

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

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References

Chapter 1

1. Sleeplessness. *Br Med J*. 1894 Sep;2:719
2. Basner M, Fomberstein KM, Razavi FM, Banks S, William JH, Rosa RR, et al. American time use survey: sleep time and its relationship to waking activities. *Sleep*. 2007 Sep;30(9):1085-95.
3. Knutson KL. Sleep duration and cardiometabolic risk: a review of the epidemiologic evidence. *Best Pract Res Clin Endocrinol Metab*. 2010 Oct;24(5):731-43.
4. "If sleep does not serve an absolutely vital function, then it is the biggest mistake the evolutionary process has ever made." Allan Rechtschaffen, University of Chicago Sleep Laboratory, Smithsonian, November 1978
5. "Why try to prolong life if so much of it is to be spent asleep." Immanuel Kant (cited in Marie de Manacéine, 1897) Kant advised early rising and a decrease of the hours devoted to sleep.
6. "Sleep is of the brain, by the brain and for the brain." J. Allan Hobson, *Nature*, 2005
7. "Most generally, sleep is the price we pay for the brain's plasticity – it's ability to modify its wiring in response to experience" Giulio Tononi and Chiara Cirelli, *Scientific American*, August 2013
8. Walker MP. Sleep, memory and emotion. *Prog Brain Res*. 2010;185:49-68.
9. Wagner U, Gais S, Haider H, Verleger R, Born J. Sleep inspires insight. *Nature*. 2004 Jan 22;427(6972):352-5.

Chapter 2

1. Kripke DF, Garfinkel L, Wingard DL, Klauber MR, Marler MR. Mortality associated with sleep duration and insomnia. *Arch Gen Psychiatry*. 2002 Feb;59(2):131-6.
2. Centers for Disease Control. Effect of short sleep duration on daily activities--United States, 2005-2008. *MMWR Morb Mortal Wkly Rep*. 2011 Mar 4;60(8):239-42.
3. Driscoll TR, Grunstein RR, Rogers NL. A systematic review of the neurobehavioural and physiological effects of shiftwork systems. *Sleep Med Rev*. 2007 Jun;11(3):179-94.
4. Dawson D, Reid K. Fatigue, alcohol and performance impairment. *Nature*. 1997 Jul 17;388(6639):235.
5. Klauer SG, Dingus TA, Neale VL, Sudweeks J, Ramsey. The Impact of Driver Inattention on Near-Crash/Crash Risk: An Analysis Using the 100-Car Naturalistic Driving Study Data DOT HS 810 594. 2006.
6. Scott LD, Hwang WT, Rogers AE, Nysse T, Dean GE, Dinges DF. The relationship between nurse work schedules, sleep duration, and drowsy driving. *Sleep*. 2007 Dec;30(12):1801-7.

7. Lim J, Dinges DF. Sleep Deprivation and Vigilant Attention. *Annals of the New York Academy of Sciences*. 2008;1129(1):305-22.
8. Doran SM, Van Dongen HP, Dinges DF. Sustained attention performance during sleep deprivation: evidence of state instability. *Arch Ital Biol*. 2001 Apr;139(3):253-67.
9. Basner M. Sleep duration and chronic sleep debt: are 6 hours enough? *Biol Psychol*. 2011 Apr;87(1):15-6.
10. Killgore WD, Grugle NL, Balkin TJ. Gambling when sleep deprived: don't bet on stimulants. *Chronobiol Int*. 2012 Feb;29(1):43-54.

Chapter 3

1. Borbély AA, Achermann P. Sleep homeostasis and models of sleep regulation. *J Biol Rhythms*. 1999 Dec;14(6):557-68.
2. Jewett ME, Wyatt JK, Ritz-De Cecco A, Khalsa SB, Dijk DJ, Czeisler CA. Time course of sleep inertia dissipation in human performance and alertness. *J Sleep Res*. 1999 Mar;8(1):1-8.
3. McCauley P, Kalachev LV, Smith AD, Belenky G, Dinges DF, Van Dongen HP. A new mathematical model for the homeostatic effects of sleep loss on neurobehavioral performance. *J Theor Biol*. 2009 Jan 21;256(2):227-39.

Chapter 4

1. Van Dongen HP, Maislin G, Mullington JM, Dinges DF. The cumulative cost of additional wakefulness: dose-response effects on neurobehavioral functions and sleep physiology from chronic sleep restriction and total sleep deprivation. *Sleep*. 2003 Mar 15;26(2):117-26.
2. Van Dongen HP, Maislin G, Dinges DF. Dealing with inter-individual differences in the temporal dynamics of fatigue and performance: importance and techniques. *Aviat Space Environ Med*. 2004 Mar;75(3 Suppl):A147-54.
3. Zhou X, Ferguson SA, Matthews RW, Sargent C, Darwent D, Kennaway DJ, et al. Mismatch between subjective alertness and objective performance under sleep restriction is greatest during the biological night. *J Sleep Res*. 2012 Feb;21(1):40-9.
4. Chua EC, Tan WQ, Yeo SC, Lau P, Lee I, Mien IH, et al. Heart rate variability can be used to estimate sleepiness-related decrements in psychomotor vigilance during total sleep deprivation. *Sleep*. 2012 Mar;35(3):325-34.

Chapter 5

1. Cohen DA, Wang W, Wyatt JK, Kronauer RE, Dijk DJ, Czeisler CA, et al. Uncovering residual effects of chronic sleep loss on human performance. *Sci Transl Med*. 2010 Jan 13;2(14):14ra3.
2. Rupp TL, Wesensten NJ, Bliese PD, Balkin TJ. Banking sleep: realization of benefits during subsequent sleep restriction and recovery. *Sleep*. 2009 Mar;32(3):311-21.
3. Basner M. Sleep duration and chronic sleep debt: are 6 hours enough? *Biol Psychol*. 2011 Apr;87(1):15-6.

Chapter 6

1. Basner M, Rao H, Goel N, Dinges DF. Sleep deprivation and neurobehavioral dynamics. *Curr Opin Neurobiol.* 2013 Oct;23(5):854-63.
2. Van Dongen HP, Baynard MD, Maislin G, Dinges DF. Systematic interindividual differences in neurobehavioral impairment from sleep loss: evidence of trait-like differential vulnerability. *Sleep.* 2004 May 1 ;27(3):423-33.
3. Rupp TL, Wesensten NJ, Balkin TJ. Trait-like vulnerability to total and partial sleep loss. *Sleep.* 2012 Aug;35(8):1163-72.

Chapter 7

1. Theorell-Haglow J, Berglund L, Janson C, Lindberg E. Sleep duration and central obesity in women – differences between short sleepers and long sleepers. *Sleep Med.* 2012 Sep;13(8):1079-85.
2. Grandner MA, Drummond SP. Who are the long sleepers? Towards an understanding of the mortality relationship. *Sleep Med Rev.* 2007 Oct;11(5):341-60.
3. Patel SR, Malhotra A, Gottlieb DJ, White DP, Hu FB. Correlates of long sleep duration. *Sleep.* 2006 Jul;29(7):881-9.
4. Stamatakis KA, Punjabi NM. Long sleep duration: a risk to health or a marker of risk? *Sleep Med Rev.* 2007 Oct;11(5):337-9.
5. Basner M, Fomberstein KM, Razavi FM, Banks S, William JH, Rosa RR, et al. American time use survey: sleep time and its relationship to waking activities. *Sleep.* 2007 Sep;30(9):1085-95.
6. Spaeth AM, Dinges DF, Goel N. Effects of Experimental Sleep Restriction on Weight Gain, Caloric Intake, and Meal Timing in Healthy Adults. *Sleep.* 2013;36(7):981-90.
7. Basner M, Fomberstein KM, Razavi FM, Banks S, William JH, Rosa RR, et al. American time use survey: sleep time and its relationship to waking activities. *Sleep.* 2007 Sep;30(9):1085-95.
8. Basner M, Dinges DF. Dubious bargain: trading sleep for Leno and Letterman. *Sleep.* 2009 Jun;32(6):747-52.