 Measure Waist Gait Speed Test in 42.8% (135 patients). The prevalence of suspected sarcopenia (probable sarcopenia) was 13.3% (42 patients) and sarcopenia 31.2% (99 patients), no cases of severe sarcopenia were detected. Statistically significant differences were obtained between groups of patients depending on the duration of rheumatological disease and the prevalence of sarcopenia (p=0.001).

Conclusion: The prevalence of sarcopenia in rheumatological patients in the general population was 31.2%.

Disclosure of Interests: None declared

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AB0967 OBESITY IMPACTS SURGICAL REPAIR OF ROTATOR CUFF TEAR IN A LOW-INCOME POPULATION

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Background: Rotator cuff tears (RCT) rank high among causes of shoulder pain in primary care. Surgical repair of RCT is indicated when judged refractory to clinical treatment. Comorbidities and environmental issues may impact the surgical result of RCT repair.

Objectives: to determine the impact of Obesity and Smoking in the outcome of low-income patients subjected to RCT repair.

Methods: Low-income (<$5000,00 USD annual pib per capita)* patients living in Fortaleza-Ce, Brazil were prospectively (2016-2018) evaluated in the Orthopedic and Rheumatology Services of the Hospital Geral de Fortaleza. Demographic and clinical data focusing Obesity (BMI >30) and Smoking status (present/absent) were registered. Pain (0 – 10cm VAS) and functional shoulder score evaluation by the University of California, Los Angeles Shoulder Score (UCLA) and American Shoulder and Elbow Surgeons (ASES) scoring systems following at least 2 years post-operative follow-up were recorded.

Results: Thirty-nine individuals, 60.9±7.1 years-old, 30 female (68.3%) with 5.1 ± 1.9 years follow-up were evaluated; 21 (44.7%) were Smokers and 12 (25.5%) obese (BMI >30). Other comorbidities included 16 arterial hypertension, 18 dyslipidemia, 17 osteoarthritis, 4 rheumatoid arthritis, 1.4 gout. Pain VAS values were 5.1 ± 2.8 vs 3.1 ± 2.8 in Obese vs Non-Obese (p=0.03) and 4 ± 2.8 vs 3.37 ± 2.99 in Smokers vs Non-Smokers (p=0.26), respectively. UCLA was 22.4 ± 8.2 vs. 28.79 ± 5.6 in Obese vs Non-Obese (p=0.004) and 26.2 ± 6.5 vs. 27.75 ± 7.18 (p=0.25) in Smokers vs. Non-smokers, respectively. ASES was 47389 ± 28.3 vs. 68.1 ± 25.78 (p=0.021) in Obese vs. Non-obese and 58.98 ± 26.69 vs 65.3 ± 28.1 (p=0.243) in Smokers vs Non-Smokers, respectively.

Conclusion: Using Patient Reported Outcome instruments, these long-term data show that Obesity negatively impacts the outcome of surgical repair of RCT in low-income patients. Smoking status was apparently irrelevant but the number of cigarettes smoked daily was not considered. Emphasis on weight reduction is a practical, affordable though hard to implement measure that could improve surgical results when repairing RCT.

References: [1] https://pt.wikipedia.org/wiki/Lista_de_munic%ED%C3%AADpios_do_Brasil_por_PIB

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AB0968 DIAGNOSIS OF INFLAMMATORY BACK PAIN (IBP) IN A LOW-INCOME POPULATION USING ASAS IBP DEFINITION

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Background: Inflammatory back pain (IBP) is an important entity for identifying patients with axial spondyloarthritis. Due to the very frequent prevalence of chronic non-inflammatory back pain (CBP), IBP is difficult to differentiate and recognize in many clinical practices. CBP is a frequent diagnosis in populations with low socioeconomic status.

Objectives: To investigate whether IBP ASAS definition help discriminate from CBP in a low-income population.

Methods: A total of 202 consecutive individuals were directly interviewed in Fortaleza/Brazil, for the prevalence of IBP (ASAS definition), monthly family income (US$), school education (>5 & 8 school-years/SY), and smoking habit (present/absent). People from all social levels were included.

Results: Mean age was 38.9±12.9 years, 100 (49.5%) were male and 36 (17.8%) were smokers; 135 (66.8%) declared less than 730US$/family earnings per month and 71 (35.1%) had less than 8SY. Although 122 (60.3%) declared lumbar pain, in comparison, 29 (14.3%) and 22 (10.9%) and 9 (29.2%) fulfilled ASAS, Berlin, and Calin’s IBP criteria, respectively. There were 39 (58.02%) vs. 83 (61.5%) with vs without CBP and 9 (3.6%) vs 20 (14.8%) fulfilling vs. not fulfilling the ASAS IBP definition among those with more or less than 730US$/earnings (P=0.05), respectively.

Conclusion: This is the first report on the prevalence of IBP in a very low-income population. Over one-third had less than 8SY, revealing very low literacy. Smoking prevalence was also low if compared to 28% smoking prevalence WHO estimates across Europe*. These IBP prevalence data are similar to those reported in wealthier populations, living in higher latitude. Data suggest that ASAS IBP definition may be used to discriminate patients with IBP from those with CBP regardless of income and literacy. References: This is the first report on the prevalence of IBP in a very low-income population. Over one-third had less than 8SY, revealing very low literacy. Smoking prevalence (17%) was also low if compared to 28% smoking prevalence WHO estimates across Europe*. These IBP prevalence data are similar to those reported in wealthier populations, living in higher latitude. Data suggest that ASAS IBP definition may be used to discriminate patients with IBP from those with CBP, regardless of income and literacy.

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AB0969 GAINED WEIGHT DURING PREGNANCY AND LOW BACK PAIN: IS IT REALLY ASSOCIATED?

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Background: Back pain is known to be a common complaint during pregnancy explained by gained weight in this period. Besides, the incidence of low back pain (LBP) in postpartum has also been quoted to be non-negligible even after delivery.

Objectives: The aim of our study was to assess if the development of LBP during the post-partum period was correlated to gained weight after delivery.

References: [1] https://pt.wikipedia.org/wiki/Lista_de_munic%ED%C3%AADpios_do_Brasil_por_PIB

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