

Subjects who **were diagnosed with SADs and had ANA test, 2001-2016**
(n = 52,934)

Subjects who had **≥2 diagnoses at lease 30 days apart within 365 days**
(n = 26,738)

Subjects who had **immunomarker measurements** for the first diagnosis
(n = 23,313)

Subjects who were diagnosed with **merely one of the following diseases – RA, SLE, and SS** (n = 11,923)

for
cluster
analysis

RA
n = 5,696

SLE
n = 2,686

SS
n = 3,541

Subjects had followed-up **for at least 3 years**
(n = 7,738)

for
clinical
implication
analysis

RA
n = 3,808

SLE
n = 1,887

SS
n = 2,043