

| Incomes | N | Mean | Std. Deviation | Median | Minimum | Maximum |
|---------------------------|-----|-------|----------------|--------|---------|---------|
| Medications | | | | | | |
| Steroids | | | | | | |
| No | 91 | 43955 | 10357 | 40565 | 17946 | 67091 |
| Yes | 12 | 39702 | 8927 | 39643 | 32285 | 63629 |
| Hydroxychloroquine | | | | | | |
| No | 11 | 40530 | 7320 | 40159 | 31013 | 52924 |
| Yes | 92 | 43810 | 10525 | 40159 | 17946 | 67091 |
| Azathioprine | | | | | | |
| No | 85 | 43303 | 10028 | 40159 | 17946 | 67091 |
| Yes | 18 | 44199 | 11541 | 41050 | 31977 | 66374 |
| Cyclophosphamide | | | | | | |
| No | 102 | 43454 | 10304 | 40159 | 17946 | 67091 |
| Yes | 1 | 44010 | | 44010 | 44010 | 44010 |
| Methotrexate | | | | | | |
| No | 95 | 43282 | 10351 | 40159 | 17946 | 67091 |
| Yes | 8 | 45567 | 9358 | 41625 | 38887 | 66374 |
| Mycophenolate | | | | | | |
| No | 86 | 43809 | 10774 | 40362 | 17946 | 67091 |
| Yes | 17 | 41689 | 7035 | 39808 | 32566 | 51055 |
| Belimumab | | | | | | |
| No | 100 | 43369 | 10380 | 40159 | 17946 | 67091 |
| Yes | 3 | 46468 | 3779 | 44574 | 44010 | 50819 |
| Tacrolimus | | | | | | |
| No | 100 | 43709 | 10284 | 40362 | 17946 | 67091 |
| Yes | 3 | 35124 | 4361 | 32646 | 32566 | 40159 |
| Any of the above* | | | | | | |
| No | 4 | 40431 | 9947 | 38893 | 31013 | 52924 |
| Yes | 99 | 43582 | 10296 | 40159 | 17946 | 67091 |

*p-value=0.592 (Mann-Whitney U Test)

400 ANA-NEGATIVE SLE: RE-EVALUATION IN AN INTERNATIONAL INCEPTION COHORT

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10.1136/lupus-2017-000215.400

Background and aims The prevalence of ANA-negative SLE is reportedly 5%–20%. Cytoplasmic or mitotic cell indirect immunofluorescence (IIF) patterns are usually reported as ANA-negative. This study examined the prevalence of ANA-negativity (no intracellular IIF pattern) and pure cytoplasmic and/or mitotic IIF patterns (CMP) in the Systemic Lupus International Collaborating Clinics (SLICC) inception cohort and examined demographic, clinical and autoantibody associations.

Methods Three groups were examined 1) ANA-positive (presence of nuclear IIF pattern), 2) ANA-negative (no IIF pattern), and 3) pure CMP. ANA were detected by IIF on HEp-2000 substrate, SLE-related autoantibodies by laser bead immunoassay, and anti-dsDNA and anti-dense fine speckles 70 (DFS70) by chemiluminescence immunoassay.

Results 1137 patients were included; 89.9% were female. 92.3% were ANA-positive, 6.2% were ANA-negative, and 1.5% had a CMP. In the multivariate analysis (Tables 1 and 2), patients from Canada (Odds Ratio (OR) 2.07 [95% CI: 1.28, 3.36]) or with anti-DFS70 (OR 4.45 [95% CI: 1.37, 14.39]) were more likely to be ANA-negative or have CMP. Patients of Asian descent (OR 0.34 [95% CI: 0.13, 0.86]) or with anti-dsDNA (OR 0.53 [95% CI: 0.30, 0.94]), anti-SSA/

Ro60 (OR 0.51 [95% CI: 0.30, 0.87]), or anti-UI-RNP (OR 0.35 [95% CI: 0.17, 0.70]) were less likely to be ANA-negative or CMP.

Conclusions In newly diagnosed SLE, the prevalence of ANA-negativity was at the lower end (6.2%) of the range previously published and an additional 1.5% had a CMP pattern. The prevalence of true ANA-negativity will likely decrease as future guidelines are expected to recommend that non-nuclear patterns, such as CMP, are also reported.

401 HIGHEST FREQUENCY OF CLINIC VISITS AND HOSPITALIZATIONS IN SLE AMONG RHEUMATIC DISEASES: 8 YEAR CENSUS OF A TERTIARY RHEUMATOLOGY CENTRE

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10.1136/lupus-2017-000215.401

Background and aims We describe the frequency of clinic visits and hospitalizations among rheumatic diseases seen at a tertiary Rheumatology centre in Manila, Philippines

Methods The University of Santo Tomas (UST) Hospital is a tertiary care centre, with specialised subspecialty training in Rheumatology. This study is derived from the patient census of UST Hospital Rheumatology Clinics from 2008 to 2015.

Results Mean age of the total 15 730 rheumatic disease patients (10 808, 69% females; 13 607, 86.5% adults; 2123, 13.5% paediatrics) was 47.51±21.55 (range <1–103). Most common rheumatic conditions were osteoarthritis (OA) (2828, 17.98%), gout/pseudogout (2378, 15.12%) and systemic lupus

Abstract 400 Table 1 Baseline, univariate and multivariate associations of demographic and clinical profiles of ANA-positive (presence of nuclear IIF pattern), ANA-negative (no IIF pattern), and pure cytoplasmic/mitotic (CMP) groups

| | ANA+ Mean or % n=1049 | ANA- Mean or % n=71 | Pure CMP Mean or % n=17 | ANA- or Pure CMP Mean or % n=88 | Univariate model Odds ratio 95% CI | Primary multivariate model Odds ratio 95% CI | Secondary multivariate model Odds ratio 95% CI |
|--|--------------------------------|------------------------------|-------------------------------------|--|--|---|---|
| Demographics | | | | | | | |
| Age at diagnosis, yr | 34.7* | 40.9* | 35.8 | 39.9* | 1.03 (1.01, 1.04)* | 1.02 (1.00, 1.03)* | |
| Female | 89.7 | 90.1 | 100 | 92.0 | 1.33 (0.60, 2.95) | | |
| Post-secondary educ. | 66.7* | 76.1 [†] | 31.3 ^{‡*} | 67.5 | 1.04 (0.64, 1.67) | | |
| Ethnicity | | | | | | | |
| Asian | 23.2* | 4.2* | 11.8 | 5.7* | 0.20 (0.08, 0.50)* | 0.29 (0.11, 0.74)* | 0.34 (0.13, 0.86)* |
| Black | 16.2* | 7.0* | 5.9 | 6.8* | 0.38 (0.16, 0.88)* | | |
| Hispanic | 3.4 | 2.8 | 0 | 2.3 | 0.67 (0.16, 2.83) | | |
| White | 52.4 ^{†*} | 84.5 ^{‡*} | 76.5 [†] | 83.0 ^{‡*} | 4.42 (2.50, 7.81)* | | |
| Other ¹ | 4.8* | 1.4* | 5.9 | 2.3 | 0.46 (0.11, 1.93) | | |
| Country of Residence | | | | | | | |
| Canada | 29.3* | 42.3* | 47.1 | 43.2* | 1.83 (1.18, 2.85)* | | 2.07 (1.28, 3.36)* |
| USA | 26.7 | 28.2 | 23.5 | 27.3 | 1.03 (0.63, 1.68) | | |
| Europe | 28.3 | 25.4 | 23.5 | 25.0 | 0.84 (0.51, 1.39) | | |
| Asia | 15.7* | 4.2* | 5.9 | 4.5* | 0.26 (0.09, 0.71)* | | |
| Smoking | | | | | | | |
| Current smoker | 15.1 | 21.9 | 18.8 | 21.3 | 1.52 (0.86, 2.66) | | |
| Former smoker | 21.1 | 26.6 | 25.0 | 26.3 | 1.33 (0.79, 2.24) | | |
| Alcohol use, F: >10/wk; M: >15/wk | | | | | | | |
| | 1.5 | 1.5 | 0 | 1.2 | 0.84 (0.11, 6.40) | | |
| Hypertension, on meds or SBP > 140 or DBP >90 | | | | | | | |
| | 32.6* | 29.6 [†] | 58.8 ^{‡*} | 35.2 | 1.12 (0.71, 1.77) | | |
| Nephritis² at enrollment | | | | | | | |
| | 28.7 | 26.6 | 50.0 | 31.3 | 1.13 (0.69, 1.85) | | |
| # ACR criteria | | | | | | | |
| | 4.8 | 4.7 | 4.7 | 4.7 | 0.89 (0.71, 1.12) | | |
| SLEDAI-2Kscore | | | | | | | |
| Neurological | 5.4* | 4.1* | 5.4 | 4.3 | 0.96 (0.91, 1.00) | | |
| Mucocutaneous | 0.3 | 0.3 | 0.0 | 0.3 | 1.01 (0.88, 1.16) | | |
| Musculoskeletal | 1.1 | 1.0 | 1.3 | 1.1 | 0.99 (0.88, 1.11) | | |
| Renal | 0.8 | 0.7 | 1.3 | 0.8 | 1.01 (0.89, 1.16) | | |
| Serositis | 1.4 | 0.7 | 1.8 | 0.9 | 0.94 (0.86, 1.03) | | |
| Constitutional | 0.1 | 0.1 | 0.0 | 0.1 | 1.03 (0.66, 1.61) | | |
| Immunological | 0.0 | 0.0 | 0.0 | 0.0 | 0.30 (0.04, 2.17) | | |
| Hematological | 1.6* | 1.1* | 1.1 | 1.1* | 0.82 (0.71, 0.95)* | | |
| | 0.1 | 0.0 | 0.0 | 0.0* | 0.33 (0.11, 1.03) | | |
| Medications, % ever using | | | | | | | |
| Steroids | 80.6 | 74.6 | 82.4 | 76.1 | 0.77 (0.46, 1.28) | | |
| Antimalarials | 74.3 | 69.0 | 52.9 | 65.9 | 0.67 (0.42, 1.06) | | |
| Immunosuppressants | 43.6* | 23.9 ^{†*} | 58.8 [‡] | 30.7* | 0.57 (0.36, 0.92)* | | |
| Biologics | 0.48 | 2.8 | 5.9 | 3.4 | 7.32 (1.72, 31.15)* | 7.29 (1.57, 33.7)* | 12.63 (2.12, 75.26)* |

†, *, or in combination: values with the same superscript are significantly different from each other, i.e. †* is different from † and *, but † and * are not.

Abbreviations: ACR, American College of Rheumatology; ANA, anti-nuclear antibody; IIF, indirect immunofluorescence; SLE, systemic lupus erythematosus; SLEDAI, SLE disease activity index; wk, weeks; yr, years.

¹Native North American, Native Hawaiian or other Pacific Islanders, others

²Lupus nephritis was diagnosed by renal biopsy or fulfilling the ACR criteria for lupus nephritis

³The SLEDAI-2K organ system scores were calculated by grouping the following items: Neurological: seizures, psychosis, organic brain syndrome, visual disturbance, cranial nerve disorder, lupus headache, CVA; Mucocutaneous: vasculitis, rash, alopecia, mucosal ulcers; Musculoskeletal: arthritis, myositis; Renal: urinary casts, hematuria, proteinuria, pyuria; Serositis: pleurisy, pericarditis; Constitutional: fever; Immunological: low complement, increased DNA binding; Hematological: thrombocytopenia, leukopenia

erythematosus (SLE) (2152, 14%). There were a total 38 738 patient encounters including 34 267 outpatient clinic visits and 4471 hospitalizations. Of these, SLE consistently had highest frequency outpatient encounters (9534, 28%) averaging 1192/yr (range 1–16, median 7), and hospitalizations (1956, 43%) averaging 245/yr (range 1 to 9; median 4). Polyarthritides (4726, 14%) and OA (4346, 13%) had next most frequent outpatient visits; other connective tissue diseases (641, 14.37%) and gout/pseudogout (612, 13.72%) ranked next to

SLE in hospitalisation frequency (Figure 1). Mean age of OA patients (2258, 79.84% female) was 62.49+12.37 (20–101) years, gout/pseudogout (487, 20% female) 55.08+15.24 (18–94) years, and SLE (2004, 93% female) 30.7+14.3 SD (range 2–84) years.

Conclusions This 8 year patient census in a tertiary care Rheumatology training centre illustrates the burden of illness in SLE, with consistently the highest frequency of clinic visits and hospitalizations, affecting relatively young individuals.