

REFERENCES

1. Bousquet J, Van Cauwenberge P, Khaltaev N. Allergic rhinitis and its impact on asthma. *J Allergy Clin Immunol* 2001;108(Suppl. 5):S147-S334.
2. Bousquet J, Khaltaev N, Cruz AA, Denburg J, Fokkens WJ, Togias A, et al. Allergic Rhinitis and its Impact on Asthma (ARIA) 2008 update (in collaboration with the World Health Organization, GA²LEN and AllerGen). *Allergy* 2008;63:8-160.
3. Meltzer EO. Quality of life in adults and children with allergic rhinitis. *J Allergy Clin Immunol* 2001;108(Suppl 1):545-53.
4. Milgrom H, Bender B. Adverse effects of medications for rhinitis. *Ann Allergy Asthma Immunol* 1997;78:439-46.
5. Spector SL. Overview of comorbid associations of allergic rhinitis. *J Allergy Clin Immunol* 1997;99:773-80.
6. Reed SD, Lee TA, McCrory DC. The economic burden of allergic rhinitis: A critical evaluation of the literature. *Pharmacoeconomics* 2004;22:345-61.
7. Mygind N, Nielsen LP, Hoffmann HJ, Shukla A, Blumberga G, Dahl R, et al. Mode of action of intranasal corticosteroids. *J Allergy Clin Immunol* 2001;108:S16-25.
8. Schoenwetter WF, Dupclay L, Appajosyula S, Botteman MF, Pashos CL. Economic impact and quality-of-life burden of allergic rhinitis. *Curr Med Res Opin* 2004;20:305-17.
9. Frieri M, Therattil J, Chavarria V, Cosachov J, Kumar NS, Wang SF, et al. Effect of mometasone furoate on early and late phase inflammation in patients with seasonal allergic rhinitis. *Ann Allergy Asthma Immunol* 1998;81:431-7.
10. Pipkorn U, Proud D, Lichtenstein LM, Kagey-Sobotka A, Norman PS, Naclerio RM. Inhibition of mediator release in allergic rhinitis by pretreatment with topical glucocorticosteroids. *N Engl J Med* 1987;316:1506-10.

11. Molgaard E, Thomsen SF, Lund T, Pedersen L, Nolte H, Backer V. Differences between allergic and nonallergic rhinitis in a large sample of adolescents and adults. *Allergy* 2007;62:1033-7.
12. Dykewicz MS, Fineman S. Executive Summary of Joint Task Force Practice Parameters on Diagnosis and Management of Rhinitis. *Ann Allergy Asthma Immunol* 1998;81:463-8.
13. Meltzer EO. The prevalence and medical and economic impact of allergic rhinitis in the United States. *J Allergy Clin Immunol* 1997;99:S805-28.
14. Bunnag C, Kongpatanakul S, Jareoncharsri P, Voraprayoon S, Supatchaipisit P. A survey of allergic diseases in university students of Bangkok, Thailand. *J Rhinol* 1997;4:90-3.
15. Boonyarittipong P, Tuchinda M, Balangura K, Visitsuntorn N, Vanaprapara N. Prevalences of allergic diseases in Thai children. *J Pediatr Soc Thailand* 1990;29:24-32.
16. Vichyanond P, Sunthornchart S, Singhirannusorn V, Ruan-grat S, Kaewsomboon S, Visitsuntorn N. Prevalence of asthma, allergic rhinitis and eczema among university students in Bangkok. *Respir Med* 2002;96:34-8.
17. Barnes K, Marsh D. The genetics and complexity of allergy and asthma. *Immunol Today* 1998;19:325-32.
18. Middleton E, Reed CE, Ellis EE, Adkinson NF, Yunginger JW, Busse WW. *Allergy: Principles and Practice, Vol II. 4th ed.* St. Louis: Mosby-Year Book. 1993:1137-71.
19. Edfors-Lubs M. Allergy in 7,000 twin pairs. *Acta Allergol* 1971;26:249-85.
20. von Mutius E, Weiland SK, Fritzsch C, Duhme H, Keil U. Increasing prevalence of hay fever and atopy among children in Leipzig, East Germany. *Lancet* 1998;351:862-6.
21. Katz KA, Pocock SJ, Strachan DP. Neonatal head circumference, neonatal weight, and risk of hayfever, asthma and eczema in a large cohort of adolescents from Sheffield, England. *Clin Exp Allergy* 2003;33:737-45.
22. Braback L, Hedberg A. Perinatal risk factors for atopic disease in conscripts. *Clin Exp Allergy* 1998;28:936-42.

23. Fleming DM, Crombie DL. Prevalence of asthma and hay fever in England and Wales. *Br Med J Clin Res Ed* 1987;294:279-83.
24. Hagy GW, Settipane GA. Risk factors for developing asthma and allergic rhinitis. A 7-year follow-up study of college students. *J Allergy Clin Immunol Today* 1976;58:330-6.
25. Savolainen J, Viander M, Koivikko A. IgE-, IgA- and IgG-antibody responses to carbohydrate and protein antigens of *Candida albicans* in asthmatic children. *Allergy* 1990;45:54-63.
26. Gergen PJ, Turkeltaub PC. The association of individual allergen reactivity with respiratory disease in a national sample: data from the second National Health and Nutrition Examination Survey, 1976-80 (NHANES II). *J Allergy Clin Immunol* 1992;90:579-88.
27. Frosh AC, Sandhu G, Joyce R, Strachan DP. Prevalence of rhinitis, pillow type and past and present ownership of furred pets. *Clin Exp Allergy* 1999;29:457-60.
28. Pope C, Bates DV, Raizenne ME. Health effects of particulate air pollution: time for reassessment. *Environ Health Perspect* 1995;103:472-80.
29. Weiland SK, Mundt KA, Ruckmann A, Keil U. Self-reported wheezing and allergic rhinitis in children and traffic-density on street of residence. *Ann Epidemiol* 1994;4:79-83.
30. Keles N, Ilcali C, Deger K. The effects of different levels of air pollution on atopy and symptoms of allergic rhinitis. *Am J Rhinol* 1999;13:185-90.
31. Leaderer BP, Belanger K, Triche E, Holford T, Gold DR, Kim Y, et al. Dust mite, cockroach, cat, and dog allergen concentrations in homes of asthmatic children in the northeastern United States: impact of socioeconomic factors and population density. *Environ Health Perspect* 2002;110:419-25.
32. Peters-Golden M, Gleason MM, Togias A. Cysteinyl leukotrienes: multi-functional mediators in allergic rhinitis. *Clin Exp Allergy* 2006;36:689-703.

33. Ciprandi G, Buscaglia S, Pesce G, Pronzato C, Ricca V, Parmiani S, et al. Minimal persistent inflammation is present at mucosal level in patients with asymptomatic rhinitis and mite allergy. *J Allergy Clin Immunol* 1995;96:971-9.
34. Kay AB. Allergy and allergic diseases. First of two parts. *N Engl J Med* 2001;344:30-7.
35. Kulig M, Bergmann R, Klettke U, Wahn V, Tacke U, Wahn U. Natural course of sensitization to food and inhalant allergens during the first 6 years of life. *J Allergy Clin Immunol* 1999;103:1173-9.
36. 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;368:763-70.
37. Pearlman DS. Pathophysiology of the inflammatory response. *J Allergy Clin Immunol* 1999;104:S132-7.
38. Canonica GW. Introduction to nasal and pulmonary allergy cascade. *Allergy* 2002;57:8-12.
39. Baroody FM, Ford S, Proud D. Relationship between histamine and physiologic changes during the early response to nasal antigen provocation. *J Appl Physiol* 1999;86:659-68.
40. Bachert C, Hauser U, Prem B, Rudack C, Ganzer U. Proinflammatory cytokines in allergic rhinitis. *Eur Arch Otorhinolaryngol* 1995;252:S44-9.
41. Wang D, Clement P, Smitz J, DeWaele M, Derde MP. Correlations between complaints, inflammatory cells and mediator concentrations in nasal secretions after nasal allergen challenge and during natural allergen exposure. *Int Arch Allergy Immunol* 1995;106:278-85.
42. Pastorello EA, Riario-Sforza GG, Incorvaia C, Segala M, Fumagalli M, Gandini R. Comparison of rhinomanometry, symptom score, and inflammatory cell counts in assessing the nasal late-phase reaction to allergen challenge. *J Allergy Clin Immunol* 1994;93:85-92.
43. Linder A, Venge P, Deuschl H. Eosinophil cationic protein and myeloperoxidase in nasal secretion as markers of inflammation in allergic rhinitis. *Allergy* 1987;42:583-90.

44. Wachs M, Proud D, Lichtenstein LM, Kagey-Sobotka A, Norman PS, Naclerio RM. Observations on the pathogenesis of nasal priming. *J Allergy Clin Immunol* 1989;84:492-501.
45. Baroody FM, Ford S, Lichtenstein LM, Kagey-Sobotka A, Naclerio RM. Physiologic responses and histamine release after nasal antigen challenge. Effect of atropine. *Am J Respir Crit Care Med* 1994;149:1457-65.
46. Wagenmann M, Baroody FM, Desrosiers M, Hubbard WC, Ford S, Lichtenstein LM, et al. Unilateral nasal allergen challenge leads to bilateral release of prostaglandin D2. *Clin Exp Allergy* 1996;26:371-8.
47. Baroody FM, Foster KA, Markaryan A, deTineo M, Naclerio RM. Nasal ocular reflexes and eye symptoms in patients with allergic rhinitis. *Ann Allergy Asthma Immunol* 2008;100:194-9.
48. Baroody FM, Shenaq D, DeTineo M, Naclerio RM. Intranasal fluticasone furoate (FF) reduces eye symptoms after nasal allergen challenge (NAC). *J Allergy Clin Immunol* 2008;121:S151.
49. Baraniuk JN, Lundgren JD, Okayama M, Goff J, Mullol J, Merida M, et al. Substance P and neurokinin A in human nasal mucosa. *Am J Respir Cell Mol Biol* 1991 4:228-36.
50. Okamoto Y, Shirotori K, Kudo K, Ishikawa K, Ito E, Togawa K, et al. Cytokine expression after the topical administration of substance P to human nasal mucosa. The role of substance P in nasal allergy. *J Immunol* 1993 151:4391-8.
51. Skoner DP. Complications of allergic rhinitis. *J Allergy Clin Immunol* 2000;105:S605-S9.
52. Bachert C, Hormann K, Mosges R, Rasp G, Riechelmann H, Müller R, et al. An update on the diagnosis and treatment of sinusitis and nasal polyposis. *Allergy* 2003;58:176-91.
53. Rachelefsky GS. National guidelines needed to manage rhinitis and prevent complications. *Ann Allergy Asthma Immunol* 1999;82:296-305.
54. Braunstahl GJ, Fokkens W. Nasal involvement in allergic asthma. *Allergy* 2003;58:1235-43.

55. Bousquet J, Vignola AM, Demoly P. Links between rhinitis and asthma. *Allergy* 2003;58:691-706.
56. Togias A. Unique mechanistic features of allergic rhinitis. *J Allergy Clin Immunol* 2000;105:S599-S604.
57. Bousquet J, Van Cauwenberge P. A critical appraisal of 'evidence-based medicine' in allergy and asthma. *Allergy* 2004;59:12-20.
58. International Consensus Report on Diagnosis and Management of Rhinitis. International Rhinitis Management Working Group. *Allergy* 1994;49(19 Suppl):1-34.
59. Woodcock A, Forster L, Matthews E, Martin J, Letley L, Vickers M, et al. Control of exposure to mite allergen and allergen-impermeable bed covers for adults with asthma. *N Engl J Med* 2003;349:225-36.
60. Tripathi A, Patterson R. Impact of allergic rhinitis treatment on quality of life. *Pharmacoeconomics* 2001;19:891-9.
61. The Allergy Report. *The American Academy of Allergy, Asthma & Immunology*, 2000.
62. Naclerio RM. Allergic rhinitis. *N Engl J Med* 1991;325:860-9.
63. Nathan RA. Pharmacotherapy for allergic rhinitis: a critical review of leukotriene receptor antagonists compared with other treatments. *Ann Allergy Asthma Immunol* 2003;90:182-91.
64. Meltzer EO. Role for cysteinyl leukotriene receptor antagonist therapy in asthma and their potential role in allergic rhinitis based on the concept of 'one linked airway disease'. *Ann Allergy Asthma Immunol* 2000;84:85-7.
65. Storms WW. Minimal persistent inflammation, an emerging concept in the nature and treatment of allergic rhinitis: the possible role of leukotrienes. *Ann Allergy Asthma Immunol* 2003;91:131-40.
66. Corey JP, Houser SM, Ng BA. Nasal congestion: a review of its etiology, evaluation, and treatment. *Ear Nose Throat J* 2000;79:690-3.
67. Bousquet J, Demoly P, Michel FB. Specific immunotherapy in rhinitis and asthma. *Ann Allergy Asthma Immunol* 2001;1:38-42.
68. Malling H. Immunotherapy as an effective tool in allergy treatment. *Allergy* 1998;53:461-72.

69. Borchers A, Keen C, Gershwin M. Fatalities following allergen immunotherapy. *Clin Rev Allergy Immunol* 2004;27:147-58.
70. Umland SP, Schleimer RP, Johnston SL. Review of the molecular and cellular mechanisms of action of glucocorticoids for use in asthma. *Pulm Pharmacol Ther* 2002;15:35-50.
71. Leung DY, Bloom JW. Update on glucocorticoid action and resistance. *J Allergy Clin Immunol* 2003;111:3-22.
72. Umland SP, Nahrebre DK, Razac S, Beavis A, Pennline KJ, Egan RW, et al. The inhibitory effects of topically active glucocorticoids on IL-4, IL-5, and interferongamma production by cultured primary CD4+ T cells. *J Allergy Clin Immunol* 1997;100:511-19.
73. Ciprandi G, Tosca MA, Passalacqua G, Canonica GW. Intranasal mometasone furoate reduces late-phase inflammation after allergen challenge. *Ann Allergy Asthma Immunol* 2001;86:433-8.
74. Weiner JM, Abramson MJ, Puy RM. Intranasal corticosteroids versus oral H1 receptor antagonists in allergic rhinitis: systematic review of randomised controlled trials. *BMJ* 1998;317:1624-9.
75. Yanez A, Rodrigo GJ. Intranasal corticosteroids versus topical H1 receptor antagonists for the treatment of allergic rhinitis: a systematic review with meta-analysis. *Ann Allergy Asthma Immunol* 2002;89:479-84.
76. Spangler DL, Abelson MB, Ober A, Gotnes PJ. Randomized, double-masked comparison of olopatadine ophthalmic solution, mometasone furoate monohydrate nasal spray, and fexofenadine hydrochloride tablets using the conjunctival and nasal allergen challenge models. *Clin Ther* 2003;25:2245-67.
77. Minshall E, Ghaffar O, Cameron L, O'Brien F, Quinn H, Rowe-Jones J, et al. Assessment by nasal biopsy of long-term use of mometasone furoate aqueous nasal spray (Nasonex) in the treatment of perennial rhinitis. *Otolaryngol Head Neck Surg* 1998;118:648-54.
78. Rosenblut A, Bardin PG, Muller B, Faris MA, Wu WW, Caldwell MF, et al. Long-term safety of fluticasone furoate nasal spray in adults and adolescents with perennial allergic rhinitis. *Allergy* 2007;62:1071-7.

79. Schenkel EJ, Skoner DP, Bronsky EA, Miller SD, Pearlman DS, Rooklin A, et al. Absence of growth retardation in children with perennial allergic rhinitis after one year of treatment with mometasone furoate aqueous nasal spray. *Pediatrics* 2000;105:E22.
80. Mahadevia P, Shah S, Leibman C, Kleinman L, O'Dowd L. Patient preferences for sensory attributes of intranasal corticosteroids and willingness to adhere to prescribed therapy for allergic rhinitis: A conjoint analysis. *Ann Allergy Asthma Immunol* 2004;93:345-50.
81. Bachert C, El-Akkad T. Patient preferences and sensory comparisons of three intranasal corticosteroids for the treatment of allergic rhinitis. *Ann Allergy Asthma Immunol* 2002;89:292-7.
82. Meltzer EO, Bardelas J, Goldsobel A, Kaiser H. A preference evaluation study comparing the sensory attributes of mometasone furoate and fluticasone propionate nasal sprays by patients with allergic rhinitis. *Treat Respir Med* 2005;4:289-96.
83. Clement PA. Committee report on standardization of rhinomanometry. *Rhinology* 1984;22:151-5.
84. Schumacher MJ. Rhinomanometry. *J Allergy Clin Immunol* 1989;83:711-8.
85. Bunnag C, Jareoncharsri P, Dachpunpour P, Vitavasiri A. Nasal airway resistance in asymptomatic Thai population. *Siriraj Hosp Gaz* 1995;47:721-5.
86. Cole P. Biophysics of nasal airflow: a review. *Am J Rhinol* 2000;14:245-9.
87. Meltzer EO, Jalowayski AA, Orgel HA, Harris AG. Subjective and objective assessments in patients with seasonal allergic rhinitis: Effects of therapy with mometasone furoate nasal spray. *J Allergy Clin Immunol* 1998;102:39-49.
88. Flanagan P, Eccles R. Spontaneous changes of unilateral nasal airflow in man. A re-examination of the 'nasal cycle'. *Acta Otolaryngol* 1997;117:590-5.
89. Rundcrantz H. Posture and congestion of nasal mucosa allergic rhinitis. *Acta Otolaryngol* 1969;58:281-7.
90. Cole P, Forsyth R, Haight JS. Effects of cold air and exercise on nasal patency. *Ann Otol Rhinol Laryngol* 1983;92:196-8.

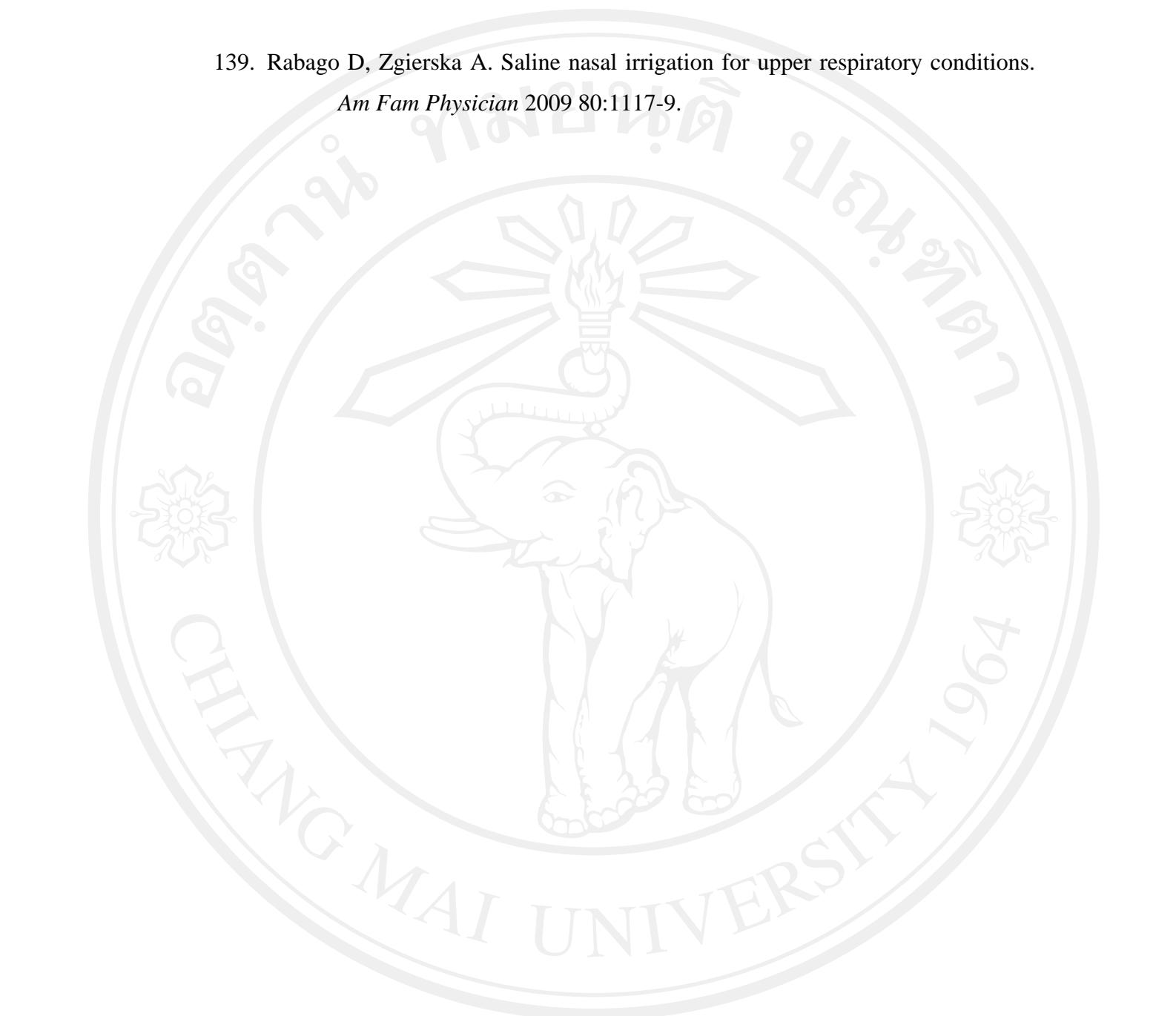
91. Meltzer EO, Orgel HA, Bronsky EA, Furukawa CT, Grossman J, LaForce CF, et al. A dose-ranging study of fluticasone propionate aqueous nasal spray for seasonal allergic rhinitis assessed by symptoms, rhinomanometry, and nasal cytology. *J Allergy Clin Immunol* 1990;86:221-30.
92. Howarth PH. The cellular basis for allergic rhinitis. *Allergy* 1995;50:6-10.
93. Fokkens WJ, Godthelp T, Holm AF, Blom H, Klein-Jan A. Allergic rhinitis and inflammation: the effect of nasal corticosteroid therapy. *Allergy* 1997;52:29-32.
94. Harold S. Mechanisms of intranasal steroids in the management of upper respiratory allergic diseases. *J Allergy Clin Immunol* 1999;104:S138-43.
95. Lans DM, Alfano N, Rocklin R. Nasal eosinophilia in allergic and nonallergic rhinitis: usefulness of the nasal smear in the diagnosis of allergic rhinitis. *Allergy Proc* 1989;10:275-80.
96. Stephen JG. Mast cells and basophils. *Curr Opin Hematol* 2000; 7:32-9.
97. Rasp G, Hochstrasser K. Tryptase in nasal fluid is a useful marker of allergic rhinitis. *Allergy* 1993;48:72-4.
98. Naclerio RM, Proud D, Togias AG, Adkinson NF, Meyers DA, Kagey-Sobotka A, et al. Inflammatory mediators in late antigen induced rhinitis. *N Engl J Med* 1985;313:65-70.
99. Borres MP, Irander K, Björkstén B. Metachromatic cells in nasal mucosa after allergen challenge. *Allergy* 1990;45:98-103.
100. Connell JT. Nasal disease: mechanisms and classification. *Ann Allergy* 1983;50:227-35.
101. Pelikan Z, Pelikan-Filipek M. Cytologic changes in the nasal secretions during the late nasal response. *J Allergy Clin Immunol* 1989;83:1068-79.
102. Wilson NW, Jalowayski AA, Hamburger RN. A comparison of nasal cytology with sinus x-rays for the diagnosis of sinusitis. *Am J Rhinol* 1988;2:55-9.
103. Gordon S. *Macrophages and the Immune Response*, 4th ed., Chapter 15. Lippincott Raven: RI, USA. 1999:533-45.
104. Keshav S, Chung LP, Gordon S. Macrophage products in inflammation. *Diagn Microbiol Infect Dis* 1990;13:439-47.

105. Wilson K. Wound healing: the role of macrophages. *Nurs Crit Care* 1997;2:291-6.
106. Doherty TM. T-cell regulation of macrophage function. *Curr Opin Immunol* 1995;7:400-4.
107. Juliusson S, Bachert C, Klementsson H, Karlsson G, Pipkorn U. Macrophages on the nasal mucosal surface in provoked and naturally occurring allergic rhinitis. *Acta Otolaryngol Stockh* 1991;111:946-53.
108. Romagnani S. Regulation of the development of type 2 T-helper cells in allergy. *Curr Opin Immunol* 1994;6:838-46.
109. Lichtman AH, Abbas AK. T-cell subsets: recruiting the right kind of help. *Curr Biol* 1997;7:R242-4.
110. Sallusto F, Lanzavecchia A, Mackay CR. Chemokines and chemokine receptors in T-cell priming and Th1/Th2-mediated responses. *Immunol Today* 1998;19:568-74.
111. Pawankar RU, Okuda M, Okubo K, Ra C. Lymphocyte subsets of the nasal mucosa in perennial allergic rhinitis. *Am J Respir Crit Care Med* 1995;152:2049-58.
112. Durham SR, Ying S, Varney VA, Jacobson MR, Sudderick RM, Mackay IS, et al. Cytokine messenger RNA expression for IL-3, IL-4, IL-5, and granulocyte/macrophage-colony-stimulating factor in the nasal mucosa after local allergen provocation: relationship to tissue eosinophilia. *J Immunol Today* 1992;148:2390-4.
113. Durham SR, Gould HJ, Hamid QA. Local IgE production in nasal allergy. *Int Arch Allergy Immunol* 1997;113:128-30.
114. Salter M, Biggadike K, Matthews JL, West MR, Haase MV, Farrow SN, et al. Pharmacological properties of the enhanced-affinity glucocorticoid fluticasone furoate in vitro and in an in vivo model of respiratory inflammatory disease. *Am J Physiol* 2007;293:L660-L7.
115. Valotis A, Hogger P. *Human receptor kinetics and tissue affinity of the enhanced affinity glucocorticoid fluticasone furoate (GW685698X)*. XXV Congress of the European Academy of Allergology and Clinical Immunology, Vienna, Austria, June 10-14, 2006.

116. Corren J. Intranasal corticosteroids for allergic rhinitis: how do different agents compare?. *J Allergy Clin Immunol* 1999;104:S144-S9.
117. Derendorf H, Meltzer EO. Molecular and clinical pharmacology of intranasal corticosteroids: clinical and therapeutic implications. *Allergy* 2008;63:1292-300.
118. Nasonex [package insert]. Kenilworth, NJ: Schering Corporation, 2005.
119. Berkowitz RB, Roberson S, Zora J, Capano D, Chen R, Lutz C, et al. Mometasone furoate nasal spray is rapidly effective in the treatment of seasonal allergic rhinitis in an outdoor (park), acute exposure setting. *Allergy Asthma Proc* 1999;20:167-72.
120. Anolik R, Pearlman DS, Teper A, Gates D. Mometasone furoate improves nasal and ocular symptoms of seasonal allergic rhinitis in adolescents. *Allergy Asthma Proc* 2009;30:406-12.
121. Veramyst [package insert]. Research Triangle Park, NC: GlaxoSmithKline, 2007.
122. Hughes SC, Shardlow PC, Hollis FJ, Scott RJ, Motivaras DS, Allen A, et al. Metabolism and disposition of fluticasone furoate, an enhanced-affinity glucocorticoid, in humans. *Drug Metab Dispos* 2008;36:2337-44.
123. Kaiser HB, Naclerio RM, Given J, Toler TN, Ellsworth A, Philpot EE. Fluticasone furoate nasal spray: a single treatment option for the symptoms of seasonal allergic rhinitis. *J Allergy Clin Immunol* 2007;119:1430-7.
124. Vasar M, Houle PA, Douglass JA, Meltzer EO, Silvey M, Wu W, et al. Fluticasone furoate nasal spray: effective monotherapy for symptoms of perennial allergic rhinitis in adults/adolescents. *Allergy Asthma Proc* 2008;29:313-21.
125. Biggadike K, Bledsoe RK, Hassell AM, Kirk BE, McLay IM, Shewchuk LM, et al. X-ray crystal structure of the novel enhanced-affinity glucocorticoid agonist fluticasone furoate in the glucocorticoid receptor-ligand binding domain. *J Med Chem* 2008;51:3349-52.
126. Zilstorff-Pedersen K. Quantitative measurements of the nasolacrimal reflex. *Arch Otolaryngol* 1965;81:457- 62.

127. Philip G, Baroody FM, Proud D, Naclerio RM, Togias AG. The human nasal response to capsaicin. *J Allergy Clin Immunol* 1994;94:1035-45.
128. Gilbert AN, Rosenwasser AM. Biological rhythmicity of nasal airway patency: a re-examination of the 'nasal cycle'. *Acta Otolaryngol* 1987;104:180-6.
129. Hasegawa M, Saito Y. Postural variations in nasal resistance and symptomatology in allergic rhinitis. *Acta Otolaryngol* 1979;88:268-72.
130. Miljeteig H, Haight JS, Cole P. Nasal resistance in recumbency and sleep. *Rhinology* 1995;33:82-3.
131. Wang DY, Clement P, Smitz J, De Waele M, Derde MP. Quantification of eosinophil cationic protein and eosinophils in nasal secretions of the allergen-induced nasal inflammation. *Allergol Immunopathol* 1994;22:179-83.
132. Nishioka K, Saito C, Nagano T, Okano M, Masuda Y, Kuryama T. Eosinophil cationic protein in nasal secretions of the patients with mite allergic rhinitis. *Laryngoscope* 1993;103:189-92.
133. Okuda M, Otsuka H. Basophilic cells in allergic nasal secretions. *Arch Otorhinolaryngol* 1977;214:283-9.
134. Lang DM, Howland WC, Stevenson DD. Sensitivity and features of nasal cytology in diagnosis of allergic (IgE mediated) rhinitis [abstract]. *Ann Allergy Asthma Immunol* 1988;60:176.
135. Amin K, Rinne J, Haahtela T, Simola M, Peterson CG, Roomans GM, et al. Inflammatory cell and epithelial characteristics of perennial allergic and nonallergic rhinitis with a symptom history of 1 to 3 years' duration. *J Allergy Clin Immunol* 2001;107:249-57.
136. Venge P. Eosinophil and neutrophil granulocytes. *Allergy* 1993;48:39-47.
137. Meltzer EO. Formulation considerations of intranasal corticosteroids for the treatment of allergic rhinitis. *Ann Allergy Asthma Immunol* 2007;98:12-21.
138. Berger W, Godfrey JW, Grant AC, Slater AL, Broughton SJ. Fluticasone furoate (FF) nasal spray: development of a next-generation delivery system for allergic rhinitis [abstract no. 907]. *J Allergy Clin Immunol* 2007;119:S231.

139. Rabago D, Zgierska A. Saline nasal irrigation for upper respiratory conditions.
Am Fam Physician 2009; 80:1117-9.



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright © by Chiang Mai University
All rights reserved