The Investigation of Anti-platelet Antibodies of Anti-lymphocyte Sera by the Inhibition Platelet Aggregation Phenomenon

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In a previous study, we have shown that sera with anti-platelet antibodies from thrombocytopenic patients or those having received multiple blood transfusions – females alloimmunized by pregnancy – are able to induce inhibition of platelet aggregation [2].

The present investigation is designed to study the activity of anti-human anti-lymphocyte horse and rabbit sera by the inhibition platelet aggregation phenomenon.

We studied 2 anti-lymphocyte horse sera and 4 anti-lymphocyte rabbit sera. All these sera tested proved to have an inhibitory effect on platelet aggregation by extrinsic ADP.

The anti-lymphocyte sera were obtained by immunization with peripheral human lymphocytes. A quantitative evaluation of the anti-platelet antibodies was established.

The presence of the anti-platelet antibodies in the anti-lymphocyte sera may be explained by the common antigens belonging to lymphocytes and platelets [1] or by the presence of platelet antigens in the lymphocyte suspension, insufficiently purified.

We consider our test to be very sensitive and simple for the investigation of anti-platelet antibodies and, consequently, for platelet antigen research.

References

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