

ověřování techniky klidového dýchání spočívá v multifaktorové analýze vztahu mezi hodnotou FE_{NO} a charakteristikami nemocných včetně posouzení vlivu farmakoterapie. Bude porovnána diagnostická přesnost a vliv stupně kontroly nad astmatem na výsledek vyšetření standardizovaným postupem a technikou klidového dýchání.

5. Literatura

- 1) National Institutes of Health. Revised GINA Guidelines 2006: Global Initiative for Asthma. Bethesda, MD: National Institutes of Health, National Heart, Lung and Blood Institute; 2006. NIH Publication No. 02-3659
- 2) Busse WW, Lemanske RF Jr. Asthma. *N Engl J Med* 2001, 344:350-62
- 3) Patil SU, Long AA. The usefulness of biomarkers of airway inflammation in managing asthma. *Allergy Asthma Proc.* 2010;31:259-68)
- 4) Donnelly LE. Exhaled breath condensate: nitric oxide-related compounds. In: Horvath. I, de Jongste JC. editors, Exhaled Biomarkers. European Respiratory monograph 2010, 49: 207-216
- 5) Yates DH, Kharitonov SA, Thomas PS. Endogenous nitric oxide is decreased in asthmatic patients by an inhibitor of inducible nitric oxide synthase. *Am J Respir Crit Care Med* 1996, 154: 247-50
- 6) Törnberg DC, Marteus H, Schedin U, Alving K, Lundberg JO, Weitzberg E. Nasal and oral contribution to inhaled and exhaled nitric oxide: a study in tracheotomized patients. *Eur Respir J.* 2002;19:859-64
- 7) Lundberg JO, Weitzberg E, Cole JA, et al. Nitrate, bacteria and human health. *Nat Rev Microbiol* 2004; 2:593–602
- 8) Alving K, Malinovshi A. Basic aspects of exhaled nitric oxide. In: Horvath. I, de Jongste JC. editors, Exhaled Biomarkers. European Respiratory monograph 2010, 49: 1-31
- 9) Puckett JL, Taylor RW, Leu SY, Guijon OL, Aledia AS, Galant SP, George SC. Clinical patterns in asthma based on proximal and distal airway nitric oxide categories. *Respir Res* 2010;11:47
- 10) Chládková J, Havlínová Z, Chyba T, Krčmová I, Chládek J. Analysis of single-breath profiles of exhaled nitric oxide in children with allergy and asthma: guideline-derived plateau concentrations compared to results of automatic evaluation by two analyzers. *J Asthma.* 2008;45:820-826

- 11) ATS/ERS Recommendations for standardized procedures for the online and offline measurement of exhaled lower respiratory nitric oxide and nasal nitric oxide. *Am J Resp Crit Care Med* 2005; 171:912-930
- 12) Buchvald F, Baraldi E, Carraro S, Gaston B, De Jongste J, Pijnenburg MW, Silkoff PE, Bisgaard H. Measurements of exhaled nitric oxide in healthy subjects age 4 to 17 years. *J Allergy Clin Immunol.* 2005;115:1130-6
- 13) George SC, Hogman M, Permutt S, Silkoff PE. Modeling pulmonary nitric oxide exchange. *J Appl Physiol.* 2004;96:831-9
- 14) Pietropaoli AP, Perillo IB, Torres A, Perkins PT, Frasier LM, Utell MJ, Frampton MW, Hyde RW. Simultaneous measurement of nitric oxide production by conducting and alveolar airways of humus. *J Appl Physiol.* 1999;87:1532-2
- 15) Tsoukias NM and George SC. A two-compartment model of pulmonary nitric oxide exchange dynamics. *J Appl Physiol* 1998; 85: 653–666
- 16) Högman M, Holmkvist T, Wegener T, Emtner M, Andersson M, Hedenström H, Meriläinen P. Extended NO analysis applied to patients with COPD, allergic asthma and allergic rhinitis. *Respir Med.* 2002;96:24-30
- 17) Chládková J, Havlínová Z, Krčmová I, Chyba T, Chládek J. Metodická hlediska vyšetření vydechovaného oxidu dusnatého u dětí. *Alergie* 2008, 4: 262-268 .