



STÁTNÍ ZDRAVOTNÍ ÚSTAV

## Vyšší omega-3 index je spojený s lepší kontrolou astmatu

Vyšší hladina omega-3 mastných kyselin v krvi může být spojena s lepší kontrolou astmatu a nižšími dávkami léků, naznačuje nová studie. Nález studie ukazuje, že při hodnotách omega 3 indexu 8,0 a více se může zlepšit terapeutický benefit u astmatiků. Pokud máte zájem si prostudovat detaily, přidáváme odkaz na zprávu.

<https://www.nutraingredients-latam.com/Article/2020/01/13/Higher-omega-3-index-linked-to-better-asthma-control-Study>

Zdroj:

Nutrients, 2020, 12(1), 74 doi: 10.3390/nu12010074 "Higher Omega-3 index is associated with better asthma control and lower medication dose: A cross-sectional study. <https://www.mdpi.com/2072-6643/12/1/74>

Asthma is a chronic inflammatory airway disease, associated with systemic inflammation. Omega-3 polyunsaturated fatty acids (n-3 PUFA) have established anti-inflammatory effects, thus having potential as an adjunct therapy in asthma. This study aimed to compare erythrocyte n-3 PUFA in adults with (n = 255) and without (n = 137) asthma and determine the relationship between erythrocyte n-3 PUFA and clinical asthma outcomes. Subjects had blood collected, lung function measured and Juniper Asthma Control Questionnaire (ACQ) score calculated. Fatty acids were measured in erythrocyte membranes by gas chromatography, and the omega-3 index (O3I) was calculated (% eicosapentaenoic acid + % docosahexaenoic acid). O3I was similar in subjects with and without asthma (p = 0.089). A higher O3I was observed in subjects with controlled or partially controlled asthma (ACQ < 1.5) compared to subjects with uncontrolled asthma (ACQ ≥ 1.5) (6.0% (5.4-7.2) versus 5.6% (4.6-6.4) p = 0.033). Subjects with a high O3I (≥8%) had a lower maintenance dose of inhaled corticosteroids (ICS) compared to those with a low O3I (<8%) (1000 00-1000) versus 1000 00-2000) p = 0.019). This study demonstrates that a higher O3I is associated with better asthma control and with lower ICS dose, suggesting that a higher erythrocyte n-3 PUFA level may have a role in asthma management.

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