(CC<30ml/mn) (6%), active cancer with local or general extension (6%), immunodeficiency state (SCID revealed by OAI in 2 cases). Three patients were on biological therapy.

The source of infection was known in 76 cases: skin infection in 27; urinary tract infection in 17; joint infection in 7 cases; dental infection in 6 cases; infected vascular material in 6 cases; abdominal infection in 5 cases; genital infection in 3 cases; ENT infection in 3 cases; pulmonary disease 2 cases.

Mean duration of symptoms ranged from 13 days for peripheral SA to 39 days for SPDI. Fever ($\geq 38^\circ\text{C}$) was present in 52% of cases. Mean CRP was 182 ± 128 mg/l. Blood cultures were positive in 55.5%. There was only one case of infectious endocarditis. All patients were treated with antibiotics with a mean duration of 10.2 ± 5.6 weeks. Orthopedic surgery was proceeded in 67% of peripheral septic arthritis and in 10% of the other OAI. Six patients were admitted in the intensive care unit; 4 patients died (4.3%). Mean length of hospitalization was 28.6 ± 15 days. **Conclusion:** in the years 2010-2020, non-tuberculous OAI represents a regular cause of hospitalization in rheumatology. Iatrogenic origin accounts for 13% of cases and urinary tract infection for 17%. *Staphylococcus* species are involved in only 48% of cases and *Streptococcus* species in 30%.

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POS1159

THE ROLE OF URINARY TRACT INFECTIONS AS A SOURCE OF OSTEOARTICULAR INFECTIONS IN A RHEUMATOLOGY DEPARTMENT DURING THE 2010-2020 PERIOD: A RETROSPECTIVE STUDY

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Background: There are several sources of infection in the pathogenesis of osteoarticular infections (OAI). Urinary tract infections (UTI) have rarely been involved whereas skin infection and *Staphylococcus aureus* represent the classic pair.

Objectives: To describe the role of UTI as the source of infection in OAI including septic arthritis (SA) on native joints and infectious spondylodiscitis (SPDI). To compare characteristics of these cases with those of others source and those without any known source.

Methods: Medical records of patients aged 18 years old or above who were diagnosed with a non-tuberculous OAI in the department of rheumatology of our hospital during the 2010-2020 period were selected and retrospectively reviewed. The following cases were excluded: SA on prosthetic joint, OIA on surgical material, osteomyelitis, post-operative OAI, SA after joint injection, brucellosis, Lyme disease. Only proven cases where included on the basis of an isolated pathologic organism at the site of OAI infection and/or in the blood (with typical clinical, biological and imaging features). Usually the OAI was considered of urinary source if the same microorganism grew in urine and the OA/ blood sample. Cases with probable urinary source were also included on the basis of the type of microorganism and a history of UTI and/or urologic surgery and/or recent antibiotic therapy.

Results: 95 consecutive cases of proven OAI were included. There were 17 cases (18%) of urinary origin. In 12 cases the same micro-organism grew in urine and OA/blood culture: 5 methicillin sensitive *Staphylococcus aureus*, 2 *Streptococcus Gallolyticus* (associated with *E. Coli* in one case), 1 *Escherichia Coli*, 1 *Klebsiella pneumoniae*, 1 *Enterococcus faecalis*, 1 *aerococcus urinae*, 1 candida glabrata. Five patients had a probable urine source. In one patient with SPDI and an history of recurrent UTI, blood culture grew *E. Coli* whereas urine culture grew *Enterococcus faecalis*. In 4 cases, urine was sterile but a sample (OA in 3, blood in 1) was positive for *E. Coli* (n=2) or *Pseudomonas aeruginosa* (n=2). The type of OAI was: SPDI in 10 cases, peripheral SA in 4 cases, both of them in one case and pubic symphysisitis in 2 cases. Blood culture was positive in 10 cases and OA sample in 9 cases. Demographics characteristics were: male 59%; age 68.7 ± 11 years. Risk factors were: diabetes 29%; cancer treated with cytotoxic chemotherapy 2 cases; inflammatory disease 2 cases; urological disease and/or recurrent UTI in 59%; immunodeficiency 1 case. Duration of symptoms was 47.1 ± 50.7 days. Urinary symptoms were present in 29% of patients and fever in 47%. There was no case of infectious endocarditis. Surgical intervention was realized in only one patient. No patient has been admitted in intensive care unit and no patient died. Length of hospitalization was 28 ± 8.5 days. Duration of antibiotic therapy was 13.6 ± 9 weeks. One patient with pubic symphysisitis was not cured.

The comparison between the group of OAI with urinary source (n=17) and the groups with another primary source of infection (n=52) or no known source of infection (n=26) shows in the first one: a higher prevalence of SPDI (59% vs 34% and 19% respectively), an older age (68.7 years vs 61.9 and 59.7 respectively), a higher prevalence of diabetes or cancer, a longer duration of symptoms (47.1 ± 50.7 days vs 21.9 ± 29.6 and 22.5 ± 25.4 respectively) and a lower mean value of CRP (156 ± 135 mg/l vs 182 ± 124 and 180 ± 140 respectively). A UTI was detected in 76% of OAI of urinary source but also in 13% of other cases (including *E. Coli* 5 cases).

Conclusion: In the years 2010-2020, UTI was responsible for 18% of non-tuberculous OAI as we defined them in this study. A UTI does not demonstrate the

responsibility of the microorganism isolated. Thoracolumbar SPDI is the main type. This relatively high frequency has not been reported before and is probably the consequence of the increasing population of aged patients with risk factors and urologic diseases. Clinicians have to be aware of it and prevention is required.

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POS1160

BRUCELLAR SPONDYLODISCITIS: CLINICAL AND MAGNETIC RESONANCE IMAGING FINDINGS

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Background: Osteoarticular involvement is one of the most common complications of brucellosis and it can occur in up to two thirds of patients infected. Vertebral involvement during brucellosis is considered not only as the most prevalent localization but also as the most severe one.

Objectives: The aim of the present study was to describe the clinical and the magnetic resonance imaging features of brucellar spondylodiscitis.

Methods: We conducted a retrospective study including 21 patients who have been hospitalized for spinal brucellosis from 1998 to 2019. The diagnosis of brucellosis was based on clinical symptoms, MRI findings and isolation of brucella species in blood or tissue specimens and/or a positive Wright agglutination test.

Results: Twenty-one patients were included. The mean age was 57.5 years [33-74] (13 males and 8 female). The geographical origin of the patients was rural in 76% of the cases. The median duration of symptoms progression before diagnosis was 4.5 months [1-8]. The main symptom leading to seek medical care was an inflammatory back pain and it was found in all cases. It was associated with unilateral radiculopathy in 8 cases and with a bilateral radiculopathy in 1 case. The other clinical features found were fever in 17 patients, sweats in 14 cases, weight loss in 10 cases and hepatomegaly in 1 patient. The physical examination revealed tenderness on palpation in 12 cases, a motor weakness of the two lower limbs in 2 cases. Brucella agglutination test was $\geq 1/160$ in all cases. Blood cultures were negative in all cases. The median erythrocyte sedimentation rate (ESR) and serum C-reactive protein level were 40 mm and 11 mg/dl respectively. Spondylodiscitis was located in the lumbar dorsal and cervical spine in respectively 10, 8 and 3 cases. The most affected level was the L4-L5 level in 5 cases followed by the T10-T11 level in 3 cases. The involvement of more than 2 vertebrae was found in 4 cases. Associated sacroiliitis was found in one patient. All MRI images of the affected vertebrae showed hypo intense signal on T1 weighted image and hyper intense signal on T2 weighted image. Disc space narrowing was found in 8 cases. Vertebral body osteolysis was found in 10 cases. Epidural collection was documented in 3 cases with a size up to 5 cm. Paravertebral and peri-vertebral abscesses were detected in 5 cases. Intradiscal abscesses were observed in 3 cases. Cord compression and involvement of root nerve were noted in respectively 5 and 1 cases. Biopsy was performed in 5 cases, but bacteriological examination was contributory to the diagnosis in 1 case. All patients received antibiotic treatment with a combination of two or three drugs, corticosteroids were prescribed in 5 patients and one patient underwent a surgical intervention. The evolution was good 16 in patients, three patients suffered from chronic back pain, one patient had persistent neuropathic pain and one patient had paresis.

Conclusion: Brucella spondylodiscitis is still a serious public health problem in developing countries. MRI findings associated with clinical symptoms may establish the diagnosis even if bacteriological examinations are negatives

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COVID-19

COVID-19

POS1161

A CITIZEN SCIENCE APPROACH TO CAPTURE POOR MENTAL HEALTH RELATED TO COVID-19 IN RHEUMATIC PATIENTS AFTER CONFINEMENT DURING PANDEMIC IN ITALY

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Background: A considerable psychosocial burden is one of the relevant consequences of the COVID-19 pandemic. In particular, quarantine measures have been related to negative psychological effects, including symptoms of post-traumatic stress disorder, stress, anxiety, and depression (1). This rise in mental health disorders might be even worse among people more vulnerable to psychological stress such as patients suffering from chronic rheumatic diseases (RDs).

Objectives: The present Italian nationwide survey engages patients with rheumatic conditions through eleven associations of RD patients. It is conducted to establish the COVID-19 related self-reported poor mental health symptoms and to identify potential factors associated with these concerns among RDs who experienced the COVID-19 quarantine in Italy.

Methods: We collected data from May to September 2020 from RD patients living in Italy during the COVID-19 quarantine by an ad-hoc online survey. By using their mailing list and the related webpage and social network, eleven patients' associations sent a call to RD patients asking them to complete an anonymous online survey which included the Perceived Stress Scale (PSS), and the Impact Event Scale-Revised (IES-R). χ^2 tests were performed to detect statistically significant differences in both rating scale scores between groups defined by qualitative variables. Correlation analyses were realized with quantitative variables and rating scale scores. Variables significant in univariate analyses were then inserted in multivariate regression models.

Results: In total, 507 RD patients completed to the survey. 375 (73.9%) patients had inflammatory arthritis (243 rheumatoid arthritis, 76 psoriatic arthritis, 49 ankylosing spondylitis, and 7 Still's disease), and 96 (18.9%) with connective tissue diseases or systemic vasculitis. 31 (6.1%) patients had primary fibromyalgia and 5 osteoarthritis or crystal arthropathies. Self-reported major sources of anxiety are reported in the Figure 1 below.

The mean (SD) scores of the PSS-10 and the IES-R were 18.1 ± 8.1 and 29.7 ± 17.5 , respectively. With regard to the IES-R subscale scores, the total sample did not show a prominence of one of the three main domains (intrusion, avoidance and hyperarousal). Higher PSS scores were significantly associated with younger age ($p < 0.01$), female gender ($p < 0.01$), living outside Lombardy ($p = 0.03$), presence of overweight/obesity ($p = 0.01$), ongoing psychopharmacotherapy ($p < 0.01$), and anxiety for loss of incomes ($p < 0.01$). Female gender ($p < 0.01$) and living outside Lombardy ($p = 0.02$) were associated also with higher IES-R scores, together with the presence of intestinal diseases ($p = 0.03$), anxiety disorders ($p < 0.01$), and worries about health ($p < 0.01$).

Conclusion: This nationwide study revealed a high impact of self-reported distress, anxiety, and perceived stress among rheumatic patients after confinement during COVID-19 pandemic in Italy. Different factors were found to be predictive of poor mental health such as having female gender, younger age, living outside Lombardy, having overweight/obesity, or intestinal diseases, having a history of psychiatric symptoms (e.g. anxiety). Moreover, the lockdown experience worsened psychiatric symptoms and increased the assumption of psychopharmacotherapy in this vulnerable population. Prevention strategies focused on specific variables should be implemented to ameliorate psychological well-being of fragile patients during pandemics.

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POS1162

PREDICTORS OF HOSPITALISATION IN PATIENTS WITH RHEUMATIC DISEASE AND COVID-19 IN IRELAND: DATA FROM THE COVID-19 GLOBAL RHEUMATOLOGY ALLIANCE PHYSICIAN-REPORTED REGISTRY

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Background: There is limited data regarding the risk of hospitalisation in patients with rheumatic disease and COVID-19 in Ireland.

Objectives: We used the COVID-19 Global Rheumatology Alliance (GRA) registry data to study outcomes and their predictors.

	All significant variable model			Most parsimonious model	
	Unadjusted OR (95% CI)	Adjusted OR (95%CI)*	Adjusted p-value*	Adjusted OR (95%CI) [§]	Adjusted p-value [§]
Female	0.45 (0.20-1.02)	0.33 (0.05-2.23)		0.34 (0.09-1.36)	0.128
Age (years)	1.08 (1.05-1.11)	1.04 (0.97-1.10)	0.224	1.06 (1.01-1.10)	0.010
Inflammatory arthritis	0.11 (0.05-0.28)	0.14 (0.02-0.95)	0.044	0.09 (0.02-0.32)	<0.001
Connective Tissue Disease and Other	1.56 (0.62 - 3.92)				
No comorbidities	0.11 (0.04-0.30)	0.76 (0.09-6.58)	0.802		
Most common comorbidities					
COPD / asthma	4.77 (1.23-18.54)	3.09 (0.16-60.07)	0.456		
CVD	3.40 (1.31-8.85)	0.11 (0.01-1.88)	0.129		
Hypertension	3.71 (1.52-9.08)	0.56 (0.04-7.94)	0.668		
Obesity	0.58 (0.10-3.30)				
Number of comorbidities (Median, IQR)	3.01 (1.92-4.72)	2.99 (0.59-15.02)	0.184	1.93 (1.11-3.35)	0.020
Never Smoker	ref.		0.889		
Ever Smoker	3.17 (1.18-8.89)	1.19 (0.10-13.68)			
Medication prior to COVID-19 diagnosis					
Glucocorticoids	9.26 (1.95-43.89)	18.14 (1.13-290.81)	0.041	15.01 (1.77-127.16)	0.013
csDMARD monotherapy	0.42 (0.17-1.00)				
b/tsDMARD (monotherapy or in combination with csDMARD)	0.24 (0.10-0.58)	1.36 (0.19-9.72)	0.557		