

IN A NUTSHELL

Die Wissensplattform für Hausärztinnen und Hausärzte

Literaturnachweis

Abramson MJ, Bailey MJ, Couper FJ, et al. Are Asthma Medications and Management Related to Deaths from Asthma? *Am J Respir Crit Care Med.* 2001;163(1):12-18. doi:10.1164/ajrccm.163.1.9910042.

Abramson MJ, Puy RM, Weiner JM. Injection allergen immunotherapy for asthma. In: Abramson MJ, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2010. doi:10.1002/14651858.CD001186.pub2.

Adams NP, Bestall JC, Malouf R, Lasserson TJ, Jones P. Beclomethasone versus placebo for chronic asthma. In: Adams NP, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2005. doi:10.1002/14651858.CD002738.pub2.

Adeniyi FB, Young T. Weight loss interventions for chronic asthma. In: Adeniyi FB, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2012. doi:10.1002/14651858.CD009339.pub2.

Adir Y, Bove AA. Can asthmatic subjects dive? *Eur Respir Rev.* 2016;25(140):214-220. doi:10.1183/16000617.0006-2016.

Ahmedani BK, Peterson EL, Wells KE, Williams LK. Examining the relationship between depression and asthma exacerbations in a prospective follow-up study. *Psychosom Med.* 2013;75(3):305-310. doi:10.1097/PSY.0b013e3182864ee3.

Al-Samri MT, Benedetti A, Préfontaine D, et al. Variability of sputum inflammatory cells in asthmatic patients receiving corticosteroid therapy: A prospective study using multiple samples. *J Allergy Clin Immunol.* 2010;125(5):1161-1163.e4. doi:10.1016/j.jaci.2010.02.005.

Alvarez G, Schulzer M, Jung D. A systematic review of risk factors associated with near-fatal and fatal asthma. *Can Respir.* 2005. <http://www.hindawi.com/journals/crj/2005/837645/abs/>. Accessed November 9, 2016.

Amelink M, Groot J de, Nijs S de, Lutter R. Severe adult-onset asthma: A distinct phenotype. *Journal of Allergy and.* <http://www.sciencedirect.com/science/article/pii/S0091674913006994>. Published 2013. Accessed October 20, 2016.

Amirav I, Newhouse MT. Deposition of small particles in the developing lung. *Paediatr Respir Rev.* 2012;13(2):73-78. doi:10.1016/j.prrv.2011.05.006.

Avner DB, Perzanowski MS, Platts-Mills TAE, Woodfolk JA. Evaluation of different techniques for washing cats: Quantitation of allergen removed from the cat and the effect on airborne Fel d 1. *J Allergy Clin Immunol*. 1997;100(3):307-312. doi:10.1016/S0091-6749(97)70242-2.

Baraldo S, Turato G, Bazzan E, et al. Non-eosinophilic asthma in children: relation with airway remodeling. *Eur Respir J Off J Eur Soc Clin Respir Physiol*. 2011;38(3):575-583. doi:10.1183/09031936.00168210.

Barlow J, Wright C, Sheasby J, Turner A. Self-management approaches for people with chronic conditions: a review. *Patient Educ*. 2002. <http://www.sciencedirect.com/science/article/pii/S0738399102000320>. Accessed October 26, 2016.

Bateman E, Boushey H, Bousquet J. Can guideline-defined asthma control be achieved? The Gaining Optimal Asthma Control study. *Am J*. 2004. <http://www.atsjournals.org/doi/abs/10.1164/rccm.200401-033OC>. Accessed October 20, 2016.

Bateman E, Karpel J, Casale T, Wenzel S, Banerji D. Ciclesonide reduces the need for oral steroid use in adult patients with severe, persistent asthma. *Chest*. 2006;129(5):1176-1187. doi:10.1378/chest.129.5.1176.

Bateman ED, Boushey HA, Bousquet J, et al. Can Guideline-defined Asthma Control Be Achieved? <http://dx.doi.org/101164/rccm200401-033OC>. 2012.

Bateman ED, Harrison TW, Quirce S, et al. Overall asthma control achieved with budesonide/formoterol maintenance and reliever therapy for patients on different treatment steps. *Respir Res*. 2011;12(1):38. doi:10.1186/1465-9921-12-38.

Baur X, Sigsgaard T, Aasen TB, et al. Guidelines for the management of work-related asthma. *Eur Respir J*. 2012;39(3):529-545. doi:10.1183/09031936.00096111.

Bel EH, Wenzel SE, Thompson PJ, et al. Oral glucocorticoid-sparing effect of mepolizumab in eosinophilic asthma. *Nejm*. 2014;371(13):1189-1197. doi:10.1056/NEJMoa1403291.

Belda J, Giner J, Casan P, Sanchis J. Mild Exacerbations and Eosinophilic Inflammation in Patients With Stable, Well-Controlled Asthma After 1 Year of Follow-up. *Chest*. 2001;119(4):1011-1017. doi:10.1378/chest.119.4.1011.

Berges-Gimeno MP, Simon RA, Stevenson DD. Long-term treatment with aspirin desensitization in asthmatic patients with aspirin-exacerbated respiratory disease. *J Allergy Clin Immunol*. 2003;111(1):180-186. doi:10.1067/mai.2003.7.

Bijl-Hofland ID, Cloosterman SG, Folgering HT, Akkermans RP, van Schayck CP. Relation of the perception of airway obstruction to the severity of asthma. *Thorax*. 1999;54(1):15-19. doi:10.1136/thx.54.1.15.

Bock SA, Muñoz-Furlong A, Sampson HA, et al. Further fatalities caused by anaphylactic reactions to food, 2001-2006. *J Allergy Clin Immunol*. 2007;119(4):1016-1018. doi:10.1016/j.jaci.2006.12.622.

Bossley CJ, Fleming L, Gupta A, et al. Pediatric severe asthma is characterized by eosinophilia and remodeling without T(H)2 cytokines. *J Allergy Clin Immunol*. 2012;129(4):974-82.e13. doi:10.1016/j.jaci.2012.01.059.

Boulet L, O'Byrne P. Asthma and exercise-induced bronchoconstriction in athletes. *N Engl J Med*. 2015. <http://www.nejm.org/doi/full/10.1056/NEJMra1407552>. Accessed October 20, 2016.

Boulet L-P, Franssen E, Schaub B, et al. Influence of obesity on response to fluticasone with or without salmeterol in moderate asthma. *Respir Med*. 2007;101(11):2240-2247. doi:10.1016/j.rmed.2007.06.031.

Boulet L-P, Turcotte H, Martin J, Poirier P. Effect of bariatric surgery on airway response and lung function in obese subjects with asthma. *Respir Med*. 2012;106(5):651-660. doi:10.1016/j.rmed.2011.12.012.

Boulet L-P. Asthma and obesity. *Clin Exp Allergy*. 2013;43(1):8-21. doi:10.1111/j.1365-2222.2012.04040.x.

Bousquet J, Khaltaev N, Cruz AA, et al. Allergic Rhinitis and its Impact on Asthma (ARIA) 2008*. *Allergy*. 2008;63(s86):8-160. doi:10.1111/j.1398-9995.2007.01620.x.

Bousquet J, Schünemann HJ, Samolinski B, et al. Allergic Rhinitis and its Impact on Asthma (ARIA): Achievements in 10 years and future needs. *J Allergy Clin Immunol*. 2012;130(5):1049-1062. doi:10.1016/j.jaci.2012.07.053.

Brand PLP, Baraldi E, Bisgaard H, et al. Definition, assessment and treatment of wheezing disorders in preschool children: An evidence-based approach. *Eur Respir J*. 2008;32(4):1096-1110. doi:10.1183/09031936.00002108.

Brand PLP, Caudri D, Eber E, et al. Classification and pharmacological treatment of preschool wheezing: Changes since 2008. In: *European Respiratory Journal*. Vol 43. ; 2014:1172-1177. doi:10.1183/09031936.00199913.

Brand PLP, Mäkelä MJ, Szefler SJ, Frischer T, Price D. Monitoring asthma in childhood: symptoms, exacerbations and quality of life. *Eur Respir Rev*. 2015;24(136):187-193. doi:10.1183/16000617.00003614.

British Thoracic Society guidelines on respiratory aspects of fitness for diving. *Thorax*. 2003;58(1):3-13. doi:10.1136/thorax.58.1.3.

Brozek JL, Bousquet J, Baena-Cagnani CE, et al. Allergic Rhinitis and its Impact on Asthma (ARIA) guidelines: 2010 Revision. *J Allergy Clin Immunol*. 2010;126:466-476. doi:10.1016/j.jaci.2010.06.047.

Brusselle G, Maes T, Bracke K. Eosinophils in the spotlight: eosinophilic airway inflammation in nonallergic asthma. *Nat Med*. 2013. <http://www.nature.com/nm/journal/v19/n8/full/nm.3300.html>. Accessed October 20, 2016.

Burks AW, Tang M, Sicherer S, et al. ICON: Food allergy. *J Allergy Clin Immunol*. 2012;129(4):906-920. doi:10.1016/j.jaci.2012.02.001.

Bush A, Saglani S. Management of severe asthma in children. *Lancet*. 2010;814-825. http://www.medicos.sa.cr/web/documentos/EMC_2013/Presentaciones_Seminario_de_Vias_Respiratorias/Management_of_severe_asthma_in_children.pdf. Accessed December 6, 2016.

Busse WW, Lemanske RF, Gern JE. Role of viral respiratory infections in asthma and asthma exacerbations. *Lancet*. 2010;376(9743):826-834. doi:10.1016/S0140-6736(10)61380-3.

Busse WW, Pedersen S, Pauwels RA, et al. The Inhaled Steroid Treatment As Regular Therapy in Early Asthma (START) study 5-year follow-up: Effectiveness of early intervention with budesonide in mild persistent asthma. *J Allergy Clin Immunol*. 2008;121(5):1167-1174. doi:10.1016/j.jaci.2008.02.029.

Carlsen KH, Anderson SD, Bjermer L, et al. Exercise-induced asthma, respiratory and allergic disorders in elite athletes: epidemiology, mechanisms and diagnosis: part I of the report from the Joint Task Force of the European Respiratory Society (ERS) and the European Academy of Allergy and Clinica. *Allergy*. 2008;63(4):387-403. doi:10.1111/j.1398-9995.2008.01662.x.

Cates C. Inhaled corticosteroids in COPD: quantifying risks and benefits. *Thorax*. 2013. <http://thorax.bmj.com/content/68/6/499.short>. Accessed October 20, 2016.

Cates CJ, Karner C. Combination formoterol and budesonide as maintenance and reliever therapy versus current best practice (including inhaled steroid maintenance), for chronic asthma in adults and children. In: Cates CJ, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2013. doi:10.1002/14651858.CD007313.pub3.

Cates CJ, Rowe BH. Vaccines for preventing influenza in people with asthma. In: Cates CJ, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2013. doi:10.1002/14651858.CD000364.pub4.

Chalmers G, Macleod K, Little S, Thomson L. Influence of cigarette smoking on inhaled corticosteroid treatment in mild asthma. *Thorax*. 2002. <http://thorax.bmj.com/content/57/3/226.short>. Accessed October 20, 2016.

Chan WW, Chiou E, Obstein KL, et al. The Efficacy of Proton Pump Inhibitors for the Treatment of Asthma in Adults. *Arch Intern Med*. 2011;171(7):1002-1014. doi:10.1001/archinternmed.2011.116.

Chang TS, Lemanske RF, Guilbert TW, et al. Evaluation of the modified asthma predictive index in high-risk preschool children. *J Allergy Clin Immunol Pract*. 2013;1(2):152-156. doi:10.1016/j.jaip.2012.10.008.

Chaudhuri R, Livingston E, McMahon A. Cigarette smoking impairs the therapeutic response to oral corticosteroids in chronic asthma. *Am J*. 2003. <http://www.atsjournals.org/doi/abs/10.1164/rccm.200304-503OC>. Accessed October 26, 2016.

Chauhan BF, Ducharme FM. Addition to inhaled corticosteroids of long-acting beta₂-agonists versus anti-leukotrienes for chronic asthma. In: Ducharme FM, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2014. doi:10.1002/14651858.CD003137.pub5.

Chauhan BF, Ducharme FM. Anti-leukotriene agents compared to inhaled corticosteroids in the management of recurrent and/or chronic asthma in adults and children. In: Ducharme FM, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2012. doi:10.1002/14651858.CD002314.pub3.

Chinn S, Jarvis D, Luczynska CM, et al. An increase in bronchial responsiveness is associated with continuing or restarting smoking. *Am J Respir Crit Care Med*. 2005;172(8):956-961. doi:10.1164/rccm.200503-323OC.

CHRISTIAN VIRCHOW J, PRASSE A, NAYA I, SUMMERTON L, HARRIS A. Zafirlukast Improves Asthma Control in Patients Receiving High-Dose Inhaled Corticosteroids. *Am J Respir Crit Care Med*. 2000;162(2):578-585. doi:10.1164/ajrccm.162.2.9905041.

Chung KF, Wenzel SE, Brozek JL, et al. International ERS/ATS guidelines on definition, evaluation and treatment of severe asthma. *Eur Respir J*. 2014;43(2):343-373. doi:10.1183/09031936.00202013.

Clark N, Partridge M. Strengthening asthma education to enhance disease control. *Chest J*. 2002. <http://journal.publications.chestnet.org/article.aspx?articleid=1080637>. Accessed October 26, 2016.

Clough JB, Holgate ST. Episodes of respiratory morbidity in children with cough and wheeze. *Am J Respir Crit Care Med*. 1994;150(1):48-53. doi:10.1164/ajrccm.150.1.8025771.

Corren J, Manning BE, Thompson SF, et al. Rhinitis therapy and the prevention of hospital care for asthma. *J Allergy Clin Immunol*. 2004;113(3):415-419. doi:10.1016/j.jaci.2003.11.034.

Cruz AA, Popov T, Pawankar R, et al. Common characteristics of upper and lower airways in rhinitis and asthma: ARIA update, in collaboration with GA 2 LEN. *Allergy*. 2007;62(s84):1-41. doi:10.1111/j.1398-9995.2007.01551.x.

Dabrera G, Murray V, Emberlin J, et al. Thunderstorm asthma: an overview of the evidence base and implications for public health advice. *QJM*. 2013;106(3):207-217. doi:10.1093/qjmed/hcs234.

Davenas E, Beauvais F, Amara J, Oberbaum M. Human basophil degranulation triggered by very dilute antiserum against IgE. *Nature*. 1988. https://www.researchgate.net/profile/Menachem_Oberbaum/publication/259974222_Human_basophil_degranulation_triggered_by_very_dilute_antiserum_against_IgE/links/548827e80cf2ef34478f0347.pdf. Accessed October 26, 2016.

David M, Chhajed PN, Tamm M, Stolz D, Surber C, Leuppi JD. Diagnostic tests for asthma in firefighters. *Chest*. 2007;131(6):1760-1767. doi:10.1378/chest.06-2218.

Desai D, Brightling C. Cough Due to Asthma, Cough-Variant Asthma and Non-Asthmatic Eosinophilic Bronchitis. *Otolaryngol Clin North Am*. 2010;43(1):123-130. doi:10.1016/j.otc.2009.11.006.

Dixon AEA, Pratley RER, Forgiione PPM, et al. Effects of obesity and bariatric surgery on airway hyperresponsiveness, asthma control, and inflammation. *J Allergy Clin Immunol*. 2011;128(3):508-515.e2. doi:10.1016/j.jaci.2011.06.009.

Ducharme FM, Ni Chroinin M, Greenstone I, Lasserson TJ. Addition of long-acting beta2-agonists to inhaled corticosteroids versus same dose inhaled corticosteroids for chronic asthma in adults and children. In: Ducharme FM, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2010. doi:10.1002/14651858.CD005535.pub2.

Ducharme FM, Ni Chroinin M, Greenstone I, Lasserson TJ. Addition of long-acting beta2-agonists to inhaled steroids versus higher dose inhaled steroids in adults and children with persistent asthma. In: Ducharme FM, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2010. doi:10.1002/14651858.CD005533.pub2.

Durham SR, Walker SM, Varga E-M, et al. Long-Term Clinical Efficacy of Grass-Pollen Immunotherapy. *N Engl J Med*. 1999;341(7):468-475. doi:10.1056/NEJM199908123410702.

Dürr S, Hersberger KE, Zeller A, et al. The integrated care of asthma in Switzerland (INCAS)–study: Patients’ perspective of received asthma care and their interest in asthma education. *J Asthma*. 2016;1-9. doi:10.3109/02770903.2016.1170140.

Eichenberger P, Diener S, Kofmehl R, Spengler C. Effects of exercise training on airway hyperreactivity in asthma: a systematic review and meta-analysis. *Sport Med*. 2013. <http://link.springer.com/article/10.1007/s40279-013-0077-2>. Accessed October 26, 2016.

Ernando F, Artinez DM, Nne A, et al. ASTHMA AND WHEEZING IN THE FIRST SIX YEARS OF LIFE. *New Engl Jorunal Med*. 1995;332(3):133-138. doi:10.1056/NEJM199501193320301.

Ernst P, Spitzer WO, Suissa S, et al. Risk of Fatal and Near-Fatal Asthma in Relation to Inhaled Corticosteroid Use. *JAMA J Am Med Assoc*. 1992;268(24):3462. doi:10.1001/jama.1992.03490240070039.

Erzinger S, Schuepp KG, Brooks-Wildhaber J, Devadason SG, Wildhaber JH. Facemasks and aerosol delivery in vivo. *J Aerosol Med*. 2007;20 Suppl 1(s1):S78-83-4. doi:10.1089/jam.2007.0572.

Evans DJ, Taylor DA, Zetterstrom O, Chung KF, O’Connor BJ, Barnes PJ. A Comparison of Low-Dose Inhaled Budesonide plus Theophylline and High-Dose Inhaled Budesonide for Moderate Asthma. <http://dx.doi.org/101056/NEJM199711133372002>. 2009.

Farah CS, Salome CM. Asthma and obesity: A known association but unknown mechanism. *Respirology*. 2012;17(3):412-421. doi:10.1111/j.1440-1843.2011.02080.x.

Ferguson JE, Patel SS, Lockey RFRF, et al. Acute asthma, prognosis, and treatment. *J Allergy Clin Immunol*. 2016;0(0):469-478. doi:10.1016/j.jaci.2016.06.054.

Fitzpatrick S, Joks R, Silverberg JI. Obesity is associated with increased asthma severity and exacerbations, and increased serum immunoglobulin E in inner-city adults. *Clin Exp Allergy*. 2012;42(5):747-759. doi:10.1111/j.1365-2222.2011.03863.x.

Fokkens WJ, Lund VJ, Mullol J, et al. EPOS 2012: European position paper on rhinosinusitis and nasal polyps 2012. A summary for otorhinolaryngologists. *Rhinology*. 2012;50(1):1-12. doi:10.4193/Rhino50E2.

Foster JM, Aucott L, van der Werf RHW, et al. Higher patient perceived side effects related to higher daily doses of inhaled corticosteroids in the community: a cross-sectional analysis. *Respir Med*. 2006;100(8):1318-1336. doi:10.1016/j.rmed.2005.11.029.

Fouzas S, Brand PLP. Predicting persistence of asthma in preschool wheezers: crystal balls or muddy waters? *Paediatr Respir Rev*. 2013;14(1):46-52. doi:10.1016/j.prrv.2012.08.004.

Francis H, Fletcher G, Anthony C. Clinical effects of air filters in homes of asthmatic adults sensitized and exposed to pet allergens. *Clin*. 2003. <http://onlinelibrary.wiley.com/doi/10.1046/j.1365-2222.2003.01570.x/full>. Accessed October 26, 2016.

Frey U, Brodbeck T, Majumdar A, et al. Risk of severe asthma episodes predicted from fluctuation analysis of airway function. *Nature*. 2005;438(7068):667-670. doi:10.1038/nature04176.

Frey U. Why are infants prone to wheeze? Physiological aspects of wheezing disorders in infants. *Swiss Med Wkly Off J Swiss Soc Infect Dis Swiss Soc Intern Med Swiss Soc Pneumol*. 2001;131(27-28):400-406. doi:2001/27/smw-06137.

Fuhlbrigge AL, Kitch BT, Paltiel AD, et al. FEV1 is associated with risk of asthma attacks in a pediatric population. *J Allergy Clin Immunol*. 2001;107(1):61-67. doi:10.1067/mai.2001.111590.

Gibson P, Powell H, Coughlan J, Wilson A. Self-management education and regular practitioner review for adults with asthma (Review). 2008. http://www.onlinecpg.com/ast/SEARCH/SR/Gibson_2002_Self_Management.pdf. Accessed November 9, 2016.

Gibson P, Powell H. Written action plans for asthma: an evidence-based review of the key components. *Thorax*. 2004. <http://thorax.bmj.com/content/59/2/94.full>. Accessed October 26, 2016.

Gibson PG, McDonald VM, Marks GB, et al. Asthma in older adults. *Lancet (London, England)*. 2010;376(9743):803-813. doi:10.1016/S0140-6736(10)61087-2.

Gibson PG, Powell H, Coughlan J, et al. Self-management education and regular practitioner review for adults with asthma. *Cochrane database Syst Rev*. 2002;(1):CD001117. doi:10.1002/14651858.CD001117.

Gilliland F, Islam T, Berhane K. Regular smoking and asthma incidence in adolescents. *Crit Care Med*. 2006. <http://www.atsjournals.org/doi/abs/10.1164/rccm.200605-722OC>. Accessed October 20, 2016.

Global Initiative for Asthma. Global Strategy For Asthma Management and Prevention. www.ginasthma.org. 2016:1-147.

Global Initiative for Chronic Obstructive Lung Disease: Global Strategy for Diagnosis, Management and Prevention of COPD. (Updated 2015).

Gluck JC, Gluck PA. The Effect of Pregnancy on the Course of Asthma. *Immunol Allergy Clin North Am*. 2006;26(1):63-80. doi:10.1016/j.iac.2005.10.008.

- Goldman J, Muers M. Vocal cord dysfunction and wheezing. *Lung*. 1991;l(6):401-404.
- Goodwin RD, Jacobi F, Thefeld W, et al. Mental Disorders and Asthma in the Community. *Arch Gen Psychiatry*. 2003;60(11):1125. doi:10.1001/archpsyc.60.11.1125.
- Gøtzsche PC, Johansen HK. House dust mite control measures for asthma. *Cochrane database Syst Rev*. 2008;(2):CD001187. doi:10.1002/14651858.CD001187.pub3.
- Grize L, Gassner M, Wüthrich B, et al. Trends in prevalence of asthma, allergic rhinitis and atopic dermatitis in 5-7-year old Swiss children from 1992 to 2001. *Allergy Eur J Allergy Clin Immunol*. 2006;61(5):556-562. doi:10.1111/j.1398-9995.2006.01030.x.
- Guidelines for Methacholine and Exercise Challenge Testing—1999. <http://dx.doi.org/10.1164/ajrccm1611.ats11-99>. 2012.
- J, Z. K. Asthma Bronchiale and Exercise-Induced Bronchoconstriction. *Respiration*. 2015;89(6):505-512. <http://www.karger.com/Article/FullText/433559>. Accessed October 26, 2016.
- Hagan JB, Samant SA, Volcheck GW, et al. The risk of asthma exacerbation after reducing inhaled corticosteroids: a systematic review and meta-analysis of randomized controlled trials. *Allergy*. 2014;69(4):510-516. doi:10.1111/all.12368.
- Haldar P, Brightling CE, Hargadon B, et al. Mepolizumab and Exacerbations of Refractory Eosinophilic Asthma. *N Engl J Med*. 2009;360:973-984. doi:10.1056/NEJMoa0808991.
- Haldar P, Pavord IDI, Shaw DE DE, et al. Cluster analysis and clinical asthma phenotypes. 2008;178(3):218-224. doi:10.1164/rccm.200711-1754OC.
- Hansen S, Probst-Hensch N, Keidel D, et al. Gender differences in adult-onset asthma: Results from the Swiss SAPALDIA cohort study. *Eur Respir J*. 2015;46(4):1011-1020. doi:10.1183/13993003.02278-2014.
- Haselkorn T, Fish JE, Zeiger RS, et al. Consistently very poorly controlled asthma, as defined by the impairment domain of the Expert Panel Report 3 guidelines, increases risk for future severe asthma exacerbations in The Epidemiology and Natural History of Asthma: Outcomes and Treatment Regime. *J Allergy Clin Immunol*. 2009;124(5):895-902.e4. doi:10.1016/j.jaci.2009.07.035.
- Hedlin G. Management of severe asthma in childhood—state of the art and novel perspectives. *Pediatr Allergy Immunol*. 2014;25(2):111-121. doi:10.1111/pai.12112.
- Henderson J, Granell R, Heron J, et al. Associations of wheezing phenotypes in the first 6 years of life with atopy, lung function and airway responsiveness in mid-childhood. *Thorax*. 2008;63(11):974-980. doi:10.1136/thx.2007.093187.
- Holt PG, Sly PD. Viral infections and atopy in asthma pathogenesis: new rationales for asthma prevention and treatment TL – 18. *Nat Med*. 2012;18 VN-r(5):726-735. doi:10.1038/nm.2768.
- Horvat JC, Starkey MR, Kim RY, et al. Chlamydial respiratory infection during allergen sensitization drives neutrophilic allergic airways disease. *J Immunol*. 2010;184(8):4159-4169. doi:10.4049/jimmunol.0902287.

Illi S, von Mutius E, Lau S, Niggemann B, Grüber C, Wahn U. Perennial allergen sensitisation early in life and chronic asthma in children: a birth cohort study. *Lancet*. 2006;368(9537):763-770. doi:10.1016/S0140-6736(06)69286-6.

Jacobsen L, Niggemann B, Dreborg S, Ferdousi H. Jacobsen et al. – 2007 – Specific immunotherapy has long-term preventive effect of seasonal and perennial asthma 10-year follow-up on the PAT study. – Allergy.pdf. *Allergy*. 2007. <http://onlinelibrary.wiley.com/doi/10.1111/j.1398-9995.2007.01451.x/full>. Accessed December 6, 2016.

Janson C, Larsson K, Lisspers KH, et al. Pneumonia and pneumonia related mortality in patients with COPD treated with fixed combinations of inhaled corticosteroid and long acting β_2 agonist: observational matched cohort study (PATHOS). *BMJ*. 2013;346(9524):f3306. doi:10.1136/bmj.f3306.

Jenkins CR, Thien FCK, Wheatley JR, Reddel HK. Traditional and patient-centred outcomes with three classes of asthma medication. *Eur Respir J*. 2005;26(1):36-44. doi:10.1183/09031936.05.00144704.

Joos GF, O'Connor B, Anderson SD, et al. Indirect airway challenges. *Eur Respir J*. 2003;21(6):1050-1068. <http://www.ncbi.nlm.nih.gov/pubmed/12797503>. Accessed July 16, 2016.

Joshi S, Powell T, Watkins WJ, et al. Exercise-induced bronchoconstriction in school-aged children who had chronic lung disease in infancy. *J Pediatr*. 2013;162(4):813-818.e1. doi:10.1016/j.jpeds.2012.09.040.

Juniper E, O'Byrne P, Guyatt G, Ferrie P, King D. Development and validation of a questionnaire to measure asthma control. *Eur Respir J*. 1999;14(4):902-907.

Kerstjens HA, Brand PL, de Jong PM, Koëter GH, Postma DS. Influence of treatment on peak expiratory flow and its relation to airway hyperresponsiveness and symptoms. The Dutch CNSLD Study Group. *Thorax*. 1994;49(11):1109-1115.

Kew KM, Karner C, Mindus SM, Ferrara G. Combination formoterol and budesonide as maintenance and reliever therapy versus combination inhaler maintenance for chronic asthma in adults and children. In: Kew KM, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2013. doi:10.1002/14651858.CD009019.pub2.

KILLIAN KJ, WATSON R, OTIS J, ST. AMAND TA, O'BYRNE PM. Symptom Perception during Acute Bronchoconstriction. <http://dx.doi.org/101164/ajrccm16229905079>. 2012.

Kuiper D. Dysfunctional breathing and asthma. Trial shows benefits of Buteyko breathing techniques. *BMJ*. 2001;323(7313):631-632. <http://www.ncbi.nlm.nih.gov/pubmed/11575317>. Accessed October 26, 2016.

Kwok PCL, Chan H-K. Delivery of inhalation drugs to children for asthma and other respiratory diseases. *Adv Drug Deliv Rev*. 2014;73:83-88. doi:10.1016/j.addr.2013.11.007.

Lange P, Parner J, Vestbo J, Schnohr P, Jensen G. A 15-Year Follow-up Study of Ventilatory Function in Adults with Asthma. <http://dx.doi.org/101056/NEJM199810223391703>. 2009.

Lavoie KL, Bacon SL, Labrecque M, Cartier A, Ditto B. Higher BMI is associated with worse asthma control and quality of life but not asthma severity. *Respir Med.* 2006;100(4):648-657. doi:10.1016/j.rmed.2005.08.001.

Lavoie KL, Cartier A, Labrecque M, et al. Are psychiatric disorders associated with worse asthma control and quality of life in asthma patients? *Respir Med.* 2005;99(10):1249-1257. doi:10.1016/j.rmed.2005.03.003.

Lazarus S. Emergency Treatment of Asthma. *N Engl J Med.* 2010. http://ont.bpums.ac.ir/UploadedFiles/CourseFiles/NEJM_TREATMENT_OF_ASTHMA__6deb54de.pdf. Accessed November 9, 2016.

Leuppi J, Steurer-Stey C, Peter M. Asthma control in Switzerland: a general practitioner based survey. *Med Res ...* 2006. <http://www.tandfonline.com/doi/abs/10.1185/030079906X148454>. Accessed October 26, 2016.

Leuppi JD, Brannan JD, Anderson SD. Bronchial provocation tests?: The rationale for using inhaled mannitol as a test for airway hyperresponsiveness. *Swiss Med Wkly.* 2002;(132):151–158.

Leuppi JD. Bronchoprovocation tests in asthma: direct versus indirect challenges. *Curr Opin Pulm Med.* 2014;20(1):31-36. doi:10.1097/MCP.0000000000000009.

LH R-N, EH B. High-altitude treatment: a therapeutic option for patients with severe, refractory asthma? *Clin Exp Allergy.* 2011;41(6):775-782. <http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2222.2011.03733.x/full>. Accessed October 26, 2016.

Lim A, Stewart K, Konig K, George J. Systematic Review of the Safety of Regular Preventive Asthma Medications During Pregnancy. *Ann Pharmacother.* 2011;45(7-8):931-945. doi:10.1345/aph.1P764.

Maddox J, Randi J, Stewart WW. “High-dilution” experiments a delusion. *Nature.* 1988;334(July):287-291. doi:10.1038/334287a0.

Marco R de, Accordini S, Marcon A. Risk factors for chronic obstructive pulmonary disease in a European cohort of young adults. *Am J.* 2011. <http://www.atsjournals.org/doi/abs/10.1164/rccm.201007-1125OC>. Accessed October 20, 2016.

Mastrorade JG, Anthonisen NR, Castro M, Holbrook T, Leone FT, Wise RA. Efficacy of Esomeprazole for Treatment of Poorly Controlled Asthma. *n engl j med.* 2009;36015(9).

Melani AS, Bonavia M, Cilenti V, et al. Inhaler mishandling remains common in real life and is associated with reduced disease control. *Respir Med.* 2011;105(6):930-938. doi:10.1016/j.rmed.2011.01.005.

Miedinger D, Mosimann N, Meier R, et al. Asthma Tests in the Assessment of Military Conscripts. In: *C73. ASSESSMENT OF AIRWAY PATHOPHYSIOLOGY*. American Thoracic Society; 2009:A5069. doi:10.1164/ajrccm-conference.2009.179.1_MeetingAbstracts.A5069.

Miedinger D, Neukomm E, Chhajed PN, et al. The use of the Asthma Control Test in general

practice and its correlation with asthma control according to the GINA guidelines. *Curr Med Res Opin.* 2011;27(12):2301-2308. doi:10.1185/03007995.2011.630722.

Miller MK, Lee JH, Miller DP, et al. Recent asthma exacerbations: a key predictor of future exacerbations. *Respir Med.* 2007;101(3):481-489. doi:10.1016/j.rmed.2006.07.005.

Moeller A, Carlsen K-H, Sly PD, et al. Monitoring asthma in childhood: lung function, bronchial responsiveness and inflammation ERS TASK FORCE REVIEW ASTHMA IN CHILDHOOD. *Eur Respir J Pijnenbg MW Eur Respir J Eur Respir Rev.* 2015;45(24):906-925. doi:10.1183/16000617.00003914.

Moeller A, Steurer-Stey C, Suter H, et al. Disease control in asthmatic children seen in private practice in Switzerland. *Curr Med Res Opin.* 2006;22(7):1295-1306. doi:10.1185/030079906X112633.

Moeller A. Inhalative Kortikosteroide in der Therapie des kindlichen Asthma: Fakten und Mythen. 2014;25(3).

Moore WC. Identification of asthma phenotypes using cluster analysis in the severe asthma research program. *Am J Respir Crit Care Med.* 2009;181:315-323. doi:http://dx.doi.org/10.1164/rccm.200906-0896OC.

Morgan W, Stern D, Guerra S, Guilbert T. Outcome of Asthma and Wheezing in the First Six Years of Life: Follow-up through Adolescence. 2005. https://www.researchgate.net/profile/Stefano_Guerra/publication/7650742_Outcome_of_Asthma_and_Wheezing_in_the_First_6_Years_of_Life/links/02e7e5247cb2878841000000.pdf. Accessed December 6, 2016.

Morris MJ, Deal LE, Bean DR, Grbach VX, Morgan JA. Vocal Cord Dysfunction in Patients With Exertional Dyspnea. *Chest.* 1999;116(6):1676-1682. doi:10.1378/chest.116.6.1676.

Murphy VE, Clifton VL, Gibson PG. Asthma exacerbations during pregnancy: incidence and association with adverse pregnancy outcomes. *Thorax.* 2006;61(2):169-176. doi:10.1136/thx.2005.049718.

Nathan RA, Sorkness CA, Kosinski M, et al. Development of the asthma control test? A survey for assessing asthma control. *J Allergy Clin Immunol.* 2004;113(1):59-65. doi:10.1016/j.jaci.2003.09.008.

National Heart, Lung, and Blood Institute WW, National Asthma Education and Prevention Program Asthma and Pregnancy Working Group HL, Belanger K, et al. NAEPP expert panel report. Managing asthma during pregnancy: recommendations for pharmacologic treatment-2004 update. *J Allergy Clin Immunol.* 2005;115(1):34-46. doi:10.1016/j.jaci.2004.10.023.

Newman KB, U G Mason 3rd, Schmalings KB. Clinical features of vocal cord dysfunction. <http://dx.doi.org/101164/ajrccm15247551399>. 2012.

Ni Chroinin M, Greenstone I, Lasserson TJ, Ducharme FM. Addition of long-acting beta2-agonists to inhaled steroids as first line therapy for persistent asthma in steroid-naive adults and children. In: Ni Chroinin M, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley &

Sons, Ltd; 2009. doi:10.1002/14651858.CD005307.pub2.

Niggemann B, Jacobsen L, Dreborg S, et al. Five-year follow up on the PAT study: Specific immunotherapy and long-term prevention of asthma in children. *Allergy*. 2006;61:855-859. http://www.academia.edu/download/42627455/Five-year_follow-up_on_the_PAT_study_Spe20160212-7192-1aca07f.pdf. Accessed December 6, 2016.

Nolan P. Clinical features predictive of exercise-induced asthma in children. *Respirology*. 1996;1(3):201-205. <http://onlinelibrary.wiley.com/doi/10.1111/j.1440-1843.1996.tb00033.x/abstract>. Accessed December 6, 2016.

Normansell R, Walker S, Milan SJ, Walters EH, Nair P. Omalizumab for asthma in adults and children. In: Walker S, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2014. doi:10.1002/14651858.CD003559.pub4.

O'BYRNE PM, BARNES PJ, RODRIGUEZ-ROISIN R, et al. Low Dose Inhaled Budesonide and Formoterol in Mild Persistent Asthma. <http://dx.doi.org/101164/ajrccm16482104102>. 2012.

O'Byrne PM, Pedersen S, Lamm CJ, Tan WC, Busse WW. Severe Exacerbations and Decline in Lung Function in Asthma. <http://dx.doi.org/101164/rccm200807-1126OC>. 2012.

Olin JT, Clary MS, Deardorff EH, et al. Inducible laryngeal obstruction during exercise: moving beyond vocal cords with new insights. *Phys Sportsmed*. 2015;43(1):13-21. doi:10.1080/00913847.2015.1007026.

Ortega HG, Liu MC, Pavord ID, et al. Mepolizumab Treatment in Patients with Severe Eosinophilic Asthma. *N Engl J Med*. 2014;371(13):1198-1207. doi:10.1056/NEJMoa1403290.

Osborne ML, Pedula KL, O'Hollaren M, et al. Assessing Future Need for Acute Care in Adult Asthmatics. *Chest*. 2007;132(4):1151-1161. doi:10.1378/chest.05-3084.

Papi A, Contoli M, Adcock IM, et al. Rhinovirus infection causes steroid resistance in airway epithelium through nuclear factor kB and c-Jun N-terminal kinase activation. *Journal of Allergy and Clinical Immunology*. <http://www.sciencedirect.com/science/article/pii/S0091674913008464>. Published 2013. Accessed October 20, 2016.

Papi A, Corradi M, Pigeon-Francisco C, et al. Beclometasone-formoterol as maintenance and reliever treatment in patients with asthma: a double-blind, randomised controlled trial. *Lancet Respir Med*. 2013;1(1):23-31. doi:10.1016/S2213-2600(13)70012-2.

Parry GD, Cooper CL, Moore JM, et al. Cognitive behavioural intervention for adults with anxiety complications of asthma: prospective randomised trial. *Respir Med*. 2012;106(6):802-810. doi:10.1016/j.rmed.2012.02.006.

Parsons JP, Hallstrand TS, Mastronarde JG, et al. An Official American Thoracic Society Clinical Practice Guideline: Exercise-induced Bronchoconstriction. *Am J Respir Crit Care Med*. 2013;187(9):1016-1027. doi:10.1164/rccm.201303-0437ST.

Patel M, Pilcher J, Pritchard A, et al. Efficacy and safety of maintenance and reliever combination

budesonide-formoterol inhaler in patients with asthma at risk of severe exacerbations: a randomised controlled trial. *Lancet Respir Med.* 2013;1(1):32-42. doi:10.1016/S2213-2600(13)70007-9.

Patel M, Pilcher J, Reddel HK, et al. Metrics of salbutamol use as predictors of future adverse outcomes in asthma. *Clin Exp Allergy.* 2013;43(10):n/a-n/a. doi:10.1111/cea.12166.

Pauwels RA, Löfdahl CG, Postma DS, et al. Effect of inhaled formoterol and budesonide on exacerbations of asthma. Formoterol and Corticosteroids Establishing Therapy (FACET) International Study Group. *N Engl J Med.* 337(20):1405-1411. doi:10.1056/NEJM199711133372001.

Pauwels RRAR, Pedersen S, Busse WWWW, et al. Early intervention with budesonide in mild persistent asthma: a randomised, double-blind trial. *Lancet.* 2003;361(9363):1071-1076. doi:10.1016/S0140-6736(03)12891-7.

Pavord IIDIID, Korn S, Howarth P, et al. Mepolizumab for severe eosinophilic asthma (DREAM): a multicentre, double-blind, placebo-controlled trial. *Lancet.* 2012;380(9842):651-659. doi:10.1016/S0140-6736(12)60988-X.

Pazdrak K, Kurosky A. Functional proteomics for the characterization of impaired cellular responses to glucocorticoids in asthma. *Adv Exp Med Biol.* 2014;795:255-270. doi:10.1007/978-1-4614-8603-9_16.

Pescatore AM, Dogaru CM, Duembgen L, et al. A simple asthma prediction tool for preschool children with wheeze or cough. *J Allergy Clin Immunol.* 2014;133(1):111-8-13. doi:10.1016/j.jaci.2013.06.002.

Pfaar O, Bachert C, Bufe A, et al. Leitlinie zur (allergen-) spezifischen Immuntherapie bei IgE-vermittelten allergischen Erkrankungen Schlüsselwörter. *Allegro J int.* 2014;23:282-319. doi:10.1007/s40629-014-0032-2.

Philip G, Nayak AS, Berger WE, et al. The effect of montelukast on rhinitis symptoms in patients with asthma and seasonal allergic rhinitis. <http://dx.doi.org/101185/030079904X3348>. 2004.

Pijnenburg MW, Baraldi E, Brand PLP, et al. Monitoring asthma in children. *Eur Respir J.* 2015;45(4):906-925. doi:10.1183/09031936.00088814.

Platts-Mills T, Mitchell E, Nock P, Tovey E. Reduction of bronchial hyperreactivity during prolonged allergen avoidance. *Lancet.* 1982. <http://www.sciencedirect.com/science/article/pii/S0140673682907097>. Accessed October 26, 2016.

Platts-Mills TAE. Allergen avoidance in the treatment of asthma: Problems with the meta-analyses. *J Allergy Clin Immunol.* 2008;122(4):694-696. doi:10.1016/j.jaci.2008.07.045.

Powell H, Gibson PG. Inhaled corticosteroid doses in asthma: an evidence-based approach. *Med J Aust.* 2003;178(5):223-225.

Pumphrey RSHRSH, Gowland MH, Pumphrey RSHRSH, et al. Further fatal allergic reactions to

food in the United Kingdom, 1999-2006. *J Allergy Clin Immunol.* 2007;119(4):1018-1019. doi:10.1016/j.jaci.2007.01.021.

Rackemann F. A working classification of asthma. *Am J Med.* 1947. <http://www.sciencedirect.com/science/article/pii/0002934347902040>. Accessed October 20, 2016.

Raissy HH, Kelly HW, Harkins M, Szeffler SJ. Inhaled Corticosteroids in Lung Diseases. <http://dx.doi.org/101164/rccm201210-1853PP>. 2013.

Ramnath V, Clark S, Camargo C. Multicenter study of clinical features of sudden-onset versus slower-onset asthma exacerbations requiring hospitalization. *Respir Care.* 2007. <http://rc.rcjournal.com/content/52/8/1013.short>. Accessed November 9, 2016.

Ramsdale EH, Morris MM, Roberts RS, Hargreave FE. Asymptomatic bronchial hyperresponsiveness in rhinitis. *J Allergy Clin Immunol.* 1985;75(5):573-577. <http://www.ncbi.nlm.nih.gov/pubmed/4039344>. Accessed July 16, 2016.

Ramsdale EH, Morris MM, Roberts RS, Hargreave FE. Bronchial responsiveness to methacholine in chronic bronchitis: relationship to airflow obstruction and cold air responsiveness. *Thorax.* 1984;39(12):912-918. <http://www.ncbi.nlm.nih.gov/pubmed/6393416>. Accessed July 16, 2016.

Reddel HHH, Ware SSSS, Marks GGG, et al. Differences between asthma exacerbations and poor asthma control. *Lancet.* 1999;353(9150):364-369. doi:10.1016/S0140-6736(98)06128-5.

Reddel HK, Marks GB, Jenkins CR. When can personal best peak flow be determined for asthma action plans? *Thorax.* 2004;59(11):922-924. doi:10.1136/thx.2004.023077.

Reddel HK, Taylor DR, Bateman ED, et al. An Official American Thoracic Society/European Respiratory Society Statement: Asthma Control and Exacerbations. *Am J Respir Crit Care Med.* 2009;180(1):59-99. doi:10.1164/rccm.200801-060ST.

Reed CECE, Sharma G, Goodwin J, et al. Asthma in the elderly: Diagnosis and management. *J Allergy Clin Immunol.* 2010;126(4):681-687. doi:10.1016/j.jaci.2010.05.035.

Rietveld S, Everaerd W. Perceptions of asthma by adolescents at home. *Chest.* 2000;117(2):434-439. <http://journal.publications.chestnet.org/article.aspx?articleid=1078603>. Accessed December 6, 2016.

Rivington RN, Boulet LP, Côté J, et al. Efficacy of Uniphyll, salbutamol, and their combination in asthmatic patients on high-dose inhaled steroids. *Am J Respir Crit Care Med.* 1995;151(2 Pt 1):325-332. doi:10.1164/ajrccm.151.2.7842186.

Roberts G, Patel N, Levi-Schaffer F, Habibi P, Lack G. Food allergy as a risk factor for life-threatening asthma in childhood: A case-controlled study. *J Allergy Clin Immunol.* 2003;112(1):168-174. doi:10.1067/mai.2003.1569.

Robertson CF, Price D, Henry R, et al. Short-course montelukast for intermittent asthma in children a randomized controlled trial. *Am J Respir Crit Care Med.* 2007;175(4):323-329. doi:10.1164/rccm.200510-1546OC.

Rodrigo GJ, Castro-Rodríguez JA. What Is the Role of Tiotropium in Asthma? *Chest.*

2015;147(2):388-396. doi:10.1378/chest.14-1698.

Roland NJ, Bhalla RK, Earis J. The Local Side Effects of Inhaled Corticosteroids: Current Understanding and Review of the Literature. *Chest*. 2004;126(1):213-219. doi:10.1378/chest.126.1.213.

Rosi E, Stendardi L, Binazzi B, Scano G. Perception of Airway Obstruction and Airway Inflammation in Asthma: A Review. *Lung*. 2006;184(5):251-258. doi:10.1007/s00408-005-2590-z.

Roth S, Barrazone C, Barben J, et al. Empfehlungen zur Behandlung der obstruktiven Atemwegserkrankungen im Kindesalter (SGPP / PIA-CH 2009). *Pediatrica*. 2009;20(3):44-51. <http://boris.unibe.ch/30667/>. Accessed December 6, 2016.

Rothe T, Steurer-stey C, Courteheuse C, Nicolet G. Assessmentparameter für das Asthma-Selbstmanagement. 2005:950-956.

Rothe T, Uhlmann KH. Respiratorische Allergien bei Kindern und Erwachsenen. *Prax*. 2016. <http://search.ebscohost.com/login.aspx?direct=true&profile=ehost&scope=site&authtype=crawler&jml=16618157&AN=117539364&h=rrfxIKULzFyxIBz%2BYiB7NxVjzb5Y4IIH%2Fd3k1ePM5EZpYnP4uYV7JFTZKu4vJoodXokxSwS9N11PoFtMChL1gA%3D%3D&crl=c>. Accessed October 26, 2016.

Rothe T. Allergenkarenz als diagnostisches Instrument. *Allergologie*. 2010;(33):441-444.

Rottier B, Eber E, Hedlin G, Turner S, Wooler E. Monitoring asthma in childhood: management-related issues. 2015:194-203. <http://www.leicspart.nhs.uk/Library/Monitoringasthmainchildhoodmanagementrelatedissues.pdf>. Accessed December 6, 2016.

Ruffilli A, Bonini S. Susceptibility genes for allergy and asthma. *Allergy*. 1997;52(3):256-273. <http://onlinelibrary.wiley.com/doi/10.1111/j.1398-9995.1997.tb00990.x/full>. Accessed October 20, 2016.

Saglani S, Payne DN, Zhu J, et al. Early detection of airway wall remodeling and eosinophilic inflammation in preschool wheezers. *Am J Respir Crit Care Med*. 2007;176(9):858-864. doi:10.1164/rccm.200702-212OC.

Saint-Pierre P, Bourdin A, Chanez P, Daures J-P, Godard P. Are overweight asthmatics more difficult to control? *Allergy*. November 2005:51101064327001. doi:10.1111/j.1398-9995.2005.00953.x.

Savenije OE, Granell R, Caudri D, et al. Comparison of childhood wheezing phenotypes in 2 birth cohorts: ALSPAC and PIAMA. *J Allergy Clin Immunol*. 2011;127(6). doi:10.1016/j.jaci.2011.02.002.

Schafroth Török S, Mueller T, Miedinger D, et al. An open-label study examining the effect of pharmacological treatment on mannitol- and exercise-induced airway hyperresponsiveness in asthmatic children and adolescents with exercise-induced bronchoconstriction. *BMC Pediatr*. 2014;14(1):196. doi:10.1186/1471-2431-14-196.

- Schatz M, Kosinski M, Yarlal AS, et al. The minimally important difference of the Asthma Control Test. *J Allergy Clin Immunol.* 2007;124(4):719-723.e1. doi:10.1016/j.jaci.2009.06.053.
- Schoni MH, Nikolaizik WH, Schoni-Affolter F. Efficacy trial of bioresonance in children with atopic dermatitis. *Int Arch Allergy Immunol.* 1997;112(3):238-246. <http://www.karger.com/Article/Abstract/237460>. Accessed October 26, 2016.
- Schuermans M, Zellweger J. Raucherentwöhnung in der Arztpraxis—Neue Möglichkeiten? *Rev Med Suisse.* 2012. <http://www.revmed.ch/rms/2012/RMS-325/Raucherentwoehnung-in-der-Arztpraxis-Neue-Moeglichkeiten>. Accessed October 26, 2016.
- Selroos O, Haahtela T, Järvinen M, et al. Effect of disease duration on dose-response of inhaled budesonide in asthma. *Respir Med.* 2008;102(7):1065-1072. doi:10.1016/j.rmed.2007.12.029.
- Selroos O, Pietinalho A, Löfroos A-B, Riska H. Effect of Early vs Late Intervention With Inhaled Corticosteroids in Asthma. *Chest.* 1995;108(5):1228-1234. doi:10.1378/chest.108.5.1228.
- Shapira MY, Berkman N, Ben-David G, Avital A, Bardach E, Breuer R. Short-term acupuncture therapy is of no benefit in patients with moderate persistent asthma. *Chest.* 2002;121(5):1396-1400. doi:10.1378/chest.121.5.1396.
- Sheikh A, Alves B, Dhimi S. Pneumococcal vaccine for asthma. In: Sheikh A, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2002. doi:10.1002/14651858.CD002165.
- Sideleva O, Suratt BT, Black KE, et al. Obesity and asthma: An inflammatory disease of adipose tissue not the airway. *Am J Respir Crit Care Med.* 2012;186(7):598-605. doi:10.1164/rccm.201203-0573OC.
- Silva D, Moreira A. The role of sports and exercise in allergic disease: drawbacks and benefits. *Expert Rev Clin Immunol.* 2015:1-11. doi:10.1586/1744666X.2015.1058158.
- Sin DD, Miravittles M, Mannino DM, et al. What is asthma-COPD overlap syndrome? Towards a consensus definition from a round table discussion. *Eur Respir J.* 2016;48(3):664-673. doi:10.1183/13993003.00436-2016.
- Slavin RG, Haselkorn T, Lee JH, et al. Asthma in older adults: observations from the Epidemiology and Natural History of Asthma: Outcomes and Treatment Regimens (TENOR) study. *Ann Allergy, Asthma Immunol.* 2006;96(3):406-414. doi:10.1016/S1081-1206(10)60907-6.
- Stein RT MF. Asthma phenotype in childhood: lessons from an epidemiological approach. *Paediatr Respir Rev.* 2004;5:155-161. <http://www.nescon.medicina.ufmg.br/biblioteca/imagem/1650.pdf>. Accessed December 6, 2016.
- Steurer-Stey C, Fletcher M, Vetter W, Steurer J. Patient education in asthma: a survey of physicians' knowledge of the principles and implementation of self-management in practice. *Hosp (Lond 1886).* 2006. <http://www.smw.ch/docs/pdf200x/2006/35/smw-11377.PDF>. Accessed October 26, 2016.

Stevenson DD. Diagnosis, prevention, and treatment of adverse reactions to aspirin and nonsteroidal anti-inflammatory drugs. *J Allergy Clin Immunol.* 1984;74(4 Pt 2):617-622. <http://www.ncbi.nlm.nih.gov/pubmed/6436354>. Accessed July 26, 2016.

Sturdy PM, Victor CR, Anderson HR, et al. Psychological, social and health behaviour risk factors for deaths certified as asthma: a national case-control study. *Thorax.* 2002;57(12):1034-1039. doi:10.1136/thorax.57.12.1034.

Suh DI, Lee JK, Kim CK, Koh YY. Methacholine and adenosine 5'-monophosphate (AMP) responsiveness, and the presence and degree of atopy in children with asthma. *Pediatr Allergy Immunol.* 2011;22(1 PART 2). doi:10.1111/j.1399-3038.2010.01110.x.

Suissa S, Blais L, Ernst P. Patterns of increasing beta-agonist use and the risk of fatal or near-fatal asthma. *Eur Respir J.* 1994;7(9):1602-1609. doi:10.1183/09031936.94.07091602.

Suissa S, Ernst P, Benayoun S, et al. Low-Dose Inhaled Corticosteroids and the Prevention of Death from Asthma. <http://dx.doi.org/101056/NEJM200008033430504>. 332.

Suissa S, Ernst P, Boivin JF, et al. A cohort analysis of excess mortality in asthma and the use of inhaled beta-agonists. <http://dx.doi.org/101164/ajrccm14938118625>. 2012.

Sullivan MD, Heywood BM, Beukelman DR. A Treatment for Vocal Cord Dysfunction in Female Athletes: An Outcome Study. *Laryngoscope.* 2001;111(10):1751-1755. doi:10.1097/00005537-200110000-00016.

Sutherland ER, Goleva E, Strand M, Beuther DA, Leung DYM. Body Mass and Glucocorticoid Response in Asthma. <http://dx.doi.org/101164/rccm200801-076OC>. 2012.

Wierczyńska-Krępa M, Sanak M, Bochenek G, et al. Aspirin desensitization in patients with aspirin-induced and aspirin-tolerant asthma: a double-blind study. *J Allergy Clin Immunol.* 2014;134(4):883-890. doi:10.1016/j.jaci.2014.02.041.

Szczeklik A, Nizankowska E, Duplaga M. Natural history of aspirin-induced asthma. AIANE Investigators. European Network on Aspirin-Induced Asthma. *Eur Respir J.* 2000;16(3):432-436.

Szeffler SJ, Martin RJ, King TS, et al. Significant variability in response to inhaled corticosteroids for persistent asthma. *J Allergy Clin Immunol.* 2002;109(3):410-418. doi:10.1067/mai.2002.122635.

Taegtmeyer AB, Steurer-Stey C, Price DB, Wildhaber JH, Spertini F, Leuppi JD. Predictors of asthma control in everyday clinical practice in Switzerland. *Curr Med Res Opin.* 2009;25(10):2549-2555. doi:10.1185/03007990903224125.

Taegtmeyer AB, Steurer-Stey C, Spertini F, et al. Allergic rhinitis in patients with asthma: the Swiss LARA (Link Allergic Rhinitis in Asthma) survey. *Curr Med Res Opin.* 2009;25(5):1073-1080. doi:10.1185/03007990902820733.

Tantisira KG, Fuhlbrigge AL, Tonascia J, et al. Bronchodilation and bronchoconstriction: Predictors of future lung function in childhood asthma. *J Allergy Clin Immunol.* 2006;117(6):1264-1271. doi:10.1016/j.jaci.2006.01.050.

- Taylor DR, Bateman ED, Boulet L-P, et al. A new perspective on concepts of asthma severity and control. *Eur Respir J*. 2008;32(3):545-554. doi:10.1183/09031936.00155307.
- Teach SJ, Gill MA, Togias A, et al. Preseasonal treatment with either omalizumab or an inhaled corticosteroid boost to prevent fall asthma exacerbations. *J Allergy Clin Immunol*. 2015;136(6):1476-1485. doi:10.1016/j.jaci.2015.09.008.
- ten Brinke A, Sterk PJ, Masclee AAM, et al. Risk factors of frequent exacerbations in difficult-to-treat asthma. *Eur Respir J*. 2005;26(5):812-818. doi:10.1183/09031936.05.00037905.
- Thomas M, Kay S, Pike J, et al. The Asthma Control Test™ (ACT) as a predictor of GINA guideline-defined asthma control: analysis of a multinational cross-sectional survey. *Prim Care Respir J*. 2009;18(1):41-49. doi:10.4104/pcrj.2009.00010.
- Thomas M, McKinley R, Freeman E, Foy C. Prevalence of dysfunctional breathing in patients treated for asthma in primary care: cross sectional survey. *Bmj*. 2001. <http://www.bmj.com/content/322/7294/1098.short>. Accessed October 26, 2016.
- Tiddens H a, Geller DE, Challoner P, et al. Effect of dry powder inhaler resistance on the inspiratory flow rates and volumes of cystic fibrosis patients of six years and older. *J Aerosol Med*. 2006;19(4):456-465. doi:10.1089/jam.2006.19.456.
- Tschopp JM, Sistek D, Schindler C, et al. Current allergic asthma and rhinitis: diagnostic efficiency of three commonly used atopic markers (IgE, skin prick tests, and Phadiatop). Results from 8329 randomized adults from the SAPALDIA Study. Swiss Study on Air Pollution and Lung Diseases in Adults. *Allergy*. 1998;53(6):608-613. doi:10.1111/j.1398-9995.1998.tb03937.x.
- TURNER MO, NOERTJOJO K, VEDAL S, BAI T, CRUMP S, MARK FITZGERALD J. Risk Factors for Near-fatal Asthma. <http://dx.doi.org/101164/ajrccm15769708092>. 2012.
- Ulrik CS. Outcome of asthma: longitudinal changes in lung function. *Eur Respir J*. 1999;13(4):904-918.
- ULRIK CS. Peripheral eosinophil counts as a marker of disease activity in intrinsic and extrinsic asthma. *Clin <html_ent glyph="&" ascii="&" /> Exp Allergy*. 1995;25(9):820-827. doi:10.1111/j.1365-2222.1995.tb00024.x.
- van Haren EHJ, Lammers J-WJJ-WJJ-WJ, Festen J, et al. The effects of the inhaled corticosteroid budesonide on lung function and bronchial hyperresponsiveness in adult patients with cystic fibrosis. *Respir Med*. 1995;89(3):209-214. doi:10.1016/0954-6111(95)90249-X.
- van Velzen E, van den Bos JW, Benckhuijsen JA, van Essel T, de Bruijn R, Aalbers R. Effect of allergen avoidance at high altitude on direct and indirect bronchial hyperresponsiveness and markers of inflammation in children with allergic asthma. *Thorax*. 1996;51(6):582-584. doi:10.1136/THX.51.6.582.
- Vilozni D, Bentur L, Efrati O, Barak A. Exercise Challenge Test in 3- to 6-Year- Old Asthmatic Children *. *Chest*. 2007;497-503. doi:10.1378/chest.07-0052.
- Virchow C. Intrinsic asthma; symptoms, IgE serum levels, pathophysiology (author's transl). *Prax*

der Pneumol. 1973. <http://www.ncbi.nlm.nih.gov/pubmed/4757039>. Accessed October 20, 2016.

Vogelmeier C, Kardos P, Hofmann T, et al. Nebulised budesonide using a novel device in patients with oral steroid- dependent asthma. *Eur Respir J.* 2015;45(2009):1273-1282. doi:10.1183/09031936.00152014.

Walsh LJ, Wong CA, Osborne J, et al. Adverse effects of oral corticosteroids in relation to dose in patients with lung disease. *Thorax.* 2001;56(4):279-284. doi:10.1136/thorax.56.4.279.

Wang L, Yin J, Fadel R, Montagut A, De Beaumont O, Devillier P. House dust mite sublingual immunotherapy is safe and appears to be effective in moderate, persistent asthma. *Allergy Eur J Allergy Clin Immunol.* 2014;69(9):1181-1188. doi:10.1111/all.12188.

Wechsler ME, Laviolette M, Rubin AS, et al. Bronchial thermoplasty: Long-term safety and effectiveness in patients with severe persistent asthma. *J Allergy Clin Immunol.* 2013;132(6):1295-1302. doi:10.1016/j.jaci.2013.08.009.

Wensley D, Silverman M. Peak flow monitoring for guided self-management in childhood asthma: a randomized controlled trial. *Am J Respir Crit Care Med.* 2004. doi:10.1164/rccm.200307-1025OC.

Wenzel SE. Asthma?: defining of the persistent adult phenotypes. *Lancet.* 2006;368:804-813. <http://www.sciencedirect.com/science/article/pii/S0140673606692908>. Accessed October 27, 2016.

Wilson AM, Dempsey OJ, Sims EJ, Lipworth BJ. A comparison of topical budesonide and oral montelukast in seasonal allergic rhinitis and asthma. *Clin & Exp Allergy.* 2001;31(4):616-624. doi:10.1046/j.1365-2222.2001.01088.x.

Wüthrich B, Schindler C, Leuenberger P, Ackermann-Liebrich U. Prevalence of atopy and pollinosis in the adult population of Switzerland (SAPALDIA study). Swiss Study on Air Pollution and Lung Diseases in Adults. *Int Arch Allergy Immunol.* 1995;106(2):149-156. doi:10.1159/000236836.

Wüthrich B. Pollenallergie: gestern und heute. *Der Inf Arzt, Sonderh.* 2015.

www.swiss-paediatrics.org. <http://www.swiss-paediatrics.org/de/paediatrica/vol17/n4>. Accessed February 9, 2017.

Yorke J, Fleming SL, Shuldham C. Psychological interventions for adults with asthma. In: Yorke J, ed. *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd; 2006. doi:10.1002/14651858.CD002982.pub3.

Zeiger RS, Baker JW, Kaplan MS, et al. Variability of symptoms in mild persistent asthma: baseline data from the MIAMI study. *Respir Med.* 2004;98(9):898-905. <http://www.ncbi.nlm.nih.gov/pubmed/15338804>. Accessed July 24, 2016.

Zhang Y, Leung DYM, Goleva E. Anti-inflammatory and corticosteroid-enhancing actions of vitamin D in monocytes of patients with steroid-resistant and those with steroid-sensitive asthma. *J Allergy Clin Immunol.* 2014;133(6):1744-1752.e1. doi:10.1016/j.jaci.2013.12.004.

