

Central Sleep Apnea (Current Topics in Sleep Medicine from the University of Pennsylvania)

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References

Chapter 1

1. Skatrud JB, Dempsey JA. Interaction of sleep state and chemical stimuli in sustaining rhythmic ventilation. *J Appl Physiol Respir Environ Exerc Physiol.* 1983 Sep;55(3):813-22.
2. Nakayama H, Smith CA, Rodman JR, Skatrud JB, Dempsey JA. Effect of Ventilatory Drive on Carbon Dioxide Sensitivity below Eupnea during Sleep. *American Journal of Respiratory and Critical Care Medicine.* 2002 May 1;165(9):1251-60.

Chapter 3

1. Wuyam B, Pepin JL, Tremel F, Levy P. Pathophysiology of central sleep apnea syndrome. *Sleep.* 2000 Jun 15;23 Suppl 4:S213-9
2. Sleep-related breathing disorders in adults: recommendations for syndrome definition and measurement techniques in clinical research. The Report of an American Academy of Sleep Medicine Task Force. *Sleep.* 1999 Aug 1;22(5):667-89.

Chapter 4

1. Bradley TD, McNicholas WT, Rutherford R, Popkin J, Zamel N, Phillipson EA. Clinical and physiologic heterogeneity of the central sleep apnea syndrome. *Am Rev Respir Dis.* 1986 Aug;134(2):217-21.
2. Xie A, Rankin F, Rutherford R, Bradley TD. Effects of inhaled CO₂ and added dead space on idiopathic central sleep apnea. *J Appl Physiol* (1985). 1997 Mar;82(3):918-26.

Chapter 5

1. Rechtschaffen A, Gilliland M, Bergmann B, Winter J. Physiological correlates of prolonged sleep deprivation in rats. *Science.* 1983 July 8, 1983;221(4606):182-4.
2. Cheyne, J. A case of apoplexy in which the fleshy part of the heart was converted to fat. *Dublin Hospital Reports* 1818; 2:216-22
3. Stokes, W. The diseases of the heart and aorta. Dublin: Hodges & Smith, 1854: 302-40.
4. Burgess KR, Johnson PL, Edwards N. Central and obstructive sleep apnoea during ascent to high altitude. *Respirology.* 2004 Jun;9(2):222-9.
5. Sleep-related breathing disorders in adults: recommendations for syndrome definition and measurement techniques in clinical research. The Report of an American Academy of Sleep Medicine Task Force. *Sleep.* 1999 Aug 1;22(5):667-89.
6. Teschler H, Dohring J, Wang YM, Berthon-Jones M. Adaptive pressure support servo-ventilation: a novel treatment for Cheyne-Stokes respiration in heart failure. *Am J Respir Crit Care Med.* 2001 Aug 15;164(4):614-9.

7. Javaheri S, Parker TJ, Liming JD, Corbett WS, Nishiyama H, Wexler L, et al. Sleep apnea in 81 ambulatory male patients with stable heart failure. Types and their prevalences, consequences, and presentations. *Circulation*. 1998 Jun 2;97(21):2154-9.
8. Javaheri S, Corbett WS. Association of low PaCO₂ with central sleep apnea and ventricular arrhythmias in ambulatory patients with stable heart failure. *Ann Intern Med*. 1998 Feb 1;128(3):204-7.
9. Giannoni A, Baruah R, Willson K, Mebrate Y, Mayet J, Emdin M, et al. Real-time dynamic carbon dioxide administration: a novel treatment strategy for stabilization of periodic breathing with potential application to central sleep apnea. *J Am Coll Cardiol*. 2010 Nov 23;56(22):1832-7.
10. Lorenzi-Filho G, Rankin F, Bies I, Douglas Bradley T. Effects of inhaled carbon dioxide and oxygen on cheyne-stokes respiration in patients with heart failure. *Am J Respir Crit Care Med*. 1999 May;159(5 Pt 1):1490-8.
11. Sin DD, Fitzgerald F, Parker JD, Newton G, Floras JS, Bradley TD. Risk factors for central and obstructive sleep apnea in 450 men and women with congestive heart failure. *Am J Respir Crit Care Med*. 1999 Oct;160(4):1101-6.
12. Lanfranchi PA, Braghiroli A, Bosimini E, Mazzuero G, Colombo R, Donner CF, et al. Prognostic value of nocturnal Cheyne-Stokes respiration in chronic heart failure. *Circulation*. 1999 Mar 23;99(11):1435-40.
13. Javaheri S, Ahmed M, Parker TJ, Brown CR. Effects of nasal O₂ on sleep-related disordered breathing in ambulatory patients with stable heart failure. *Sleep*. 1999 Dec 15;22(8):1101-6.
14. Naughton MT, Liu PP, Bernard DC, Goldstein RS, Bradley TD. Treatment of congestive heart failure and Cheyne-Stokes respiration during sleep by continuous positive airway pressure. *Am J Respir Crit Care Med*. 1995 Jan;151(1):92-7.
15. Sin DD, Logan AG, Fitzgerald FS, Liu PP, Bradley TD. Effects of continuous positive airway pressure on cardiovascular outcomes in heart failure patients with and without Cheyne-Stokes respiration. *Circulation*. 2000 Jul 4;102(1):61-6.
16. Bradley TD, Logan AG, Kimoff RJ, Series F, Morrison D, Ferguson K, et al. Continuous positive airway pressure for central sleep apnea and heart failure. *N Engl J Med*. 2005 Nov 10;353(19):2025-33.
17. Arzt M, Floras JS, Logan AG, Kimoff RJ, Series F, Morrison D, et al. Suppression of central sleep apnea by continuous positive airway pressure and transplant-free survival in heart failure: a post hoc analysis of the Canadian Continuous Positive Airway Pressure for Patients with Central Sleep Apnea and Heart Failure Trial (CANPAP). *Circulation*. 2007 Jun 26;115(25):3173-80.
18. Aurora RN, Chowdhuri S, Ramar K, Bista SR, Casey KR, Lamm CI, et al. The treatment of central sleep apnea syndromes in adults: practice parameters with an evidence-based literature review and meta-analyses. *Sleep*. 2012 Jan;35(1):17-40.

Chapter 6

1. Farney RJ, Walker JM, Cloward TV, Rhondeau S. Sleep-disordered breathing associated with long-term opioid therapy.

2. Walker JM, Farney RJ, Rhondeau SM, Boyle KM, Valentine K, Cloward TV, et al. Chronic opioid use is a risk factor for the development of central sleep apnea and ataxic breathing. *J Clin Sleep Med.* 2007 Aug 15;3(5):455-61.

Chapter 7

1. Morgenthaler TI, Kagamanov V, Hanak V, Decker PA. Complex sleep apnea syndrome: is it a unique clinical syndrome? *Sleep.* 2006 Sep;29(9):1203-9.
2. Javaheri S, Smith J, Chung E. The prevalence and natural history of complex sleep apnea. *J Clin Sleep Med.* 2009 Jun 15;5(3):205-11.
3. Dellweg D, Kerl J, Hoehn E, Wenzel M, Koehler D. Randomized controlled trial of noninvasive positive pressure ventilation (NPPV) versus servoventilation in patients with CPAP-induced central sleep apnea (complex sleep apnea). *Sleep.* 2013 Aug;36(8):1163-71.
4. Amiel J, Laudier B, Attie-Bitach T, Trang H, de Pontual L, Gener B, et al. Polyalanine expansion and frameshift mutations of the paired-like homeobox gene PHOX2B in congenital central hypoventilation syndrome. *Nat Genet.* 2003 Apr;33(4):459-61.
5. Antic NA, Malow BA, Lange N, McEvoy RD, Olson AL, Turkington P, et al. PHOX2B mutation-confirmed congenital central hypoventilation syndrome: presentation in adulthood. *Am J Respir Crit Care Med.* 2006 Oct 15;174(8):923-7.
6. Javaheri S. Central sleep apnea. *Clin Chest Med.* 2010 Jun;31(2):235-48.
7. Aurora RN, Chowdhuri S, Ramar K, Bista SR, Casey KR, Lamm CI, et al. The treatment of central sleep apnea syndromes in adults: practice parameters with an evidence-based literature review and meta-analyses. *Sleep.* 2012 Jan;35(1):17-40.