



Effects of Weight Consciousness, Circadian Arousal, and Depression on Young Women's Memory

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ABSTRACT

Weight consciousness has been found to significantly affect women's cognitive performance. In the present study, the effects of circadian arousal and depression were investigated by examining the relationship between young women's weight consciousness and memory performance. College women were tested on a picture recall task consisting of neutral and weight-related pictures. Participants were categorized into morning, evening, and intermediate types, and were tested either in the morning or late afternoon/evening (peak and non-peak testing times, or control). Our results showed that participants who were weight conscious were also more depressed. When tested at non-peak times, depressed participants recalled significantly more weight-related pictures than neutral pictures, while non-depressed participants did not show this recall pattern. These results suggest that young women with depression are less likely to inhibit memory of weight-related pictures when tested at their non-peak times of the day.

KEYWORDS

Memory, Women, Weight Consciousness, Circadian Arousal, Depression

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References

- [1] Anderson, M. J., Petros, T. V., Beckwith, B. E., Mitchell, W. W., & Fritz, S. (1991). Individual differences in the effect of time of day on long-term memory access. *American Journal of Psychology*, 104, 241-255. doi:10.2307/1423157
- [2] Baddeley, A. D., & Hitch, G. J. (1974). Working memory. In G. H. Bower (Ed.), *The psychology of learning and motivation* (Vol. 8). New York: Academic Press.
- [3] Beck, A. T., Ward, C. H., Mendelson, M., Mock, J., & Erbaugh, J. (1961). An inventory for measuring depression. *Archives of General Psychiatry*, 4, 1961, 561-571.
- [4] Blaney, P. H. (1986). Affect and memory: A review. *Psychological Bulletin*, 99, 229-246. doi:10.1037/0033-2909.99.2.229
- [5] Bower, G. H. (1981). Mood and memory. *American Psychologist*, 36, 129-148. doi:10.1037/0003-066X.36.2.129
- [6] Burt, D. B., Zembar, M. J., & Niederehe, G. (1995). Depression and memory impairment: A meta-analysis of the association, its pattern, and specificity. *Psychological Bulletin*, 117, 285-305. doi:10.1037/0033-2909.117.2.285
- [7] Costa, P. T. & McCrae, R. R. (2003). Neo Five Factor Inventory (NEO-FFI). Lutz, FL: Psychological Assessment Resources, Inc.
- [8] Cooper, M. J., Deepak, K., Grosbett, E., & Bailey, E. (2007). The experience of "feeling fat" in women with anorexia nervosa, dieting and non-dieting women: An exploratory study. *European Eating Disorders Review*, 15, 44-52. doi:10.1002/erv.819

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- [9] Folkard, S. (1982). Circadian rhythms and human memory. In F. M. Brown, & R. C. Graeber (Eds.), *Rhythmic aspects of behavior* (pp. 241-272). Hillsdale, NJ: Lawrence Erlbaum Associates.
- [10] Garner, D. M., Olmsted, M. P., Bohr, Y., & Garfinkel, P. E. (1982). The eating attitudes test: Psychometric features and clinical correlates. *Psychological Medicine*, 12, 871-878. doi:10.1017/S0033291700049163
- [11] Green, M. W., Jones, A. D., Smith, I. D., Cobain, M. R., Williams, J. M. G., Healy, H., Cowen, P. J., Powell, J., & Durlach, P. J. (2003). Impairments in working memory associated with naturalistic dieting in women: No relationship between task performance and urinary 5-HIAA levels. *Appetite*, 40, 145-153. doi:10.1016/S0195-6663(02)00137-X
- [12] Green, M. W., & Rogers, P. J. (1998). Impairments in working memory associated with spontaneous dieting behaviour. *Psychological Medicine*, 28, 60-68. doi:10.1017/S0033291798007016
- [13] Hasher, L., Chung, C., May, C., Foong, N. (2002). Age, time of testing, and proactive interference. *Canadian Journal of Experimental Psychology*, 56, 200-207. doi:10.1037/h0087397
- [14] Hasher, L., & Zacks, R. T. (1988). Working memory, comprehension, and aging: A review and a new view. In G. H. Bower (Ed.), *The psychology of learning and motivation* (Vol. 22 pp. 193-225). San Diego, CA: Academic Press.
- [15] Hasher, L., Zacks, R. T., & May, C. P. (1999). Inhibitory control, circadian arousal, and age. In D. Gopher, & A. Koriat (Eds.), *Attention and performance, XVII, cognitive regulation of performance: Interaction of theory and application* (pp. 653-675). Cambridge, MA: MIT Press.
- [16] Hertel, P. T. (2004). Memory for emotional and nonemotional events in depression: A question of habit? In D. Reisberg, & P. Hertel (Eds.), *Memory and emotion* (pp. 186-216). New York: Oxford University Press.
- [17] Horne, J., & Ostberg, O. (1977). Individual differences in human circadian rhythms. *Biological Psychology*, 5, 179-190. doi:10.1016/0301-0511(77)90001-1
- [18] Hunt, J. & Cooper, M. (2001). Selective memory bias in women with bulimia nervosa and women with depression. *Behavioural and Cognitive Psychotherapy*, 29, 93-102. doi:10.1017/S1352465801001102
- [19] Hrushesky, W. (1994). Timing is everything. *The Sciences*, 34, 32-37.
- [20] Jackman, L. P., Williamson, D. A., Netemeyer, R. G., & Anderson, D. A. (1995). Do weight-preoccupied women misinterpret ambiguous stimuli related to body size? *Cognitive Therapy and Research*, 19, 341-355. doi:10.1007/BF02230404
- [21] Jones, N., & Rogers, P. J. (2003). Preoccupation, food, and failure: An investigation of cognitive performance deficits in dieters. *International Journal of Eating Disorders*, 33, 185-192. doi:10.1002/eat.10124
- [22] Joormann, J. (2010). Cognitive inhibition and emotion regulation in depression. *Current Directions in Psychological Science*, 19, 161-166. doi:10.1177/0963721410370293
- [23] Joormann, J., Teachman, B. A., & Gotlib, I. H. (2009). Sadder and less accurate? False memory for negative material in depression. *Journal of Abnormal Psychology*, 118, 412-417. doi:10.1037/a0015621
- [24] Kemps, E., & Tiggemann, M. (2005). Working memory performance and preoccupying thoughts in female dieters: Evidence for a selective central executive impairment. *British Journal of Clinical Psychology*, 44, 357-366. doi:10.1348/014466505X35272
- [25] Kemps, E., & Tiggemann, M. (2009). Attentional bias for craving-related (chocolate) food cues. *Experimental and Clinical Psychopharmacology*, 17, 425-433. doi:10.1037/a0017796
- [26] Kemps, E., Tiggemann, M., & Grigg, M. (2008). Food cravings consume limited cognitive resources. *Journal of Experimental Psychology: Applied*, 14, 247-254. doi:10.1037/a0012736
- [27] Koenig, L. J., & Wasserman, E. L. (1995). Body image and dieting failures in college men and women: Examining links between depression and eating problems. *Sex Roles*, 32, 225-249. doi:10.1007/BF01544790

- [28] Mackie, D. M. & Worth, L. T. (1989). Processing deficits and the mediation of positive affect in persuasion. *Journal of Personality and Social Psychology*, 57, 27-40. doi:10.1037/0022-3514.57.1.27
- [29] Mathews, A., & MacLeod, C. (2005). Cognitive vulnerability to emotional disorders. *Annual Review of Clinical Psychology*, 1, 167-195. doi:10.1146/annurev.clinpsy.1.102803.143916
- [30] Matt, G. E., Vazquez, C. & Campbell, W. K. (1992). Mood-congruent recall of affectively toned stimuli: A meta-analytic review. *Clinical Psychology Review*, 12, 227-255. doi: 10.1016/0272-7358(92)90116-P
- [31] May, C. P. (1999). Synchrony effects in cognition: The costs and a benefit, *Psychonomic Bulletin & Review*, 6, 142-147. doi:10.3758/BF03210822
- [32] May, C. P., & Hasher, L. (1998). Synchrony effect in inhibitory control over thought and action. *Journal of Experimental Psychology: Human Perception and Performance*, 24, 363-379. doi:10.1037/0096-1523.24.2.363
- [33] Moore-Ede, M. C., Sulzman, F. M., & Fuller, C. A. (1982). *The clocks that time us: Physiology of the circadian timing system*. Cambridge, MA: Harvard University Press.
- [34] Petros, T. V., Beckwith, W., & Anderson, M. (1990). Individual differences in the effects of time of day and passage difficulty on prose memory in adults. *British Journal of Psychology*, 81, 63-72. doi:10.1111/j.2044-8295.1990.tb02346.x
- [35] Ruder, M., & Bless, H. (2003). Mood and the reliance on the ease of retrieval heuristic. *Journal of Personality and Social Psychology*, 85, 20-32. doi:10.1037/0022-3514.85.1.20
- [36] Sharifi, F., Chung, C., Mahinda, E., Johnson, J., & Wong, S. A. (2011). Emotional memory in women: Why a negativity bias? *Journal of Psychology and Behavioral Sciences*, 22, 36-42.
- [37] Shaw, J., & Tiggemann, M. (2004). Dieting and working memory: Preoccupying cognitions and the role of the articulatory control process. *British Journal of Health Psychology*, 9, 175-185. doi:10.1348/135910704773891032
- [38] Smoller, J. W., Wadden, T. A., & Stunkard, A. J. (1987). Dieting and depression: A critical review. *Journal of Psychosomatic Research*, 31, 429-440. doi:10.1016/0022-3999(87)90001-8
- [39] Storbeck, J., & Clore, G. L. (2005). With sadness comes accuracy; with happiness, false memory: Mood and the false memory effect. *Psychological Science*, 16, 785-791. doi:10.1111/j.1467-9280.2005.01615.x