

## Context

EMSI accesses about two million medical records annually for life sciences researchers, insurance carriers and law firms. Our teams draw on proprietary data to access records quickly and employ a custom-built technology platform to abstract data. Historically focused on the life insurance industry, EMSI has supported over 200 clinical and epidemiology studies for more than twenty years. EMSI also provides drug testing collections for the largest airlines and railroads in the US.

## The Case Study

This joint study by a pharma company, genomics registry and a national health foundation sought genetic causes associated with disease onset, progression, severity and response to treatments. Medical records data was used in the the analysis of longitudinal surveys with 5,000 participants. Medical records data was also incorporated into a registry for potential enrollment in other studies.

# Incorporating Medical Records Data in Drug Development

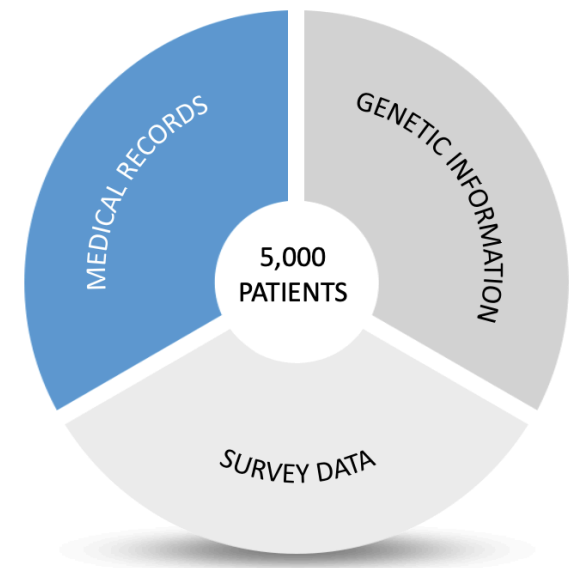
To understand the underlying disease biology

## Data Abstracted:

- Diagnosis: (SLE / Lupus nephritis / cerebritis / pneumonitis / pericarditis / photosensitive rash / malar or butterfly rash)
- Time of diagnosis: (year; exact date not needed)
- Serologies: (ANA, anti- dsDNA, anti-Sm)
- Complement: (C3 and C4)
- Date of hospitalizations
- Current medications

## At a Glance

- 5,000 providers engaged
- 8,300 contacts by EMSI
- 5,000 records retrieved
- Custom data abstraction



HEALTH DATA TO PROTECT  
AND IMPROVE LIVES