randomized controlled trials examining the impact of hydroxychloroquine (HCQ) on SLE were men. Thus, our objective was to examine the disease activity of both women and men with SLE treated with HCQ. In a cross-sectional analysis, we hypothesized that men with SLE would have higher disease activity than women based on average SLE Disease Activity Index (SLEDAI) 2K and Damage Index (DI) scores.

Methods Patient information was collected from the Canadian Network for Improved Outcomes in SLE (CaNiOS) database. All patients had an SLE diagnosis confirmed using the American College of Rheumatology (ACR) criteria. Inclusion in this study required that patients be ≥18 years of age and be currently taking any prescribed dosage regimen of HCQ. Data for these analyses were collected at entry into CaNiOS. Descriptive characteristics included health habits, ethnicity, immunosuppressant medication usage and SLEDAI 2K 10 day and DI scores. Sex differences in SLEDAI 2K and DI scores were analyzed using multivariate regression analyses controlling for prednisone use, current age, age at SLE onset and disease duration.

Results A total of 499 patients (n=57 men, n=442 women) treated with HCQ were included (table 1). Men appeared to have slightly lower SLEDAI 2K scores and higher DI scores than women, and had slightly higher use of prednisone. However, regression analyses revealed no differences in SLEDAI 2K scores between sexes, yet current age was significant (β=0.228, p=0.021). DI scores were significantly associated with current age (β=0.349, p=0.001) and disease duration (β=0.170, p=0.002) but not sex.

Conclusions In contrast to our hypothesis, we found no sex differences in disease activity or damage index between men and women. Results of this study are limited by lack of control for HCQ dose and duration of use which will be addressed in future analyses. Future analyses will investigate potential sex differences in longitudinal changes in SLEDAI and DI scores in response to ≥3 months of HCQ therapy.

OF 132 STUDIES ON MOUSE SLE, 24% USE NZB VARIANTS, 36% MRL-lpr VARIANTS AND 39% USED VARIANTS/INDUCED ILLNESS IN CS7Bl/6j MICE. DEFINITION OF SLE REQUIRED PRESENCE OF ANTI-DNA ANTIBODY IN 47% OF STUDIES, ANA IN 10%, PROTEINURIA IN 39% AND IMMUNOHISTOCHEMISTRY (USUALLY RENAL) IN 57%. 15% OF PAPERS DEFINED DISEASE ONSET ≤8 WEEKS, 15% 8–16 WEEKS, AND 57% DID NOT INDICATE TIME OF DISEASE ONSET. THE FACT THAT THE PAPER SPOKE OF ANIMAL SLE WAS INDICATED IN THE TITLES OF 46% OF PAPERS.

Criteria used in 197 studies on human SLE, indicating criteria for diagnosis, inclusions, exclusions, serology, activity, and disease duration.

Conclusion Publications on SLE use a wide variety of definitions, inclusion, and exclusion criteria and often use the term SLE without specifying animal or human. Consensus definitions and stratification rules are necessary to obtain greater homogeneity in studies of SLE. (We will propose methods by which greater consensus can be obtained.)

Acknowledgements Supported by the Barbara Volcker Center and the Weill Cornell Medicine AOC program.

Background Although lupus spectrum illness contains at least four variants (antibody only, undifferentiated autoimmune disease, typical SLE, and overlap SLE), clinical, epidemiological, and basic science publications do not use distinct among these groups when they speak of SLE, thereby muddling interpretation of the results.

Methods We systematically reviewed clinical, epidemiological, and basic science publications from the last 5 years to determine definitions they used for SLE.

Results Of 366 papers on human SLE, 197 were suitable for analysis. Of these, 32 were basic/translation, 151 clinical trials and studies, and 14 epidemiological. Between 66% and 79% of papers specified or implied use of ACR criteria, of which 0%–16% also required presence of anti-DNA or anti-Sm antibody, 19%–29% of papers specified exclusion criteria, of which 10%–14% specifically excluded patients with overlap disease. Disease activity was considered in 14%–22% and stable disease was required in 7%–14% of papers. 0%–3% of papers considered disease duration (table 1).

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Background Sepsis is a serious infection that is often difficult to treat. We investigated if the risk of mortality in patients with systemic lupus erythematosus (SLE) hospitalized with sepsis varies among hospitals.

Methods We used the National Inpatient Sample (2002–2011) to obtain data on outcomes of adults age 18 to 64 with SLE who were admitted with a diagnosis of sepsis. We included 424 hospitals that had at least 5 hospitalizations of patients with SLE and sepsis. We abstracted data on demographic features, diagnoses, and mortality for these patients and for patients without SLE hospitalized with sepsis at the same set of hospitals. We used machine learning methods to derive the expected risk of in-hospital mortality for each patient, based on demographic features, insurance status, comorbidities, and diagnoses related to organ failure. We then computed the observed/expected ratio for in-hospital mortality separately for SLE and non-SLE patients by hospital. To further adjust for case-mix, the ratio of these two ratios (RR) was used to