

**Supplemental Table 1.** Sensitivity, specificity, positive predictive value (PPV), and negative predictive value (NPV) of the AVISE test and serologic markers.

Marker	Sensitivity	Specificity	PPV	NPV
AVISE	56.5 (34.5-76.8)	92.6 (85.3-97.0)	65.0 (45.5-80.5)	89.7 (84.5-93.3)
ANA	87.0 (66.4-97.2)	39.4 (29.4-50.0)	26.0 (21.9-30.6)	92.5 (80.7-97.3)
dsDNA	17.4 (5.0-38.8)	95.7 (89.5-98.8)	50 (21.3-78.3)	82.6 (79.6-85.2)
Low C3	9.5 (1.2-30.4)	97.1 (85.0-99.9)	66.7 (16.2-95.4)	64.2 (60.6-67.5)
Low C4	14.3 (3.05-36.3)	97.1 (85.1-99.9)	75.0 (25.0-96.4)	65.4 (61.1-69.4)
BC4d	13.0 (2.8-33.6)	95.7 (89.5-98.8)	42.9 (15.3-71.7)	81.8 (79.3-84.1)
EC4d	26.1 (10.2-48.4)	90.4 (82.6-95.5)	40.0 (20.9-62.3)	83.3 (79.5-86.5)

**Supplemental Table 2.** Using logistic regression, association between AVISE positivity and serologic markers with diagnosis of SLE at t = 2.

Marker	Odds ratio (95% CI)	p-value
AVISE	10.7 (2.56-44.86)	0.001
ANA	2.0 (0.3-13.2)	0.48
dsDNA	1.49 (0.21-10.7)	0.69
Low C3	3.93 (0.17-89.6)	0.39
Low C4	3.27 (0.20-52.6)	0.40