Lupus Nexus Landmark Study: A Prospective Registry and Biorepository

Introduction **SLE Cohorts & Inclusion Criteria** Study Requirements Systemic lupus erythematosus (SLE) is a debilitating New onset of SLE within 12 months of meeting classification autoimmune disease that disproportionally impacts women criteria or physician diagnosis of SLE. and minorities. To join the Lupus Landmark Study, you must: HOW IT WORKS New Onset The study will require about an average of nine visits The cause of lupus is unknown, and no single laboratory test Be diagnosed by a healthcare with your study doctor over five years. can definitively identify lupus. professional with Systemic Renal biopsy confirming LN diagnosis within 4 months of Lupus Ervthematosus (SLE) During those visits, we will collect: Although there are numerous contributing factors to the lag enrollment showing class III or IV+/-V, class V, or class II. Or, for in research discoveries and new treatments for lupus patients, limited access to standardized, high-quality those with clinically suspected and active LN with intention to treat Medical information through visits biological samples and natural history data provides a with a study doctor but unable to obtain a kidney biopsy, additional support from the Be able to attend significant roadblock to advance lupus research. Lupus Nephritis required study visits treating physician must be submitted for review, including, but not Active limited to, the amount or degree of worsening proteinuria, Objective Online patient surveys documented active urinary sediment, and serological biomarkers. Be age 18 or older at The purpose of the registry and biorepository is to provide a mechanism to store clinical data, linked biospecimens and the time of consent Biological samples, such as blood, molecular data to support the conduct of future research on Extra- Renal urine, stool and saliva A flare within 30 days preceding enrollment into the study. SLE, including lupus nephritis (LN). The study will be used to address research questions based on Lupus Flare Individual elements for specific flare definitions, such as Safety of three categories Estrogens in Systemic Lupus Erythematosus National Assessment Historical: Focuses on genetic drivers and antigenic **Enrollment at UMass** targets of SLE. (SELENA)- Systemic Lupus Erythematosus Disease Activity Cross-Sectional: Focuses on phenotypic and (SLEDAI) Flare Index, will be collected at time of visit. The study-wide target enrollment is 3,500 mechanistic heterogeneity in diverse SLE populations. Longitudinal: Focuses on the mechanistic correlates for 3. patients after 5 years. severity and outcome, including therapeutic responses. Prevalent Does not meet inclusion criteria for any of the other three cohorts At UMass Chan we plan to enroll 115 Cases at entry, and negative for flare at entry. participants over 5 years. **Importance of Participation** Our Statistics as of May 2024 This registry and biorepository is optimally positioned to aboratory Research Data drive science forward as an asset that can provide a game-Total: 10 Participants changing contribution to lupus patient- centered research. The study aims to: Biospecimens collected from participants may be analyzed on a variety of research platforms, which New Onset: 20 % may include the following: > Understand the underlying disease process. LN Active: 10% Cerebrospinal fluid > Understand lupus heterogeneity and link to clinical Extra- Renal Lupus Flare: 0 % Whole Genome Sequencing Circulating Biomarkers-Synovium Fluid/ phenotypes. Using serum, plasma, Genomic Analysis Prevalent Cases: 70 % Knee Biopsy Identify potential drug targets from analysis of Immunotyping urine, or saliva. Bone Marrow Biopsy biomarkers **Kidney Biopsy** UMass Chan MEDICAL SCHOOL Advancing LUPUS RESEARCH together ALLIANCE

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