

# European Respiratory Society Annual Congress 2012

**Abstract Number:** 560

**Publication Number:** P2175

**Abstract Group:** 5.1. Airway Pharmacology and Treatment

**Keyword 1:** Chronic disease **Keyword 2:** Rhinitis **Keyword 3:** Treatments

**Title:** Erdosteine – A new drug in the treatment of chronic rhinosinusitis

Prof. Dr Ivo 4434 Stárek stareki@fnol.cz MD <sup>1</sup>, Dr. Jirí 4435 Hoza jihaz@post.cz <sup>1</sup>, Dr. Petr 4436 Schalek schalek@hotmail.com <sup>2</sup> and Dr. Renata 4437 Kellnerová kellnerova@medicomint.cz <sup>3</sup>. <sup>1</sup> ORL Clinic, Faculty Hospital, Olomouc, Czech Republic, 779 00 ; <sup>2</sup> ORL CLinic, Faculty Hospital, Praha, Czech Republic, 10034 and <sup>3</sup> Medicom International, Medicom International, Brno, Czech Republic, 63500 .

**Body:** Introduction. Antiinflammatory macrolide antibiotics proved efficient in chronic rhinosinusitis (CRS). Since this medication is associated with potential side effects and the danger of development of resistant bacteria, alternative drugs are being sought. Objectives. Another drug exerting similar, cytokine-mediated antiinflammatory response is Erdosteine. However, it has not been tested in this diagnosis yet. In a prospective post-authorisation study we therefore assessed the efficacy of Erdosteine in patients with CRS. Methods. 60 patients with CRS were enrolled, with 33 and 27 of them being treated by Erdosteine 2x300 mg without (group I) and with topical steroid (group II), respectively, for 3 months. Outcome measures included Sinonasal Outcome Test (SNOT-22) and nasal endoscopic score (Levine-May). Results. The pre- and posttreatment SNOT-22 score in group I was 36 and 19, in group II 39 and 27, respectively. The nasal endoscopic score in group I was 2.55 and 1.29, in group II 2.02 and 1.30. In both groups the differences showed statistical significance. Conclusion. The results of our pilot study suggest Erdosteine treatment efficacy in CRS. Additional in vitro and clinical studies are required to determine its precise action.