



Commentary on "Haemostatic state in children with type 1 diabetes"

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In patients with type 1 diabetes mellitus (T1DM), cardiovascular complications are the solid causes of morbidity. It is thought that there might be alterations of the coagulation system like fibrin clot structure, changes in procoagulant molecules concentration and reduction of the fibrinolytic system activity in patients with T1DM. However, the informations on coagulation disorders and altered fibrinolysis are lacking in children with T1DM. The associations between hyperfibrinogenemia and coronary artery disease or the development and activation of the atheromatous plaque has been reported. A clear association has been observed between the increase in plasminogen activator inhibitor-1 plasma levels and prothrombotic diseases such as hypertension, obesity, insulin resistance, and diabetes. Willebrand factor antigen has been proposed as a prognostic marker of metabolic and cardiovascular diseases, such as diabetes, myocardial infarction or stroke.

This manuscript presents significantly higher levels of fibrinogen, plasminogen activator inhibitor-1 and von Willebrand factor antigen in children with T1DM than controls.¹⁾ These results may suggest a prothrombotic state in children with T1DM. However, there was no difference of serum levels of fibrinogen, plasminogen activator inhibitor-1, and Willebrand factor antigen according to degree of glycemic control. In spite of some limitations including cross-sectional design and small sample size, this study has very important academic value in terms of showing the results in children with T1DM.

Conflict of interest

No potential conflict of interest relevant to this article was reported.

Reference

1. Aleman MN, Díaz EI, Luciardi MC, Mariani AC, Bazán MC, Abregu AV. Hemostatic state of children with type 1 diabetes. *Ann Pediatr Endocrinol Metab* 2021;26:99-104.

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