THE EFFECT OF HYDROXYCHLOROQUINE ON ENGAGING PATIENTS AND PARENTS TO IMPROVE LUPUS SCIENCE & MEDICINE

significantly (p<0.001) after starting HCQ Immuno-Rheumatology Center

Funding Source(s):

Low socioeconomic status, as determined by the proxy variables of ethnicity and insurance type, is associated with greater mortality in SLE. To our knowledge, this is the first study that compares differences in treatment response in LN patients with low-SES in southern California. Our findings, which confirm the association of SES with long-term outcomes in SLE and LN, are in line with previous studies. More studies with greater power are warranted to validate these findings and improve healthcare outcomes.

Funding Source(s): None

THE EFFECT OF HYDROXYCHLOROQUINE ON COMPLEMENT STATUS IN PATIENTS WITH SYSTEMIC LUPUS ERYTHEMATOSUS; ANALYSIS OF JAPANESE REAL-WORLD PATIENTS WITH SLE IN A LARGE SINGLE CENTER OVER TWELVE-MONTH PERIOD

Yukihiko Ikeda*, Hiromichi Tamaki, Masato Okada. St Luke’s International Hospital Immuno-Rheumatology Center

Background Complement is a biomarker known to be correlated with disease activity of systemic lupus erythematosus (SLE). However, it is not well-known how complement level changes after starting hydroxychloroquine (HCQ), one of the key drugs for the treatment of SLE, in patients with SLE. The aim of this study is to investigate the effect of HCQ on complement levels over a 12 month period in a large single center cohort of SLE in Japan.

Methods We retrospectively collected the data of all the 244 lupus patients treated with HCQ from the electrical medical record at St Lukes International Hospital, Tokyo, Japan. We extracted the following parameters during the period between April 2008 and March 2018; baseline characteristics, complements levels (C3 and C4) at baseline1 month, 3 months, 6 months, 9 months, and 12 months after starting HCQ. Statistical analysis was performed using SPSS Statistics Version 21 (IBM Corp., Armonk, NY, USA). Mauchly’s sphericity test and analysis of variance with Greenhouse-Geisser correction was used.

Results Total 244 patients on HCQ were included but 130 patients were excluded due to lack of sufficient data. The mean age of these 114 patients was 40.2 years and 108 patients (94.7%) were female.

The level of C4(mg/dL) increased significantly (p<0.001) after starting HCQ. Especially, the level increased more dramatically from month 1 to month 3 compared to the other periods, and steadily increased event 6 months after initiating HCQ. In terms of C3, it showed the same trend. The number of flares of disease activity has been calculated.

Conclusions The level of complements increases after initiating HCQ therapy in real-world patients with SLE in Japan. The effect tends to emerge 3 months after starting HCQ. We will show the data between disease activity and the elevation of complements.

Funding Source(s): None

ENGAGING PATIENTS AND PARENTS TO IMPROVE MENTAL HEALTH FOR YOUTH WITH SYSTEMIC LUPUS ERYTHEMATOSUS

Andrea M Knight*, Olivia Purpus-Fawole, Michelle Reed, Lauren Faust, Tamar Rubinstein, Julia Harris, Aimee Hersh, Karen Onel, Erica Lawson, Kaveh Ardalan, Esi Morgan, Anne Paul, Judith Barlin, Paola Daly, Mitali Dave, Shannon Malloy, Shari Hume, Suzanne Schrondt, Laura Marrow, Angela Chapson, Donna Napoli, Michael Napoli, Miranda Moyer, Rachel Adamski, Vincent Delgaiho, Martha Rodriguez, Emily von Scheven, The Hospital for Sick Children, Toronto; New York University School of Medicine; The Children’s Hospital of Philadelphia; Philadelphia College of Osteopathic Medicine; Children’s Hospital at Montefiore, New York, NY, USA; University of Missouri-Kansas City, Childrens Mercy-Kansas City, Kansas City, MO, USA; University of Utah, Salt Lake City, UT, USA; Hospital for Special Surgery, Weill Cornell Medicine, New York, NY, USA; University of California San Francisco, San Francisco, CA, USA; Lurie Childrens Hospital of Chicago, Chicago, IL, USA; Cincinnati Childrens Hospital Medical Center, Cincinnati, OH, USA; Lupus Foundation of America, Washington, DC, USA; Clinical Outcome Assessments; Cure JM; Apheresis Foundation; Friends of CARRA; Riley Childrens Hospital at Indiana, Indianapolis, IN, USA

Background Mental health conditions are common in youth with systemic lupus erythematosus (SLE), yet intervention strategies are understudied. We used a patient-engaged approach to investigate the mental health needs of youth with SLE.

Methods An anonymous online survey examined beliefs and experiences with mental health for youth with SLE. Eligible youth ages 14–24 years had a diagnosis of SLE and reported specific treatment for the condition. Parents of youth 8–24 years meeting the above criteria were also eligible to participate. The survey was developed in collaboration with patient and parent advisors, the Childhood Arthritis and Rheumatology Research Alliance (CARRA), and the Patients, Advocates, and Rheumatology Teams Network for Research and Service (PARTNERS). Participants were recruited through the Lupus Foundation of America and CARRA clinics. We tabulated youth responses for i) self-reported prevalence of mental health problems, categorized into mutually exclusive clinician-diagnosed disorders and self-diagnosed symptoms, and ii) mean Likert ratings (0=low, 4=high) for the impact of disease related-factors on their mental health. We also compared