

Table 1. Codes and keywords used for screening

The ICD-9-CM codes included: 710.0 (SLE); 695.4 (lupus erythematosus, discoid); 710.8 (other specified diffuse diseases of connective tissue); 710.9 (unspecified diffuse connective tissue disease). In addition, although a specific ICD-9-CM code does not exist for antiphospholipid antibody syndrome (APS), 286.5 (hemorrhagic disorder due to circulating anticoagulants) was used at facilities that consistently applied it for APS.

SNOMED codes included: D1-10100 (SLE glomerulonephritis, general); D7-12381-6 (glomerulonephritis WHO Class I-VI); DO-23012 (discoid lupus); DO-71400 (drug-induced SLE). In laboratories, positive tests for the following were used for screening: ANA ($\geq 1:320$), anti-double stranded DNA, anti-SM, anti-RO/SSA, and antiphospholipid antibodies (anticardiolipin, and anti-beta2 glycoprotein I antibodies, and lupus anticoagulant).

Keyword search terms included lupus, SLE, connective tissue disease, antiphospholipid syndrome, and congenital heart block.

Supplementary Table 2. Clinical data elements, by organ system

MUCOCUTANEOUS	NEUROLOGIC	IMMUNOLOGIC
Malar (Butterfly) Rash	Neurologic Disorder	Immunologic Disorder
Discoid Rash	Seizures	Anti-dsDNA
Photosensitivity	Psychosis	Anti-Smith
Mucosal Ulcers	Cerebrovascular Accident (CVA/Stroke)	Antiphospholipid Antibodies
Bullous LE	Aseptic Meningitis	Lupus Anticoagulant, dRVVT
SCLE	Mononeuropathy (single/multiplex)	PTT with Abnormal Mixings
Cutaneous Vasculitis	CSF >5WBCs	Anticardiolipin Antibodies (IgG/IgM)
Panniculitis	Chorea	FP Syphilis
Livedo Reticularis	Acute Transverse Myelitis	Anti-Beta2 Glycoprotein (IgG/IgM)
Raynaud's	Cranial Neuropathy	C3
Alopecia	HEMATOLOGIC	C4
MUSCULOSKELETAL	Hematologic Disorder	Rheumatoid Factor
Arthritis	Hemolytic Anemia with reticulocytosis	Anti-RNP
Myositis	Haptoglobin below normal	Anti-Ro/SSA
Jaccoud's Arthropathy	Haptoglobin	Anti-La/SSB
PULMONARY/CARDIOVASCULAR	Hemocrit	OCULAR
Serositis	Reticulocytes	Cytoid Bodies
Pleuritis	Leukopenia	Retinal Vasculitis
Pericarditis	Lymphopenia	GENERAL MEDICAL HISTORY
Peritonitis	Thrombocytopenia	Smoking
Pneumonitis	Direct Coombs Test	Hospitalization due to SLE
Interstitial Lung Disease	ANTINUCLEAR ANTIBODY (ANA)	SLE dx during pregnancy
Pulmonary Hemorrhage	Positive Antinuclear Antibody test	No. of pregnancies
RENAL		No. of miscarriages or stillbirths
Renal Disorder		Preeclampsia w wk of gestation
Persistent Proteinuria		Toxemia
24 hour urine		Thrombosis DVT or PE
Protein/Creatinine Ratio		
Dipstick Protein		
Cellular Casts		
Hypoalbuminemia		
Renal Biopsy (WHO Class)		
Lupus Nephritis		
Hemodialysis (chronic)		
Renal Transplant		