To the Editor:

The study by Ying, et al of ischemic stroke risk in systemic sclerosis (SSc) reported increased prevalence (15.3 vs 12.2 per thousand in the control cohort) and delineated a series of likely predisposing comorbidities. There is an additional consideration, also amenable to risk adjustment: such events are also characteristic of the effect of antiphospholipid antibodies (aPL). The reported prevalence of ischemic events in SSc is characteristic of that noted with aPL, a known association with connective tissue diseases, including SSc. Prevalence of 14–18% has been observed in population studies of SSc.

It may therefore appear surprising that the difference in stroke prevalence from that in controls was not greater than Ying, et al observed. However, aPL have also been found in/responsible for a significant portion (17–22%) of individuals under age 50 years (unaffected by SSc) with stroke. Among healthy individuals, the aPL rate is 5%; it is associated with a 5% annual risk increase of thrombosis, increasing their risk 5-fold.

Varying prevalence of aPL has been reported in SSc, dependent on sample source and specific antibodies assessed. Sanna, et al noted IgG and IgM anticardiolipin antibodies in 24% and 16%, respectively, compared with 5% and 3%, respectively, in controls, and apolipoprotein H (anti-β2-GPI) antibodies in a rheumatologic study, while Touré, et al reported 37 and 32% for the latter in a dermatology-derived sample.

It is apparent that aPL are not limited to SSc but are also present in otherwise apparently healthy individuals. However, they are especially common in those with SSc. Because there is effective intervention to prevent thromboembolic events in the presence of aPL and because such intervention requires a different approach (from thrombosis prevention in their absence), would it not be reasonable to pursue routine screening for their presence? Recommended screening is for IgG, IgM, and IgA antibodies to anticardiolipin and to anti-β2-GPI and perhaps antibodies to antiphosphatidylserine/prothrombin among individuals who are undergoing specific procedures (be they medical or aeronautic) and assess their post-procedure status.

BRUCE M. ROTHSCHILD, MD, Indiana University Health Ball Memorial Hospital, Muncie, Indiana, USA. Address correspondence to Dr. B.M. Rothschild, IU Health, 2401 W. University Ave., Muncie, Indiana 47303, USA. E-mail: spondylair@gmail.com

REFERENCES