Decreased clot retraction rate in asthma

November 7 2016

(HealthDay)—Clot retraction rate (CRR) and fibrinolysis rate (FR) are reduced in steroid-naive asthma, according to a study published online Oct. 14 in Allergy.
Maria M. Tomasiak-Lozowska, M.D., Ph.D., from the Medical University of Bialystok in Poland, and colleagues assessed CRR, FR, clot density (CD), plasma levels of plasminogen activator inhibitor (PAI-1) and factor XIII (FXIII), nitric oxide (NO) in exhaled breath (FE\textsubscript{NO}), spirometry (forced expiratory volume in one second [FEV\textsubscript{1}]), and eosinophil count (EOS) in allergic, steroid-naive asthma patients (36 patients) and healthy controls (34 patients).

The researchers found that, compared with controls, patients with asthma had significant reductions in CRR, FR, and FEV\textsubscript{1}, and increases in FE\textsubscript{NO}, EOS, PAI-1, FXIII, and CD (all P \textsubscript{NO}, and EOS, and a positive correlation with FEV\textsubscript{1}. A positive correlation was seen for FXIII with CD. A negative correlation was seen for CRR with FE\textsubscript{NO} and a positive correlation with FEV\textsubscript{1} (all P "These novel findings suggest that asthma itself is associated with decreased CRR and reduced fibrinolytic potential resulting from alterations in clot architecture and elevated levels of plasma FXIII and PAI-1," the authors write.

**More information:** Full Text (subscription or payment may be required)

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Citation: Decreased clot retraction rate in asthma (2016, November 7) retrieved 6 August 2023 from https://medicalxpress.com/news/2016-11-decreased-clot-retraction-asthma.html

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