

References

1. Aldabal L, Bahammam AS (2011) Metabolic, endocrine, and immune consequences of sleep deprivation. *The Open Respiratory Medicine Journal* 5:31–43.
2. Alhola P, Polo-Kantola P (2007) Sleep deprivation: Impact on cognitive performance. *Neuropsychiatric Disease and Treatment* 3:553–67.
3. Andrillon T, Nir Y, Staba RJ, Ferrarelli F, Cirelli C, Tononi G, Fried I (2011) Sleep spindles in humans: insights from intracranial EEG and unit recordings. *J Neurosci* 31:17821–834.
4. Blumert PA, Crum AJ, Ernsting M, Volek JS, Hollander DB, Haff EE, Haff GG (2007) The acute effects of twenty-four hours of sleep loss on the performance of national-caliber male collegiate weightlifters. *J Strength Cond Res* 21:1146–54.
5. Bollinger T, Bollinger A, Oster H, Solbach W (2010) Sleep, immunity, and circadian clocks: a mechanistic model. *Gerontology* 56:574–80.
6. Bosity-Westphal A, Hinrichs S, Jauch-Chara K, Hitze B, Later W, Wilms B, Settler U, Peters A, Kiosz D, Muller MJ (2008). Influence of partial sleep deprivation on energy balance and insulin sensitivity in healthy women. *Obesity Facts* 1:266–73.
7. Brandenberger G, Weibel L (2004) The 24-h growth hormone rhythm in men: sleep and circadian influences questioned. *Journal of Sleep Research* 13:251–55.
8. Broussard JL, Ehrmann DA, Van Cauter E, Tasali E, Brady MJ (2012) Impaired insulin signaling in human adipocytes after experimental sleep restriction: a randomized, crossover study. *Ann Intern Med* 157:549–57.
9. Bulbulian R, Heaney JH, Leake CN, Sucec AA, Sjöholm NT (1996) The effect of sleep deprivation and exercise load on isokinetic leg strength and endurance. *Eur J Appl Physiol Occup Physiol* 73:273–77.
10. Buxton OM, Pavlova M, Reid EW, Wang W, Simonson DC, Adler GK (2010). Sleep restriction for 1 week reduces insulin sensitivity in healthy men. *Diabetes* 59: 2126–133.
11. Carskadon MA DW. Normal human sleep: An overview. In: Kryger MH, Roth T, Dement WC, editors (2011) *Principles and practice of sleep medicine*. 5th ed. St. Louis: Elsevier, 16–26.
12. Cortes-Gallegos V (1983) Sleep deprivation reduces circulating androgens in healthy men. *Arch Androl*.
13. Cote KA, McCormick CM, Geniole SN, Renn RP, MacAulay SD (2013) Sleep deprivation lowers reactive aggression and testosterone in men. *Biol Psychol* 92:249–56.
14. Dijk DJ (2010) Slow-wave sleep deficiency and enhancement: implications for insomnia and its management. *The World Journal of Biological Psychiatry: The Official Journal of the World Federation of Societies of Biological Psychiatry* 11(S1):22–28.
15. Donga E, van Dijk M, van Dijk JG, Biermasz NR, Lammers GJ, van Kralingen KW, Corssmit EP, Romijn JA (2010) A single night of partial sleep deprivation induces insulin resistance in multiple metabolic pathways in healthy subjects. *J Clin Endocrinol Metab* 95:2963–68.
16. Fondell E, Axelsson J, Franck K, Ploner A, Lekander M, Balter K, Gaines H (2011) Short natural sleep is associated with higher T cell and lower NK cell activities. *Brain, Behavior, and Immunity* 25:1367–375.
17. Gonzalez-Santos MR, Gaja-Rodriguez OV, Alonso-Uriarte R, Sojo-Aranda I, Cortes-Gallegos V (1989) Sleep deprivation and adaptive hormonal responses of healthy men. *Arch Androl* 22:203–07.
18. Gronfier C, Brandenberger G (1998) Ultradian rhythms in pituitary and adrenal hormones: their relations to sleep. *Sleep Medicine Reviews* 2:17–29.
19. Hobson JA (2009) REM sleep and dreaming: towards a theory of protoconsciousness. *Nat Rev Neurosci* 10:803–13.
20. Hudson-Walters P (2004) Sleep: The athlete and performance. *Strength Cond J* 24:17–24.
21. Irwin MR, Carrillo C, Olmstead R (2010) Sleep loss activates cellular markers of inflammation: sex differences. *Brain, Behavior, and Immunity* 24:54–57.
22. Joo EY, Yoon CW, Koo DL, Kim D, Hong SB (2012) Adverse effects of 24 hours of sleep deprivation on cognition and stress hormones. *Journal of Clinical Neurology* 8:146–50.
23. Klingenberg L, Chaput JP, Holmback U, Jennum P, Astrup A, Sjödin A (2012) Sleep restriction is not associated with a positive energy balance in adolescent boys. *Am J Clin Nutr* 96:240–48.

24. Knutson KL, Spiegel K, Penev P, Van Cauter E (2007) The metabolic consequences of sleep deprivation. *Sleep Medicine Reviews* 11:163–78.
25. Lastella M, Lovell GP, Sargent C (2014) Athletes' precompetitive sleep behavior and its relationship with subsequent precompetitive mood and performance. *Eur J Sport Sci* 14(S1):S123–30.
26. Leproult R, Van Cauter E (2011) Effect of 1 week of sleep restriction on testosterone levels in young healthy men. *JAMA* 305:2173–174.
27. Marshall L, Molle M, Boschen G, Steiger A, Fehm HL, Born J (1996) Greater efficacy of episodic than continuous growth hormone-releasing hormone (GHRH) administration in promoting slow-wave sleep (SWS). *J Clin Endocrinol Metab* 81:1009–13.
28. Mullington JM, Simpson NS, Meier-Ewert HK, Haack M (2010) Sleep loss and inflammation. *Best Practice & Research Clinical Endocrinology & Metabolism* 24:775–84.
29. Nedeltcheva AV, Kilkus JM, Imperial J, Schoeller DA, Penev PD (2010). Insufficient sleep undermines dietary efforts to reduce adiposity. *Ann Intern Med* 153:435–41.
30. Netzer NC, Kristo D, Steinle H, Lehmann M, Strohl KP (2001) REM sleep and catecholamine excretion: a study in elite athletes. *Eur J Appl Physiol* 84:521–26.
31. Ohayon MM, Priest RG, Caulet M, Guilleminault C (1996) Hypnagogic and hypnopompic hallucinations: pathological phenomena? *The British Journal of Psychiatry: The Journal of Mental Science* 169:459–67.
32. Opstad PK, Falch D, Oktedalen O, Fonnum F, Wergeland R (1984) The thyroid function in young men during prolonged exercise and the effect of energy and sleep deprivation. *Clin Endocrinol (Oxf)* 20:657–69.
33. Perras B, Marshall L, Kohler G, Born J, Fehm HL (1999) Sleep and endocrine changes after intranasal administration of growth hormone-releasing hormone in young and aged humans. *Psychoneuroendocrinology* 24:743–57.
34. Reilly T, Piercy M (1994) The effect of partial sleep deprivation on weight-lifting performance. *Ergonomics* 37:107–15.
35. Reynolds AC, Dorrian J, Liu PY, Van Dongen HP, Wittert GA, Harmer LJ, Banks S (2012) Impact of five nights of sleep restriction on glucose metabolism, leptin and testosterone in young adult men. *PLoS One* 7:e41218.
36. Samuels C (2008) Sleep, recovery, and performance: the new frontier in high-performance athletics. *Neurologic Clinics* 26:169–80.
37. Samuels C (2009) Sleep, recovery, and performance: The new frontier in high-performance athletics. *Phys Med Rehabil Clin N Am* 20:149–59.
38. Schredl M, Ciric P, Gotz S, Wittmann L (2004) Typical dreams: stability and gender differences. *The Journal of Psychology* 138:485–94.
39. Shapiro CM, Bortz R, Mitchell D, Bartel P, Jooste P (1981) Slow-wave sleep: a recovery period after exercise. *Science* 214: 1253–1254.
40. Spiegel K, Knutson K, Leproult R, Tasali E, Van Cauter E (2005) Sleep loss: a novel risk factor for insulin resistance and Type 2 diabetes. *J Appl Physiol* (1985) 99:2008–19.
41. Spiegel K, Leproult R, Colecchia EF, L'Hermite-Baleriaux M, Nie Z, Copinschi G, Van Cauter E (2000). Adaptation of the 24-h growth hormone profile to a state of sleep debt. *Am J Physiol Regul Integr Comp Physiol* 279:R874–83.
42. Spiegel K, Tasali E, Penev P, Van Cauter E (2004) Brief communication: Sleep curtailment in healthy young men is associated with decreased leptin levels, elevated ghrelin levels, and increased hunger and appetite. *Ann Intern Med* 141:846–50.
43. Steiger A, Guldner J, Hemminger U, Rothe B, Wiedemann K, Holsboer F (1992) Effects of growth hormone-releasing hormone and somatostatin on sleep EEG and nocturnal hormone secretion in male controls. *Neuroendocrinology* 56:566–73.
44. T.J. B (2011) Performance deficits during sleep loss: effects of time awake, time of day, and time on task.
45. Uusitalo AL, Valkonen-Korhonen M, Helenius P, Vanninen E, Bergstrom KA, Kuikka JT (2004) Abnormal serotonin reuptake in an overtrained, insomniac and depressed team athlete. *Int J Sports Med* 25:150–53.

46. Van Cauter E, Caufriez A, Kerkhofs M, Van Onderbergen A, Thorner MO, Copinschi G (1992) Sleep, awakenings, and insulin-like growth factor-I modulate the growth hormone (GH) secretory response to GH-releasing hormone. *J Clin Endocrinol Metab* 74:1451–59.
47. Van Cauter E, Spiegel K, Tasali E, and Leproult R (2008) Metabolic consequences of sleep and sleep loss. *Sleep Medicine* 9(S1):S23–28.
48. Walker MP (2008) Cognitive consequences of sleep and sleep loss. *Sleep Medicine* 9(S1):S29–34.
49. Waters F, Blom JD, Dang-Vu TT, Cheyne AJ, Alderson-Day B, Woodruff P, Collerton D. What Is the Link Between Hallucinations, Dreams, and Hypnagogic-Hypnopompic Experiences? *Schizophr Bull.* 2016 Sep;42(5):1098-109.50

Other readings

1. Fullagar HH, Skorski S, Duffield R, Hammes D. Sleep and athletic performance: the effects of sleep loss on exercise performance, and physiological and cognitive responses to exercise *Sports Med.* 2015 Feb;45(2):161-86.
2. Kim, T. W., Jeong, J. H., & Hong, S. C. (2015). The impact of sleep and circadian disturbance on hormones and metabolism. *International journal of endocrinology*
3. Waterhouse J, Atkinson G, Edwards B, Reilly T (2007) The role of a short post-lunch nap in improving cognitive, motor, and sprint performance in participants with partial sleep deprivation. *J Sports Sci* 25:1557–566
4. Afaghi A, O'Connor H, Chow CM (2008) Acute effects of the very low carbohydrate diet on sleep indices. *NutrNeurosci* 11:146–54.
5. Nehme P, Marqueze EC, Ulhoa M, Moulatlet E, Codarin MA, Moreno CR (2014) Effects of a carbohydrate-enriched night meal on sleepiness and sleep duration in night workers: a double-blind intervention. *Chronobiol Int* 31:453–60.
6. Res PT, Groen B, Pennings B, Beelen M, Wallis GA, Gijsen AP, Senden JM, LJ VANL (2012) Protein ingestion before sleep improves post-exercise overnight recovery. *Med Sci Sports Exerc* 44:1560–569.
7. Groen BB, Res PT, Pennings B, Hertle E, Senden JM, Saris WH, van Loon LJ (2012) Intra-gastric protein administration stimulates overnight muscle protein synthesis in elderly men. *Am J PhysiolEndocrinol Metab* 302:E52–60
8. O'Callaghan, F., Muurlink, O., & Reid, N. (2018). Effects of caffeine on sleep quality and daytime functioning. *Risk management and healthcare policy*, 11, 263–271.