

References

Abramason, M. and Harker, L.A. (1993): Physiology of the nose. *Otolaryngol Clin North Am*, 6(3):623:635.

Ache, B.W. and Zhainazarov, A. (1995): Dual second-messenger pathways in olfactory transduction (review). *Curr Opin Neurobiol*; 5:46.

Ahlstrom, R. et al. (1996): Impaired odor perception in tank cleaners. *Scand J Work Environ Health*; 12:57.

Akerlund, A.; Bende, M. and Murphy, C. (1995): Olfactory threshold and nasal mucosal changes in experimentally induced common cold. *Acta Otolaryngol (Stockh)*; 88:115.

Amoore, J.E. (1999): A plan to identify most of the primary odors. In: *Olfaction and Taste, Proceedings of the Third International Symposium*, New York, Rockefeller University Press.

Amsterdam, J.D. et al. (1997): Taste and smell perception in depression. *Biol Psychiatry*; 22:48.

Apter, A.J. et al. (1995): Allergic rhinitis and olfactory loss. *Ann Allergy Asthma Immunol*; 275:311.

Arredondo de Arreola G. et al (1996): Otolaryngol Head Neck Surg. 1996 Jan;114(1):54-60.

Aurelia Richards and Michael Gleeson (1999): Recent advances: Otolaryngology; 319;1110-1113 *BMJ*

Bang, F.B. and Bang, B.G. (1990): Defense mechanisms against viruses in the upper respiratory tract. *Ann Otol Laryngol*; 79:489-494.

Babatola, F. and Eccles, R. (1996): Nasal vasomotor responses in man in breath holding and hyperventilation recorded by means of intranasal balloons. *Rhinology*; 24: 271-276.

Benignus, V.A. and Prah, J.D. (1999): Flow thresholds on non-odorous air through the human naris as a function of temperature and humidity. *Percept Psychophys*; 270:356.

Benniger, M.S. (1992): Rhinitis, sinusitis, and their relationships to allergies. *Am J Rhinol*; 6:37.

Bignetti, E. et al. (1995): Purification and characterization of an odorant-binding protein from cow nasal tissue. *Eur J Biochem*; 149:227.

Bolger, W.E. (2001): anatomy of the paranasal sinuses. In : *Diseases of the sinuses: Diagnosis and management*. Kennedy D.W., Bolger W.E. and Zinreich S.J. (eds). B.C. Decker (Pub.). Published in Hamilton and London; 1:1-11.

Bouvet, J.F.; Delaleu, J.C. and Holley, A. (2001): The activity of olfactory receptor cells is affected by acetylcholine and substance P. *Neurosci Res*; 5:21.

Bramley, P. (1992): Long term effects of facial injuries. *Proc R Soc Med*; 65:91.

Briand, L. et al. (2002): Evidence of an odorant-binding protein in the human olfactory mucus: Location, structural characterization, and odorant-binding properties. *Biochemistry*; 41:72.

Briand, L.; Nesopoulous, C. and Perez, V. (2000): Ligand-binding properties and structural characterization of a novel rat odorant-binding protein variant. *Eur J Biochem*; 267:307.

Bridger, G.P. and Proctor, D.F. (1970): Maximum nasal inspiratory flow and nasal resistance. *Annals Otorhinolaryngology*; 79: 481-488.

Burdach, K.J. and Doty, R.L. (1997): The effect of mouth movements, swallowing, and spitting on retronasal odor perception. *Physiol. Behav*; 41:53.

Cain, W.S. et al. (2003): Clinical evaluation of olfaction. *Am J Otolaryngol*; 41:53.

Canter, R.J. (1996): A noninvasive method of demonstrating the nasal cycle using flexible liquid crystal thermography. *Clinical Otolaryngology*; 11: 329-336.

Christine Cadena, Anosmia: Loss of Smell Sensation, Congenital, Temporary and Permanent Complications (Oct 20, 2007).

Cole, P.; Ayimanimitis, A. and Ohki, M. (1989): Anterior and posterior rhinomanometry. *Rhinology*; 257:262.

Cole, P.; Roithman, R. and Roth, Y. et al. (1997):

Measurement of airway patency: A manual for users of the Toronto systems and others interested in nasal patency measurements. Annals Publishing Company, St. Louis; 8-9.

Cooper, H.M. et al. (2004): Neuroanatomical pathways linking vision and olfaction in mammals. Psychoneuroendocrinology; 19:63.

Cornsweet, T.N. (1998): The staircase method in psychophysics. Am J Psychol; 75:85.

Corwin, J.;Loury, M. and Gilbert, A.N. (1995):

Workplace, age, and sex as mediators of olfactory function data from the National Geographic Smell Survey. J Gerontol B Psychol Sci Soc Sci; 50:79.

Courtiss, E.H.; Goldwyn, R.M. and O'Brien, J.J.

(1993): Resection of obstructing inferior turbinates. Plastic Reconstructive Surgery; 162:249.

Cullen, M.M. and Leopold, D.A. (1999): Disorders of smell and taste. Med. Clin. North Am; 57:61.

Dallimore, N. and Eccles, R. (1997): Changes in human nasal resistance associated with exercise, hyperventilation and rebreathing; *Acta Otolaryngologica*; 416:421.

Dalziel K, Stein K, Round A, Garside R, Royle P. Systematic review of endoscopic sinus surgery for nasal polyps. *Health Technol Assess* 2003; 7(17).

Daniel G. Becker, M.D. Functional Endoscopic Sinus Surgery (FESS) (May 2002).

Davidson, T.M. and Murphy,C. (1997): Rapid clinical evaluation of anosmia: The alcohol sniff test. *Arch Otolaryngol Head Neck Surg*; 123:159.

Doty, R.L. et al. (1994): Tests of human olfactory function: Principal components analysis suggests that most measure a common source of variance. *Percept Psychophys*; 56:107.

Doty, R.L. (1995): A review of olfactory dysfunction in man. *Am J Otolaryngol*; 1:11.

Doty, R.L. and Frye, R. (1996): Influence of nasal obstruction on smell function. *Otolaryngol Clin North Am*; 22:37.

Doty, R.L. et al. (1998): Intranasal trigeminal stimulation from odorous volatiles; Psychometric responses from anosmic and normal humans. *Physiol Behav*; 23:73.

Doty, R.L. et al. (2004): Smell identification ability: Changes with age. *Science*; 226:287.

Doty, R.L. et al. (2004): University of Pennsylvania Smell Identification Test: A rapid quantitative olfactory function test for the clinic. *Laryngoscope*; 94:176.

Doty, R.L.; Shaman, P. and Dann, M. (2004): Development of the University of Pennsylvania Smell Identification Test: A standardized microencapsulated test of olfactory function. *Physiol Behav*; 32:89.

Dreke-Lee, A. (1997): The physiology of the nose and paranasal sinuses. In: *Scott Browns Otolaryngology*, 7th edition. Kerr G. Alan (editor), publisher Butterworths Great Britain; 1-6.

Duncan, H.J. and Seiden, A.M. (1995): Long-term follow-up of olfactory loss secondary to head trauma and upper respiratory tract infection. Arch Otolaryngol Head Neck Surg; 121:183.

Ebba Heden Blomqvist (2004): Evaluation of medical and or surgical treatment of anosmia and hyposmia in association with inflammatory disease of the upper airway; 13:49.

Eccles, R.; Jawad, M.S. and Morris, S. (1996): Olfactory and trigeminal thresholds and nasal resistance to airflow. Acta Otolaryngol (Stockh); 108:268.

Eccles, R. (1992): Neurological and pharmacological considerations. In: The Nose, Upper Airway Physiology and the Atmospheric Environment. Proctor I.F., Anderson I. (editors). Amsterdam Elsevier Biomedical Press; 191:214.

Eccles, R. and Jones, A.S. (1990): The effect of menthol on nasal resistance to airflow. Journal Laryngology and Otology; 97: 705-709.

Edward W Chang, MD, DDS, et al. (2008): Nose Anatomy Feb 13, 2008; 56: 405-410.

Engen, T. (2002): The perception of odors. New York. Academic press; 17-22.

Feldman, J.I.; Wright, H.N. and Leopold, D.A. (1996): The initial evaluation of dysosmia. Am J Otolaryngol; 7:43.

Feron, F. et al. (1998): New techniques for biopsy and culture of human olfactory epithelial neurons. Arch Otolaryngol Head Neck Surg August; 124:161

Fikentscher, R. and Mauuller, H. (1995): Traumatische riechstörungen. Z Artzl Fortbild; 79:104.

Fikentscher, R. and Seeber, H. (1999): Occupations and the sense of smell. Z Gesamte Hyg; 35:78.

Fisher, E.W. (1997): Acoustic rhinometry: Review Clin Otolaryngol; 307:317.

Fisher, E.W.; Boreham, A.D. and Mech, M.I. (1995): Improving the reproducibility of acoustic rhinometry: A customized stand giving control of height and angle. J. Laryngol. Otol.; 536:537.

Fisher, E.W.; Daly, N.J. and Morris, D.P. et al.

(1994): Experimental studies of the resolution of acoustic rhinometry. *Acta Otolaryngol*; 647:650.

Frye, R.E.; Schwartz, B.S. and Doty, R.L. (1990):

Dose-related effects of cigarette smoking on olfactory function. *JAMA*; 263:283.

Fujii, K.; Chambers, S.M. and Rhoton, A.L. (1997):

Neurovascular relationships of the sphenoid sinus: A microsurgical study. *J. Neurosurg*; 13-39.

Fukami M.; Yanagi K.; Asai K.; Ohtori N., and

Moriyama H (1995): Indications for endoscopic sinus surgery. A clinical study on patients with a poor post-operative course; *Nippon Jibiinkoka Gakkai Kaiho*. 98(3):402-9.

Furstenberg, A.C.; Crosby, E. and Farrior, B. (1993):

Neurologic lesions which influence the sense of smell. *Arch Otolaryngol*; 48:52.

Getchell, T.V.; Margolis, F.L. and Getchell, M.L.

(1999): Perireceptor and receptor events in vertebrate olfaction. *Prog Neurobiol*; 239:317.

Getchell, M.L.; Zielinski, B. and Getchell, T.V.

(2002): Odorant and autonomic regulation of secretion in the olfactory mucosa.

In: Margolis F, Getchell T.V., editors: Molecular neurobiology of the olfactory system. New York, Plenum Press.

Getchell, T.V. (1997): Analysis of intracellular recordings from salamander olfactory epithelium. Brain Res; 123:275.

Getchell, T.V. (1996): Functional properties of vertebrates olfactory neurons. Physiol Rev; 66:72.

Giger,Roland; Landis,BasileNicolas; Zheng, Chunquan; Malis,Didier-David; Ricchetti, Alma; Kurt, Anne-Marie; Morel, Denis R.; Lacroix, Jean Silvain
Volume 17, Number 6, November-December 2003 , pp. 327-333(7)

Gilchrist, A.G. (1993): Rehabilitation after laryngectomy. Acta Otolaryngol; 75:115.

Glen Porter, MD et al (2002): Paranasal Sinus Anatomy and Function Jan 9, 2002

Goldberg, R.A. (1999): Diseases of the lacrimal and orbital system. In: Clinical Guide to Comprehensive Ophthalmology. Lee D. and Higginbotham E. (eds.). Thieme (Pub.). Published in New York and Stuttgart; 5:107-125.

Goldstein, B.J. et al. (2002): Transplantation of multipotent progenitors from the adult olfactory epithelium. Neuroreport; 59:161.

Goodspeed, R.B. et al. (1996): Corticosteroids in olfactory dysfunction. In: Meiselman H.L., Rivlin R.S., editors: Clinical measurement of taste and smell. New York, MacMillan Publishing.

Gordon, A.; McAffery, T. and Kern, E. (2005): Anatomy of the nose. Otolaryngol-Head and Neck Surg, Cummings, C.W., Fredrikson, J.M., Harker, L.A., Krause, C.J. and Schuller, D.E.(Eds.), 3rd edition, Mosby Company; 2(50): 901:906.

Gosepath, Jan; Belafsky, Peter; Kaldenbach, Titus; Rolfe, Kevin W.; Mann, Wolf J.; Amedee, and Ronald G. (2000): The Use of Acoustic Rhinometry in Predicting Outcomes After Sinonasal Surgery. American Journal of Rhinology, Volume 14, Number 2, pp. 97-100(4)

Graham, C.S. et al. (1995): Taste and smell losses in HIV infected patients. Physiol Behav; 58:87.

Graziadei, P.P.C. (1994): The olfactory mucosa of vertebrates. IN: Beidler L.M., editor: Handbook of Sensory Physiology, chemical senses. Part I. Berlin, New York, Springer-Verlag;4.

Graziadei, P.P.C. (1999): Cell dynamics in the olfactory mucosa. In: The Ultra-Structure of Sensory Organs. New York, Elsevier Science Publishing.

Griff. I.C. and Reed, R.R. (1995): The genetics of olfaction (review). Curr Opin Neurobiol; 5:46.

Grymer, L. and Melsen, B. (1999): The morphology of the nasal septum in identical twins. Laryngoscope; 99: 642-646.

Hagin, P.J. (1997): Post-traumatic anosmia. Arch Otolaryngol; 85:107.

Haight, J. And Cole, P. (1993): The site and function of the nasal valve. Laryngoscope; 93: 29-55.

Hamilton, J.W.; McRae, R.D. and Philips, D.E. et al. (2005): The accuracy of acoustic rhinometry using a pulse train signal. Clin. Otolaryngol; 20: 279-282.

Haring, H.G. (1994): Vapor pressure and Raoult's law deviations in relation to odor enhancement and suppression. In: Human Responses to Environmental Odors. New York, Academic Press.

Hasegawa, M. (1992): Nasal cycle and postural variations in nasal resistance. Annals Oto, Rhino, Laryngol; 112:114.

Heilmann, S. et al. (2002): Clinical assessment of retronasal olfactory function. Arch Otolaryngol Head Neck Surg; 188:191.

Hendriks, A.P.J. (1998): Olfactory dysfunction.
Rhinology; 26:29.

Henkin (1994): Drug-induced taste and smell disorders:
Incidence, mechanisms and management related primarily
to treatment of sensory receptor dysfunction (review).
Drug Saf; 11:31.

Henkin, R.I. et al. (1996): A double blind study of the
effects of zinc sulfate on taste and smell. Am J Med Sci;
272:285.

Heywood, P.G. and Costanzo, R.M. (2006): Identifying
normosmies: A comparison of two populations. Am J
Otolaryngol; 157:194.

Hilberg, O.; Jensen, F.T. and Pederson, O.F. (1998):
Nasal airway geometry: Comparison between acoustic
reflections and magnetic resonance scanning. J. Appl.
Physiol.; 75(6): 2811-2829.

**Hilberg, O.; Lylvolm, B. And Michelson, A. et al.
(2000):** Acoustic reflections during rhinometry: Spatial
resolution and sound loss. J. Appl. Physiol.; 84:103.

Hindere, K.H. (1993): Diagnosis of anatomic obstruction of airway. Arch. Otolaryngol; 660:662.

Holbrook, Eric H. MD; Leopold, Donald A.M.D, FACS (2003): Current opinion in otolaryngology& Head & Neck surgery. 11(1): 54-60.

Hornung, D.E. and Mozell, M.M. (1997): Accessibility of odorant molecules to the receptors. In: Cagen R.H. Kare M.R., editors: Biochemistry of taste and olfaction. New York, Academic Press.

Hotchkiss, W.T. (1996): Influence of prednisone on nasal polyposis with anosmia. Arch Otolaryngol; 64:78.

Huang, Z.L.; Wang, D.Y. and Zhang, P.C. (2005): Evaluation of nasal cavity by acoustic rhinometry. In:Chinese, Malay and Indian Ethnic groups. Acta Otolaryngol; 844:848.

Hughes, B. (1994): The results of injury to special parts of the brain and skull. In: Rowbottom G.F., editor: Acute injuries to the head, ed 4, London. Churchill Livingstone.

Ingetstedt, S. (1990): Humidifying capacity of the nose. Ann Otol Laryngol; 79:475-480.

Jacobi,G.; Rtiz, A. and Emrich, R. (1996): Cranial nerve damage after paediatric head trauma: A long-term follow-up study of 741 cases. Acta Paediatr Hung; 27:73.

Jafek, B.W. (1999): Ultrastructure of human nasal mucosa. Laryngoscope; 93:156.

Jafek, B.W. et al. (1999): Steroid-dependent anosmia. Arch Otolaryngol Head Neck Surg; 113:147.

Jafek, B.W. et al. (2000): Congenital anosmia. Ear Nose Throat J; 69:131.

Jafek, B.W.; Murrow, B. And Johnson, E.W. (2004): Olfaction and endoscopic sinus surgery (review). Ear Nose Throat J 73:84.

James W. Fairley (2009): Functional Endoscopic Sinus Surgery. Ear nose throat J 54:57.

Jang, W.; Youngentob, S.L. and Schwob, J.E. (2003):

Globose basal cells are required for reconstitution of olfactory epithelium after methyl bromide lesion. *J Comp Neurol*; 123:260.

Jesberger, J.A. and Richardson, J.S. (1998): Brain output dysregulation induced by olfactory bulbectomy: An Approximation in the rate of major depressive disorder in humans. *Int J Neurosci*; 38:41.

Jiang, Rong-San; Huang, and Hui-Tsu (2006):

Changes in nasal resonance after functional endoscopic sinus surgery. *American Journal of Rhinology*, Volume 20, Number 4, pp. 432-437(6)

Jones, D.T. and Reed, R.R. (2008): Golf: An olfactory neuron specific G-protein involved in odorant signal transduction. *Science*; 224:290.

Jones, F.N. (1993): Olfactory absolute thresholds and their implications for the nature of the receptor process. *J Psychol*; 40:84.

Jourdan, R. et al. (1999): Spatial distribution of deoxyglucose uptake in the olfactory bulbs of rats stimulated with two different odours. Brain Res; 139:188.

K. Moriwaki, Y. Sakata; T. Noiri; T. Kamihata; Y. Kawasaki; H. Asai (1998): Olfactory Improvement after Endoscopic Sinus Surgery for Chronic Sinusitis - Endoscopic Sinus Surgery with KTP leaser; 98(2):631-7.

Kamal, I. (1999): Acoustic rhinometry in the diagnosis of nasal obstruction: An overview. Egypt J. Otolaryngol.; 16: 163-169.

Kasperbeuer, J.L. and Kern, E.B. (1987): Nasal valve physiology: Implications on nasal surgery. The Otolaryngologic Clinics of North America; 20(4): 699-719.

Kaye, J.A. et al. (1994): Neurologic evaluation of the optimally healthy oldest old. Arch Neurol; 51:120

Keleş, Nesil; Ilicali, Ömer Cenker; Değer, and Kemal (1998): Objective and Subjective Assessment of Nasal Obstruction in Patients Undergoing Endoscopic Sinus Surgery American Journal of Rhinology, Volume 12, Number 5,pp. 307-309(3)

Kennedy, D.W. and Zinreich, S.J. (1998): The functional endoscopic approach to inflammatory sinus disease: Current perspective and technique modifications. Am. J. Rhinol.;2:89-96.

Kimmelman, C. (1989): The problem of nasal obstruction. The Otolaryngologic Clinics of North America; 22(2): 253:264.

Kimmelman, C.P. (1994): The risk to olfaction from nasal surgery. Laryngoscope; 104:181.

Kimmelman; Charles P.M.D (2004): laryngoscope 104 (8) 981-988.

King, C. and Marby, L. (1993): A practical guide to the management of nasal and sinus disorders. Anatomy and Physiology. Thieme Medical Publishers, Inc, New York; 8:12.

Kittel, G. and Waller, G. (1993): Smell-improving effect of Cottle's septum operation. Z Laryngol Rhinol Otol Gens; 52:80.

Konno, A. (1992): Participation of vascular reflex in mucosal swelling in nasal allergy. *Acta Otolaryngol* (Scotch); 131:140.

Lacazette, E.; Gachon, A.M. and Pitiot, G. (2000): A novel human odorant-binding protein gene family resulting from genomic duplications at 9q34: Differential expression in the oral and genital spheres. *Hum Mol Genet*; 9:89.

Laffort, P.; Patte, F. and Etcheto, M. (1994): Olfactory coding on the basis of physiochemical properties. *Ann N.Y. Acad Sci*; 193:237.

Laing, D.G. (1992): Characterization of human behavior during odour perception. *Perception*, 169:221.

Laing, D.G. (1996): Natural sniffing gives optimum odor perception for humans. *Perception*; 12:99.

Laing, D.G. (1998): Optimum perception of odor intensity by humans. *Physiol Behav*; 34:69.

Lancet, D. (1996): Vertebrate olfactory receptor. *Annu Rev Neurosci*; 219:329.

Lazar, J. et al. (2002): Molecular and functional characterization of an odorant binding protein of the asian elephant, *Elephas maximus*: Implications for the role of lipocalins in the mammalian olfaction. *Biochemistry*; 41:117.

Lehrner, J.P.; Kryspin-Exner, I. and Vetter, N. (1995): Higher olfactory threshold and decreased odor identification ability in HIV-infected persons. *Chem. Senses*; 20:25.

Leigh, A.D. (1993): Defect of smell after head injury. *Lancet*; 1:38.

Leopold, D.A. et al. (1997): Relationship between CT scan findings and sense of smell. *Otolaryngol Head Neck Surg*.

Leopold, D.A. et al. (1997): Successful treatment of phantosmia with preservation of olfaction. *Arch Otolaryngol Head Neck Surg*; 117:140.

Leopold, D.A. et al. (1997): The relationship between nasal anatomy and human olfaction. *Chem. Senses*; 12:67.

Leopold, D.A. (1998): The relationship between nasal anatomy and human olfaction. *Laryngoscope*; 98:123.

Leopold, D.A. et al (2000): Anterior distribution of human olfactory epithelium. *Laryngoscope*; 110:178.

Levitt, H. (2006): Transformed up-down methods in psychophysics. *J Acoust Soc Am*; 49:67.

Lihuang et al., (2001): Acoustic rhinometry measurements after endoscopic sinus surgery; *Laryngoscope*; 93:71-75.

Lippmann, M. (1990): Deposition and clearance of inhaled particles in the human nose. *Ann Otol Laryngol*; 79:519:528.

Little, S.W. (1998): Management of enlarged turbinates. *Virginia M*; 430:484. Quoted after *Otolaryngology Head and Neck Surgery* 3rd edition; 42: 799-832.

Litvack J.R., Mace J., Smith T.L. (2009): Does olfactory function improve after endoscopic sinus surgery? *Otolaryngol Head Neck Surg.*;140(3):312-9.

Lygonis, C.S. (1999): Familial absence of olfaction. Heredity; 61:93.

Macrides, F. et al. (2005): Evidence for morphologically and functionally heterogeneous classes of mitral and tufted cells in the olfactory bulb. Chem Senses; 110:175.

Mair, R.G. et al. (1997): Physiological differentiation of olfactory receptor cilia during development. Neuroscience; 287:309.

Mamikoglu, B.; Houser, S.M. and cone, J.P. (2002): An interpretation method for objective assessment of nasal congestion with acoustic rhinometry. Laryngoscope; 112: 926-929.

Maran, A. and Lund, V. (1990): A basic science-investigation test. In: Clinical Rhinology. Maran A. and Lund, V. (editors). George Thiemes (Stuttgart, New York); 51:58.

Maran, A.G.D. (1999): The deviated nose and nasal airway. Journal of Royal Society of Medicine; 72:848-855.

Maran, A.G.I. and Lund, V.J. (1990): Mechanical nasal obstruction-turbinate enlargement. In: Clinical Rhinology. Maran A.G.I. and Lund V.J.(Eds). George Thiemes Verlag; 83:84.

Martinez, S.; Louisville, K.Y. and Neissen, A. et al. (1993): Nasal turbinate resection for relief of nasal obstruction. Laryngoscope; 93:871-875.

Martinkenas, L.V. (1996): Qualitative characteristics of olfactory disorders after stable nose injuries. Vestn Otorhinolaryngol; 6:43.

Masukawa, L.M.; Hedlund, B. and Shepard, G.M. (1999): Electrophysiological properties of identified cells in the in vitro olfactory epithelium of the tiger salamander. J Neuroscience; 95:128.

Mattes, R.D. et al. (2000): Dietary evaluation of patients with smell and taste disorders. Am J Clin Nutr; 51:133.

Mattes, R.D. et al. (2005): Chemosensory function and diet in HIV-infected patients. Laryngoscope; 105:162.

Matula, V.J. (1994): Correlation of nasal symptoms and signs in random sampling study. Acta Otolaryngol (Suppl); 18:48.

Mink J.P. (1920): Le nez comme voie respiratoire. Presse Otolaryngol (Belg) 481:496.

Mombaerts, P. (2001): How smell develops. Nat Neurosci; 4(suppl.):1192.

Monti-Graziadei, G.A. and Graziadei, P.P.C. (1999): Neurogenesis and neuron regeneration in the olfactory system of mammals. II. Degeneration and reconstitution of the olfactory sensory neurons after axonotomy. J Neurocytol; 84:197.

Moran, D.T. et al. (1998): The fine structure of the olfactory mucosa in man. J. Neurocytol; 11:78.

Moran D.T.; Rowley, J.C.III and Jafek, B.W. (1998): Electron microscopy of human olfactory epithelium reveals a new cell type: The microvillar cell. Brain Res; 39:53.

Mori, K. and Shepherd, G.M. (1994): Emerging principles of molecular signal processing by mitral/tufted cells in the olfactory bulb (review). Semin Cell Biol; 5:65.

Morrison, E.E. and Costanzo, R.M. (1999): Morphology of the human olfactory epithelium. J Comp Neurol; 1:97.

Moulton, D.G. and Beidler, L.M. (2000): Structure and function in the peripheral olfactory system. Physiol Rev; 1:47.

Mozell, M.M. et al. (1996): Reversal of hyposmia in laryngectomized patients. Chem. Senses; 311:397.

Naessen, R. (1997): The receptor surface of the olfactory organ (epithelium) of man and guinea pig: A descriptive and experimental study. Acta Otolaryngol; 271:335.

Ohtori N.; Fukami M., Yanagi K., Asai K., and Moriyama H. (1995): Improvement of olfactory disturbance by endoscopic endonasal surgery for chronic sinusitis. Nippon Jibiinkoka Gakkai Kaiho; 98(4):642-9.

Paik, S.I. et al. (1998): Human olfactory biopsy: The influence of age and receptor distribution. Arch Otolaryngol Head Neck Surg; 118:231.

Pallanch, J.F.; McCaffery, T.V. and Kern, F.B. (1998):

Evaluation of nasal breathing function with objective airway testing. In: Otolaryngology Head and Neck Surgery, 3rd edition, Charles Comings (editor), Mosby Yearbook, St. Lewis; 42:799-832.

Pallanch, J.F.; McCaffrey, T.V.; Kern, E.B., et al.

(2005): Evaluation of nasal breathing function with objective airway testing. In: Otolaryngology: Head and Neck Surgery. 3rd ed. CW Cummings, JM Fredrickson, LA Harker, et al,, eds. St. Louis, MO: Mosby-Year Book, Inc; 2(48): 803-809.

Patterson, P.M. and Lauder, B.A. (1998): The incidence and probable inheritance of smell blindness. J Heredity; 39:95.

Pelosi, P. (1999): Odorant-binding proteins (review). Crit Rev Biochem Mol Biol; 29:199.

Pevsner, J.; Sklar, P.B. and Snyder, S.H. (1997):

Odorant-binding protein: Localization to nasal glands and secretion. Proc Nutl Acad Aci USA; 83:94.

Pierce, J. and Halpern, B.P. (1996): Orthonasal and retronasal odorant identification based upon vapor phase input from common substances. Chem. Senses; 21:52.

Protez, A.W. (1992): Applied physiology of the nose, ed 2, St Louis, Annals Publishing.

Pryse-Phillips, W. (1991): An olfactory reference syndrome. Acta Psychiatr Scand; 47:84.

Punter, P.H. (2003): Measurements of human olfactory thresholds for several groups of structurally related compounds. Chem. Senses; 178:215.

Reed, G.F. (1991): The long-term follow-up care of laryngectomized patients. JAMA; 175:180.

Reed, R.R. (1994): The molecular basis of sensitivity and specificity in olfaction (review). Semin Cell Biol; 5:33.

Rhyoo C., Jung M.K., Ju Y.H., Yum J.H., Seo J.H., Kim M.S. (2001): Assessment of Olfactory Function after Endoscopic Sinus Surgery in Chronic Rhinosinusitis Patients and Clinical Validity of Cross-Cultural Smell Identification Test. Korean J Otolaryngol - Head Neck Surg; 44(10):1053-1059.

Ritter, R.N. (1999): Anatomy and surgical techniques. In: The paranasal sinuses. Ritter, R.N. (ed.). Mosby (Pub.). Published in Saint Louis. 3rd ed.; 2:17-33.

**Rodrigo de Paula Santos^I; Walter Habermann^{II};
Thiemo Hofmann^{III}; and Heinz Stammberger^{IV}**
(2006): Pre and post functional endoscopic sinus surgery
nasal cavity volume assessment by acoustic rhinometry.
Braz J Otorhinolaryngol.;72(4):549-53.

Roithmann, N.R.; Cole, P. and Chapnik, J. et al.
(2005): Acoustic rhinometry in the evaluation of nasal
obstruction. Laryngoscope; 105: 275-281.

Rowley, J.C.III; Moran,D.T. and Jafek, B.W. (1997):
Peroxidase backfills suggest the mammalian olfactory
epithelium contains a second morphologically distinct class
of bipolar sensory neurons: The microvillar cell. Brain Res;
387:402.

Sailer, H.F. and Landolt, A.M. (1997): A new method
for the correction of hypertelorism with preservation of
the olfactory nerve filaments. J Craniomaxillofac Surg;
15:22.

**Samuel A. Mickelsen, Michael S. Benninger (Aug.
2007):** The nose and paranasal sinuses; 15:24

Sandmark, B. et al. (1999): Olfactory function in painters exposed to organic solvents. Scand J Work Environ Health; 15:60.

Saunders, W.H. (2002): Surgery of the inferior nasal turbinate. Annal Otol Rhinol Laryngol; 91: 445-447.

Schechter, P.J. and Henkin, R.I. (1994): Abnormalities of taste and smell after head trauma. J Neurol Neurosurg Psychiatry; 37:80.

Scherer, P.W.; Hahn I.I. and Mozell, M.M. (1999): The biophysics of nasal airflow. The Otolaryngologic Clinics of North America; 22(2): 220-278.

Schiffman, S.S. (1993): Taste and smell in disease. I. N Engl J Med; 308:375.

Schiffman, S.S. (1993): Taste and smell in disease. II. N Engl J Med; 133:183.

Schwartz, B.S. et al (1999): Olfactory function in chemical workers exposed to acrylate and methacrylate vapors. Am J Public Health; 79:136.

Schwartz, D.N. et al. (2000): Improvement of olfaction in laryngectomized patients with the larynx bypass. Laryngoscope; 97:128.

Scott, A.E. (1999a): Caution urged in treating 'steroid-dependent anosmia'. Arch Otolaryngol Head Neck Surg; 109:115.

Scott, A.E. (1999b): Clinical characteristics of taste and smell disorders. Ear Nose Throat J; 68:97.

Scott, J.W. (2006): The olfactory bulb and central pathways. Experientia; 142:223.

Scott, J.W. (2007): Organization of olfactory bulb output cells and their local circuits. Ann N Y Acad Sci; 448:510.

Series, F.; Cormier, V. and Desmeules, M. et al. (1989): Influence of respiratory drive on upper airway resistance in normal men. Journal Applied Physiology; 1242:1249.

Shevrygin, B.V. (1993): Surgical intervention on the nasal septum for the purpose of improving and preserving olfaction. Zh Ushn Nosov Gorl (Kiev); 31:47.

Shevrygin, B.V. and Maniuk, M.K. (1994): Anomalies in the development of the nasal cavity in children and their treatment. Zh Ushn Nosov Gorl Bol; 6:30.

Shin, S.H.; Park, J.Y. and Sohn, J.H. (1999): Clinical value of olfactory function tests after endoscopic sinus surgery: A short term result. Am. J. Rhinol; 13: 63-66.

Singh, N.; Grewal, M.S. and Austin, J.H. (2000): Familial anosmia. Arch Neurol; 22:40.

Sito, A. and Nishihata, S. (1991): Nasal airway resistance in children. Rhinology; 149:154.

Skolnik, E.M.; Massari, F.S. and Fenta, L.T. (1996): Olfactory neurepithelioma: Review of world literature and presentation of two cases. Arch Otolaryngol; 84:144.

Skopina, E.L.; Tatarini, T.E. and Batchkin, I.V. (1999): Significance of disorders of the respiratory and olfactory functional disturbances in forensic medical examination of nasal injuries. Vestn Otorhinolaryngol; 5:40.

Spetzler, R.P. et al. (2003): Preservation of olfaction in anterior craniofacial approaches. J Neurosurg; 48:79.

Stammberger, H. (1991): Functional endoscopic sinus surgery: The Messerklinger technique. Philadelphia, PA: B.C. Decker. Bolger W.E. (2001): anatomy of the paranasal sinuses. In : Diseases of the sinuses: Diagnosis and management. Kennedy D.W., Bolger W.E. and Zinreich S.J. (eds). B.C. Decker (Pub.). Published in Hamilton and London; 1:1-11.

Stammberger, H.R.; Bolger, W.E. and Clement, P.A.R. (1995):

Anatomic terminology and nomenclature in sinusitis. Ann. Otol. Rhinol. Laryngol; 104(Suppl.167): 7-19.

Stevens, J.C. and Cain, W.S. (1997): Old-age deficits in the sense of smell as gauged by thresholds, magnitude matching, and odor identification. Psychol Aging, 2:36.

Stuiver, M. (1995): Biophysics of the sense of smell, doctoral dissertation. Groningen, Rijks University.

Sullivan, S.L.; Ressler, K.J. and Buck, L.B. (1998): Spatial patterning and information coding in the olfactory system (review). Curr Opin Genet Dev; 5:56.

Sumner, D. (1994): Post-traumatic anosmia. Brain; 87:107.

Tagagi, S.F. (2004): A standardized olfactometer in Japan. *Ann N Y Acad Sci*; 413:510.

Tegoni, M. et al. (2000): Mammalian odorant binding proteins. *Biochem Biophys Acta*; 1- 176:229.

Tigliev, G.S.; Ilias, M.I. and Dubikaitis, I.U.V. (1996): Approach to tumors of the chiasm-sellar region with preservation of the olfactory tracts. *Zh Vopr Neurokhir Im N Burdenko*; 6:13

Tomkinson, A. and Eccles, R. (2006): The effect of changes in ambient temperature on the reliability of acoustic rhinometry data. *Rhinology*; 75:77.

Van Couwenberge, P.B. and Delaye, L. (1989): Nasal cycle in children. *Arch Otolaryngol*; 108:110.

VanToller, S. and Dodd, G.H. (2000): Presbyosmia and olfactory compensation for the elderly. *Br. J. Clin Pract*; 41:75.

Wang, L.; Walker, V.E. and Sardi, H. et al (2002):

The correlation between physiological and psychological responses to odour stimulation in human subjects. Clin. Neurophysiol; 542:551.

Wellington S. Tichenors, M.D. (Feb. 2007): Sinusitis for Physicians; 12:19.

West, S.E. and Doty, R.L. (1995): Influence of epilepsy and temporal lobe resection on olfactory function. Epilepsia; 36:53.

Williams, H.L. (1990): The clinical physiology and pathology of the nasal airway and adjoining air filled cavities. Annal. Otorhinolaryngol.; 79: 513-520.

Wippich, W.; Mecklenbrauker, S. and Trouet, J. (1999): Implicit and explicit memories of odors. Arch Psychol (Frankf); 141:195.

Wolfensberger, M.; Schnieper, I. and Welge-Lussen, A. (2000): Sniffin sticks: A new olfactory test battery. Acta Otolaryngol; 120:203.

Yamagishi, M. et al. (1996): Immunohistochemical examination of olfactory mucosa in patients with olfactory disturbance. Ann Otol Rhinol Laryngol; 99:205.

Yamagishi, M.; Hasegawa, S. and Nakano, Y. (1998): Examination and classification of human olfactory mucosa in patients with clinical olfactory disturbances. Arch Otorhinolaryngol; 245:316.

YOSHIFUKU KOSUKE; MATSUNE SHOJI; OHORI JUN'ICHIRO; MORIZONO KENSUKE, and KURONO YUICHI (2002): Effects of Endoscopic Sinus Surgery on Olfactory Disturbance. Japanese Journal of Rhinology. VOL.41;NO.2;PAGE.156-161

Zilstorff, K. and Herbild, O. (1999): Parosmia. Acta Otolaryngol Suppl; 36:40.
