Of the 739 patients, 40 (5.4%) patients developed new onset OA knee, 38 (5.13%) had mechanical low back pain, and 882 patients had various rheumatological disorders, most commonly osteoarthritis (OA) (38.54%) patients and RT-PCR CHIKV in 223 (25.28%) patients. Combination of serum IgM CHIKV was positive in 128 (14.51%) patients, IgG CHIKV in 340 (38.25%) patients and RT-PCR CHIKV in 223 (25.28%) patients. Patients who tested positive for ≥1 lab tests were included in the study. Of the 1641 patients, 408 patients either refused the lab tests or were lost to follow up. Of the remaining 1233 patients, 882 (71.53%) patients tested positive for all the 3 lab tests. These patients were classified into rheumatological disorders as per validated criteria.

**Results:** We studied 882 consecutive patients of chikungunya infection with rheumatological disorders. Mean age of study cohort was 53.64 ±15.82 years with male:female ratio of 398:484 (54.88%). Mean disease duration of post CHIKV infection was 08.45 ±3.64 months. Serologically, isolated serum IgM CHIKV was positive in 128 (14.51%) patients. IgG CHIKV in 340 (38.54%) patients and RT-PCR CHIKV in 223 (25.28%) patients. Combination of serum IgG and IgM CHIKV both were positive in 62 (7.03%), IgM and RT-PCR CHIKV in 49 (5.55%) and IgG and RT-PCR CHIKV in 40 (4.54%) patients. All the 3 serum IgM, IgG and RT-PCR CHIKV were positive in 50 (5.67%) patients. Of these 882 patients, 143 (16.21%) patients had rheumatological disorder prior to CHIKV infection which flared up after the infection. Of the 143 patients, 69 (48.26%) had osteoarthritis (OA) knee, 29 (20.27%) had mechanical low back ache, 12 (8.39%) cervical spondylitis, 10 (6.99%) had rheumatoid arthritis (RA), 7 (4.89%) each had cervical spondylitis and ankylosing spondylitis (AS), 3 (2.1%) psoriatic arthritis (PsA), 2 (1.4%) each had SLE, deqervian tenosynovitis and granulomatous with polyangitis.

Remaining 739 patients presented with various rheumatological disorders, most common of which was post chikungunya polyarthritis in 568 (76.86%) patients. Of the 739 patients, 40 (5.4%) patients developed new onset OA knee, 38 (5.14%) met ACR/EULAR 2010 criteria for RA, 28 (3.78%) met modified New York criteria for AS, 29 (3.92%) developed undifferentiated arthritis, 17 (2.3%) patients developed various enthesitis and tenosynovitis, 1 (0.14%) patients fulfilled ACR 1990/SLICC 2012 criteria for SLE, 20 (2.7%) patients fulfilled ACR 2010 criteria for fibromyalgia, 5 (0.67%) patients fulfilled CASPAR criteria for PsA, 3 (0.4%) patients fulfilled 2015 classification criteria for Gout.

**Conclusions:** CD64 expression on neutrophils is helpful in differentiating bacterial infection from disease flare in patients with SLE and AAV.

**Disclosure of Interest:** None declared

**DOI:** 10.1136/annrheumdis-2018-eular.6722

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**RHEUMATOLOGICAL DISORDERS FOLLOWING CHIKUNGUNYA INFECTION – A RETROSPECTIVE STUDY OF 882 CASES FROM NEW DELHI**

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**Background:** Chikungunya virus (CHIKV) is notoriously arthritogenic and is known to cause a wide spectrum of rheumatological disorders.

**Objectives:** To study the Rheumatological Manifestations of CHIKV Infection.

**Methods:** Record of 1641 consecutive patients who presented to the outpatient department (OPD) with history of chikungunya infection (fever, joint pains/rash) during the period of 1st July 2016 to 31st October 2016 were checked and recruited from private hospital, camps and clinic from urban and suburban population from 1st February to 31st December 2017. The study cohort was subjected to laboratory tests – serum IgM, IgG and RT-PCR for chikungunya virus. Those patients who tested positive for ≥1 lab tests were included in the study. Of the 1641 patients, 408 patients either refused the lab tests or were lost to follow up. Of the remaining 1233 patients, 882 (71.53%) patients tested positive for all the 3 lab tests and 351 (28.47%) tested negative for all the 3 lab tests. These patients were classified into rheumatological disorders as per validated criteria.

**Results:**

- **CD64 expression on neutrophils** is helpful in differentiating bacterial infection from disease flare in patients with SLE and AAV.
- **Conclusions:** CD64 expression on neutrophils is helpful in differentiating bacterial infection from disease flare in patients with SLE and AAV.
- **Disclosure of Interest:** None declared
- **DOI:** 10.1136/annrheumdis-2018-eular.6722

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**SAT0384 EVOLVING PATTERNS OF REACTIVE ARTHRITIS**

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**Background:** Reactive arthritis (ReA) seen by rheumatologists may be changing in frequency (less common) and severity (less than full triad of symptoms and less chronic ReA). Epidemiologic changes in ReA could be due to less food borne illness, cleaner water, and possibly more rapid treatment of sexually transmitted diseases or for other unknown reasons.

**Objectives:** To understand rheumatologists’ perspectives about changes in frequency, severity, and manifestations of ReA.

**Methods:** After obtaining ethics approval, 548 members of the Canadian Rheumatology Association (CRA) were surveyed via email with a reminder email. There were 6 groups of questions: demographic information, views from respondents regarding the prevalence of ReA (including acute, recurrent, and chronic), tests ordered to investigate suspected ReA, treatments prescribed for ReA, causes of ReA in their practices, and perspectives on changes in the incidence, severity and causes of ReA over time. Descriptive statistics were used to analyse the data. Results were by physician report and were not confirmed by chart audits.

**Results:** Sixty-six rheumatologists completed the survey (15.5% response rate). The results of the survey indicated that 47% of rheumatologists believed that the incidence of ReA is declining, compared to 6% who thought it was increasing; and that the common causes may be changing (39% agreed/strongly agreed with a mean 3.45 on the Likert scale).

Acute, chronic, and recurrent ReA were all perceived to have similar frequencies in their practices. In terms of presentation, asymmetric oligoarthritis occurred in the majority of ReA seen by those surveyed (78%). Full triad ReA (arthritis, conjunctivitis, urethritis) was thought to occur in 21% of ReA cases, and patients with conjunctivitis were very likely to exhibit the rest of the triad. Similarly, patients with recurrent ReA were more likely to exhibit the full triad (43%) compared to acute or chronic ReA (14%). Rheumatologists believed that the infectious cause of ReA was found in only 35% of cases. The data indicate that the most common cause of ReA was ‘unknown’ infectious organisms, followed by gastrointestinal (GI) infections and sexually transmitted infections (STIs). Multiple tests were ordered to investigate ReA. The three most common investigations ordered by respondents included testing for chlamydia (66%), C-reactive protein (CRP) (62%), and human leukocyte antigen (HLA-B27) (50%). Imaging was ordered by 39% of respondents with sacroiliac (SI) joint imaging ordered by 21%, X-rays of the affected joints by 15%, and other imaging by 7.5%. Figure 1 shows these results.

Treatments used for ReA varied, as shown in figure 2. The most common treatments for ReA were nonsteroidal anti-inflammatory drugs (NSAIDS) (97% frequently or always used), intra-articular corticosteroid injections (65% frequently or always used), and disease-modifying antirheumatic drugs (DMARDs) (45% frequently or always used). Sixty-six percent said they used tumour necrosis factor alpha inhibitors (TNFi) at least occasionally in chronic ReA.

**Conclusions:** CHIKV is a worldwide epidemic which precipitates chronic inflammatory rheumatological diseases.

**Disclosure of Interest:** None declared

**DOI:** 10.1136/annrheumdis-2018-eular.6722