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Center for research of diabetes, metabolism and nutrition

Center for diagnosis and treatment of hyperlipoproteinemia

<https://www.lf3.cuni.cz/3LF-654.html>

Topic title

New risk factors of atherosclerosis associated cardiovascular diseases

Description of scientific activity

The scientific activity is focused on the non-traditional risk factors of atherosclerosis – iron, inflammation, oncological therapy.

Selected publications

Kraml PJ, Klein RL, Huang Y, Nareika A, Lopes-Virella MF: Iron Loading Enhances LDL Uptake via MSR-I Scavenger Receptor in THP-I Macrophages. *Metabolism* 2005; 54:453-459 doi: 10.1016/j.metabol.2004.10.012.

Šiklová M, Koc M, Rossmeislová L, Kraml P: Serum oxLDL-?2GPI complex reflects metabolit syndrome and inflammation in adipose tissue in obese. *Int J Obes (Lond)* 2017; doi 201710.1038/ijo.2017.260

Riško P, Pláteník J, Buchal R, Potočková J, Kraml PJ: Long-term donors versus non-donor men: Iron metabolism and the atherosclerosis process. *Atherosclerosis* 2018; 272: 14-20. doi: 10.1016/j.atherosclerosis.2018.03.009. Epub 2018 Mar 3. PMID: 29544084.

Cepelova M, Kruseova J, Luks A, Capek V, Cepela P, Potockova J, Kraml P. Accelerated atherosclerosis, hyperlipoproteinemia and insulin resistance in long-term survivors of Hodgkin lymphoma during childhood and adolescence. *Neoplasma*. 2019 Jul 12;66(6):978-987. doi: 10.4149/neo_2019_190115N45.

Selected or ongoing grants/clinical studies

2012 – 2015 IGA MZ ČR NT13671-4/2012: Reactive iron in monocytes and its role in the process of atherogenesis

2015 – 2018 AZV MZČR 15-30494A: Incidence of hyperlipoproteinemia in long-term survivors of Hodgkin lymphoma during childhood and adolescence.

2014 – 2019 Research program PRVOUK 031: Ferritin as a predictor of the cardiovascular and oncological diseases

PhD Students

Number of PhD students currently studying : 1

Number of defended students with year of defence: 2 (2011, 2019)