

REFERENCES

Antune MB, Gudi DA and Cohen NA (2009): Epithelium, Cilia and mucus their importance in chronic rhinosinusitis. Immunology and allergy clinics of North America, 29, 4:1-10.

Armengot M and Basterra J (1991): Nasal mucociliary function in the normal newborn. International journal of pediatric otorhinolaryngology, 22:109-113.

Aygun N and Zinreich SJ (2010): Radiology of the nasal cavity and paranasal sinuses. In: Flin PW (Editor-in-chief): Cummings otolaryngology head & neck surgery. 5th Edition, Mosby Elsevier (Philadelphia-USA), ch.44:1922-1972.

Ballenger JJ (2003): Anatomy and physiology of the Nose and Paranasal sinuses. In: Snow JB and Ballenger JJ (editors): Ballenger's otorhinolaryngology head and neck Surgery. 16th Edition, BC Decker (Spain), Ch.26:547-560.

Braimana A, Prielb Z (2008): Efficient mucociliary transport relies on efficient regulation of ciliary beating. Respiratory Physiology & Neurobiology, 163:202-207.

Chung SK, Dhong HJ, Na DG (1999): Mucus circulation between accessory and natural ostium of maxillary sinus. The Journal of Laryngology and Otology, 113:865-867.

Clemente MP (2005): Surgical anatomy of the paranasal sinus. In: Levine HL and Clemente MP: Sinus surgery: endoscopic and microscopic approaches, Thieme Medical Publishers (New York-USA), Ch.1:1-56.

Cohen NA (2006): Sinonasal mucociliary clearance in health and disease. Annals of otology, rhinology & laryngology, 196:20-26.

Cole P (1998): Physiology of the Nose and Paranasal Sinuses. Clinical reviews in allergy and immunology, 16:25-54.

Dudek RW (2001): head and neck. In: Dudek RW: High-Yield embryology. 2nd Edition, Lippincott Williams & Wilkins, Ch. 11: 60-68.

Dark-Lee A (2008): physiology of the nose and paranasal sinuses. In: Michael Glesson (Editor-in-chief): Scott-Brown's Otorhinolaryngology, head and neck surgery. 7th Edition, Hodder Arnold (Britain), Ch.106:1355-1371.

Farber NE, Pagel PS and Warltier DC (2009): Pulmonary pharmacology. In: Miller RD (Editor-in-Chief): Miller's Anesthesia. 7th edition, Elsevier, Ch.22:561-594.

Ho JC, Chan KN, Hu WH, Lam WK, Zheng L, Tipoe GL, Sun J, Leung R and Tsang KW (2001): The effect of aging on nasal mucociliary clearance, beat Frequency, and ultrastructure of respiratory cilia. American journal of respiratory and critical care medicine, 163:983-988.

Huizing EH and de Groot JAM (2003): Functional reconstructive nasal surgery. Thieme medical publishers (New York- USA), Ch.4:46-56.

Jang YJ, Myong N, Park KH, Koo TW and Kim H (2002): Mucociliary transport and histologic characteristics of the mucosa of deviated nasal septum. Arch otolaryngology head neck surgery, 128:421-424.

Jog M and McGarry GW (2003): How frequent are accessory sinus ostia? The journal of laryngology & otology, 117:270-272.

Jones N (2001): The nose and paranasal sinuses physiology and Anatomy. Advanced drug delivery reviews, 51:5-19.

Kane KJ (1997): Recirculation of mucus as a cause of persistent sinusitis. American journal of rhinology, 11:361-369.

Kumar H, Choudhry R and Kakar S. (2001): Accessory maxillary ostia: Topography and clinical application. Journal of the Anatomical Society of India, 50:3-5.

Lale AM, Mason JDT and JONES N (1998): Mucociliary transport and its assessment: a review. Clinical otolaryngology, 23: 277-285.

Lee SS, Jung IH, Mo JH, Yoo CG., Lee CH, Yi WJ and Rhee CS (2004): Ciliary Beat Frequency in the airways of humans: Influences of lidocaine, age, sex and Smoking. Journal of rhinology, 11:12-17.

Matthews BL and Burke AJC (1997): Recirculation of mucus via accessory ostia causing chronic maxillary disease. Otolaryngology head and neck surgery, 117:422-423.

Mehta D. and M.Ralph Jr. W. (2006): Surgical anatomy of the nose. In: R.Van De Water T. and Staecker H. (editors): Otolaryngology basic science and clinical review. Thieme medical publishers (New York - USA), Ch.38:455-471.

Mladina R, Skitareli N and Casale M (2010): Two holes syndrome (THS) is present in more than half of the postnasal drip patients? Acta Otolaryngologica, 130:1274–1277.

Mladina R, Vuković K and Poje G (2009): The two holes syndrome. American Journal of Rhinology & Allergy, 23, 6:602-604.

Mygind N, Dahl R (1998): Anatomy, physiology and function of the nasal cavities in health and disease. Advanced drug delivery reviews, 29: 3–12.

Narozny W, Sicko Z, Stankiewicz C, Przewozny T and Pegiel-Sicko E (2002): The effect of hyperbaric oxygen on nasal mucociliary transport. Clinical otolaryngology, 27:140–146.

Pandya VK and Tiwari RS (2006): Nasal mucociliary clearance in health and disease. Indian journal of otolaryngology and head and neck surgery, 58:332-334.

Quraishi MS, Jones NS and Mason J (1998): The rheology of nasal mucus: a review. *Clinical otolaryngology*, 23:403-413.

Soane RJ, Carney AS, Jones NS, Frier M, Perkins AC, Davis SS and Illum L (2001): The effect of the nasal cycle on mucociliary clearance. *Clinical otolaryngology*, 26:9-15

Stammberger H and Lund VJ (2008): Anatomy of the nose and paranasal sinuses. In: Michael Glessson (editor-in-chief): *Scott-Brown's Otorhinolaryngology, head and neck surgery*. 7th edition, Hodder Arnold (Britain), Ch.104:1315-1343.

Stanek A, Brambrink AM, Latorre F, Bender B and Kleemann PP (1998): Effects of normobaric oxygen on ciliary beat frequency of human respiratory epithelium. *British journal of anaesthesia*, 80:660-664.

Stanley PJ, Wilson R, Greenstone MA, William L, Cole PJ (1986): Effect of cigarette smoking on nasal mucociliary clearance and ciliary beat frequency. *Thorax*, 41:519-523.

Stierna PLE (2001): Physiology, mucociliary clearance and neural control. In: Kennedy DW (editor-in-chief): *Diseases of the sinuses diagnosis and management*. B.C. Decker (Hamilton -London), Ch.3b:35-45.

Torkkeli T, Nuutinen J and Rautiainen M (1997): Clinical relevance of tubulus anomalies and compound cilia. *Acta Oto-Laryngologica*, 529(S):140-143.

Toskala E, Rautiainen M and Nuutinen J (1994): Scanning and transmission electron microscopic findings in cilia from human nasal turbinate and sinus mucosa following respiratory infection. *European Archives Otorhinolaryngology*, 251:76-79.

Ural A, Oktemer TK, Kizil Y, Ileri F and Uslu S (2009): Impact of isotonic and hypertonic saline solutions on mucociliary activity in various nasal pathologies: clinical study. *The Journal of Laryngology & Otology*, 123:517-521.

Voigt EP and Edelsten DR (2006): Nasal and paranasal sinuses physiology. In: Van De Water TR and Staecker H (editors): *Otolaryngology basic science and clinical review*. Thieme medical publishers (New York - USA), ch.39:P.472-484.

Walsh WE and Kern RC (2006): Sinonasal anatomy, function and evaluation. In: Bailey BJ (editor-in-chief): *Head & Neck Surgery - Otolaryngology*. 4th edition, lippincott williams & wilkins, Ch.22:307-318.

Watelet JB and Cauwenberge PV (1999): Applied anatomy and physiology of the nose and paranasal sinuses. *Allergy*, 54(S.57):14-25.

Yanagisava E, Yanagisava K, Christmas DA and Yanagisava R (2004): Endoscopic views of the ostia and ostia like structures in the lateral nasal wall. *Ear Nose Throat Journal*, 83:446-448.

Zhang L, Han D, Song X, Wang K and Wang H (2008): Effect of oxymetazoline on healthy human nasal ciliary beat frequency measured with high-speed digital microscopy and mucociliary transport time. *Annals of otology, rhinology & laryngology*, 117:27-133.