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(Article begins on next page)

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Antiphospholipid Antibodies Negativization: time for testing for non-criteria aPL?

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This author takes responsibility for all aspects of the reliability and freedom from bias of the data presented and their discussed interpretation

Dear Editor,

while we read with interest the recent article by Comarmond and Colleagues¹ about cessation of oral anticoagulants in AntiPhospholipidSyndrome (APS), we do feel there are some points of the study still open for discussion.

Comarmond and Colleagues¹ describe 10 patients with prolonged disappearance of antiphospholipid antibodies (aPL) that were stopped anticoagulation therapy. After a median duration of follow-up of 19 months since the cessation of oral anticoagulant, one out of 10 patients relapsed developing pulmonary embolism.

Recent findings contribute to the hypothesis that persistent negative aPL profile is not an indication to interrupt oral anticoagulant therapy.

Medina and colleagues², investigated aPL negativization in a retrospective study in a large cohort of 70 patients with primary APS. Patients were tested for the presence of aPL, including anti-annexin A5 antibodies, and, when found negative, patients were re-tested after 5 years to confirm the disappearance of autoantibodies. Persistent negativization of aPL was detected in 24/70 patients. Since aPL disappearance and after 60 months of follow up, 11 out of 24 patients (45.8%) presented recurrence of thrombosis despite the anticoagulant treatment.

Laboratory criteria for APS include the assays test for the presence of lupus anticoagulant, anticardiolipin antibodies (aCL) and anti- β 2GPI antibodies (anti- β 2GPI)³. However, in patients with persistent disappearance of aPL, a second level screening of non-criteria aPL should be strongly encouraged before stopping the anticoagulant treatment.

For instance, the use of IgA isotypes for both aCL and anti- β 2GPI are not a part of the routine diagnostic algorithm⁴. However, some data suggested a role of isolated positivity for IgA anti- β 2GPI with clinical APS symptoms might help to identify additional patients who are at risk of developing thrombotic events, recommending these tests when other aPL are negative⁴.

Furthermore, among the so-called extra-criteria aPL tests, anti-phosphatidylserine/prothrombin antibodies and anti- β 2GPI glycoprotein-I domain1 antibodies have been proposed to potentially improve the diagnostic accuracy, especially when assessing the risk for both thrombosis and pregnancy morbidities in patients suspected of APS. Other antibody specificities, such as anti-annexin A5 and antivimentin antibodies, might be considered for thrombotic risk assessment only in selected patients, particularly when other aPL tests are negative and in the presence of clinical APS signs and/or symptoms. Indeed, further investigations are needed to assess their role in the diagnostic algorithm for APS⁵. Moreover, it would be of great interest to establish an accurate definition of disappearance of aPL, since it might be important to specify for how long and how many negative tests must be considered to define a patient as negativized.

Persistent aPL disappearance is a hot topic in the field of APS and further prospective studies are needed to assess successful therapeutic strategies. However, a second level screening in patients with aPL negativization is highly suggested before interrupting oral anticoagulation. Besides, when stopping anticoagulation, a physician should consider that aPL are not the only thrombotic risk factor to develop a thrombotic event in a patient. A thorough cardiovascular risk factor evaluation should always be considered and recommended before stopping anticoagulation treatment.

References

1. Comarmond C, Jengo P, Marie I, et al. Cessation of oral anticoagulants in antiphospholipid syndrome. 2017; 1–6.
2. Medina G, Briones-García E, Cruz-Domínguez MP, et al. Antiphospholipid antibodies disappearance in primary antiphospholipid syndrome: Thrombosis recurrence. *Autoimmun Rev* 2017; 16: 352–354.
3. Miyakis S, Lockshin MD, Atsumi T, et al. International consensus statement on an update of the classification criteria for definite antiphospholipid syndrome (APS). *J Thromb Haemost* 2006; 4: 295–306.
4. Bertolaccini ML, Amengual O, Andreoli L, et al. 14th International Congress on Antiphospholipid Antibodies Task Force. Report on antiphospholipid syndrome laboratory diagnostics and trends. *Autoimmun Rev* 2014; 13: 917–930.
5. Sciascia S, Radin M, Bazzan M, et al. Novel diagnostic and therapeutic frontiers in thrombotic antiphospholipid syndrome. *Intern Emerg Med* 2017; 12: 1–7.