

פסיכופתולוגיה ונירוקוגניציה
גדעון אנהולט ויואב קסלר

מסטר א' 101-2-0052
יום ב' 16:00 עד 20:00
בנין 34 מרקוס, חדר 214

הקורס עוסק בפסיכופתולוגיה כגון הפרעות חרדה, דכאון, הפרעות סומטופורמיות והתמכרויות ובהיבטים הניירו קוגניטיביים של קשיים אלה. נושאים שיידונו: שינויים בתפקודים קוגניטיביים (למשל, קשב, בקרה קוגניטיבית) המלווים פסיכופתולוגיות כמו אלה שנזכרו לעיל, הבסיס הקוגניטיבי והעצבי לשינויים אלה, ואפשרויות הטיפול המוצעות או משתמעות מן השינויים האלה.

חובות הקורס:

- נוכחות וקריאה.
- תלמידים מתבקשים לקרוא מאמר לכל שיעור. מספר מאמרים שונים (לתלמידים שונים).
- לגבי מאמר נתון, יהיה אחראי ועליו יהיה לקרוא ולדווח על המאמר. האחראי יכין ויפיץ סיכום לפני השיעור. הסיכום צריך לכלול את עיקרי המאמר ושאלות/קשיים.
- במהלך הקורס ניתן להצטרף למחקר על מנת ללמוד על אופי המחקר בתחום.
- ציון הקורס על פי עבודה ונוכחות/השתתפות. העבודה 90% והנוכחות/השתתפות 10%.
- העבודה בקורס הינה עבודה אמפירית (מחקר).

מושגים, פרדיגמות, נושאי מחקר

אימון בהטיה קישבית / Attention bias modification

Bar-Haim Y. (2010). Research review: Attention bias modification (ABM): a novel treatment for anxiety disorders. *The Journal of Child Psychology and Psychiatry*, 51, 859-70.

Hakamata, Y., Lissek, S., Bar-Haim Y., Britton, J. C., Fox, N. A., Leibenluft, E., Ernst, M., & Pine, D. S. (2010). Attention bias modification treatment: a meta-analysis toward the establishment of novel treatment for anxiety. *Biological Psychiatry*, 68, 982-990.

Algom, D., Chajut, E., & Lev, S. (2004). A rational look at the emotional stroop phenomenon: a generic slowdown, not a stroop effect. *Journal of Experimental Psychology General*, 133, 323-38.

Amir, N., Beard, C., Taylor, C.T., Klumpp, H., Elias, J., Burns, M., & Chen, X. (2009). Attention training in individuals with generalized social phobia: A randomized controlled trial. *Journal of Consulting and Clinical Psychology*, 77, 961-973.

Amir, N., Elias, J., Klumpp, H., & Przeworski, A. (2003). Attentional bias to threat in social phobia: Facilitated processing of threat or difficult disengaging attention from threat? *Behaviour Research and Therapy*, 41, 1325-1335.

Bar-Haim, Y., Lamy, D., Pergamin, L., Bakermans-Kranenburg, M.J., & van IJzendoorn, M.H. (2007). Threat related attentional bias in anxious and nonanxious individuals: A meta-analytic study. *Psychological Bulletin*, 133, 1–24.

Schmidt, N.B., Richey, J.A., Buckner, J.D., & Timpano, K.R. (2009). Attention training for generalized social anxiety disorder. *Journal of Abnormal Psychology*, 118, 5–14.

Hallion, L. S., & Ruscio, A. M. (2011). A meta-analysis of the effect of cognitive bias modification on anxiety and depression. *Psychological Bulletin* (in press).

טיפול באימון נטיות התנהגותיות אוטומטיות Retraining automatic action tendencies

Wiers, R. W., Eberl, C., Rinck, M., Becker, E. S., & Lindenmeyer, J. (2011). Retraining automatic action tendencies changes alcoholic patients' approach bias for alcohol and improves treatment outcome. *Psychological Science*, 22, 490-497.

Houben, K. (2011). Overcoming the urge to splurge: influencing eating behavior by manipulating inhibitory control. *Journal of Behavior Therapy and Experimental Psychiatry*, 42, 384-388.

Houben, K., Havermans, R. C., Nederkoorn, c., & Jansen, A. (2012). Beer à no-go: learning to stop responding to alcohol cues reduces alcohol intake via reduced affective associations rather than increased response inhibition. *Addiction*, 107, 1280-1287.

טיפול ממוחשב/ אינטרנטי ועזרה עצמית Internet/ computerized treatment and self help

Lange, A., Rietdijk, D., Hudcovicova, M., van de Ven, J. P., Schrieken, B., Emmelkamp, P. M. (2003). Interapy: a controlled randomized trial of the standardized treatment of posttraumatic stress through the internet. *Journal of Consulting and Clinical Psychology*, 71, 901-909.

van Boeijen, C. A., van Balkom, A. J., van Oppen, P., Blankenstein, N., Cherpanath, A., van Dyck, R. (2005). Efficacy of self-help manuals for anxiety disorders in primary care: a systematic review. *Family Practice*, 22, 192-196.

Cavanagh, K., Seccombe, N., Lidbetter, N. (2011). The implementation of computerized cognitive behavioural therapies in a service user-led, third sector self help clinic. *Behavioural and Cognitive Psychotherapy*, 39, 427-242.

Kazdin, A. E., & Blasé, S. L. (2011). Rebooting Psychotherapy Research and Practice to Reduce the Burden of Mental Illness. *Perspectives on Psychological Science*, 6, 21–37.

אימון בהטיית פרשנות interpretation bias training

Salemink, E., & Wiers, R. W. (2011). Modifying Threat-related Interpretive Bias in Adolescents. *Journal of Abnormal Child Psychology* (in press).

Lester, K. J., Mathews, A., Davidson, P. S., Burgess, J. L., & Yiend, J. (2011). Modifying cognitive errors promotes cognitive well being: a new approach to bias modification. *Journal of Behavior Therapy and Experimental Psychiatry*, 42, 298-308.

Hallion, L. S., & Ruscio, A. M. (2011). A meta-analysis of the effect of cognitive bias modification on anxiety and depression. *Psychological Bulletin*, 137, 940-958.

Hertel, P. T., Vasquez, E., Benbow, A., & Hughes, M. (2011). Recollection is impaired by the modification of interpretation bias. *Journal of Abnormal Psychology* (in press).

Vassilopoulos, S. P., Blackwell, S. E., Moberly, N. J., & Karahaliou E. (2011). Comparing imagery and verbal instructions for the experimental modification of interpretation and judgmental bias in children. *Journal of Behavior Therapy and Experimental Psychiatry*, 43, 594-601.

הטיה מרחבית / אסימטריה המיספריאלית / עיבוד גלובלי לוקאלי

(global-local processing / orientation bias)

Maril, S., Hermesh, H., Gross-Isserof, R., & Tomer, R. (2007). Spatial attention and neural asymmetry in obsessive-compulsive disorder. *Psychiatry Research*, 31, 153, 189-93.

Tomer, R. (2008). Attentional bias as trait: correlations with novelty seeking. *Neuropsychologia*, 46, 2064-70.

Förster, J., & Dannenberg, L. (2010). GLOMOsys: A Systems Account of Global Versus Local Processing. *Psychological Inquiry*, 21, 175-197.

Greene, D. J., & Zaidel, E. (2011). Hemispheric differences in attentional orienting by social cues. *Neuropsychologia*, 49, 61-68.

מהירות וגיוון מחשבות- חרדה ודיכאון

Pronin, E., Jacobs, E., & Wegner, D. M. (2008). Psychological Effects of Thought Acceleration. *Emotion*, 8, 597–612.

Pronin, E., & Wegner, D. M. (2006). Manic thinking: independent effects of thought speed and thought content on mood. *Psychological Science*, 17, 807-813.

הטיות בתפיסת עצמי מול אחרים

Pronin E. How we see ourselves and how we see others. (2008). *Science*, 320, 1177-1780.

מניעת חזרת פחד באמצעות מנגנוני עדכון רקונסולידציה

Schiller, D., Monfils, M. H., Raio, C. M., Johnson, D. C., Ledoux, J. E., & Phelps, E. A. (2010). Preventing the return of fear in humans using reconsolidation update mechanisms. *Nature*, 7, 49-53.

Kindt, M., & Soeter, M. (2011). Reconsolidation in a human fear conditioning study: A test of extinction as updating mechanism. *Biological Psychology*. (in press).

Costanzi, M., Cannas, S., Saravalli, D., Rossi-Arnaud, C., & Cestari, V. (2011). Extinction after retrieval: effects on the associative and nonassociative components of remote contextual fear memory. *Learning & Memory*, 18, 508-518.

Wichert, S., Wolf, O. T., & Schwabe, L. (2011). Reactivation, interference, and reconsolidation: Are recent and remote memories likewise susceptible? *Behavioral Neuroscience*, 125, 699-704.

(latent inhibition על מבוסס) הכחדה לטנטית

Lubow, R. E. (1998). Latent inhibition and behaviour pathology: Prophylactic and other possible effects of stimulus preexposure. In W. O'Donohue (Ed.), *Learning and Behavior Therapy* (pp. 107–121). Boston: Allyn and Bacon.

Lubow, R.E., & Kaplan, O. (2010). Psychopathology and individual differences in latent inhibition: Schizophrenia and schizotypality. In A. Gruszka, G. Matthews & B. Szymura (Eds.). *Handbook of individual differences in cognition: Attention, memory and executive control* (pp. 181-193). New York: Springer.

אימון זיהוי רגשי (emotion recognition)

Baron-Cohen, S., Golan, O., & Ashwin, E. (2009). Can emotion recognition be taught to children with autism spectrum conditions? *Philosophical Transactions of the Royal Society B: Biological Sciences*, *12*, 3567-74.

Buhlmann, U., Gleiß, M. J., Rupf, L., Zschenderlein, K., & Kathmann, N. (2011).

Modifying emotion recognition deficits in body dysmorphic disorder: an experimental investigation. *Depression and Anxiety*, *28*, 924-931.

Averbeck, B. B., Bobin, T., Evans, S., & Shergill, S. S. (2011). Emotion recognition and oxytocin in patients with schizophrenia. *PPsychological Medicine*, *11*, 1-8.

Hopkins, I. M., Gower, M. W., Perez, T. A., Smith, D. S., Amthor, F. R., Casey, Wimsatt, F., & Biasini, F. J. (2011). Avatar Assistant: Improving Social Skills in Students with an ASD Through a Computer-Based Intervention. *Journal of Autism and Developmental Disorders*, *4*, 1543-1555.

הפרעה טורדנית כפייתית ואינהיביציה של תגובה (OCD & response inhibition).

Morein-Zamir, S., Fineberg, N. A., Robbins, T. W., & Sahakian, B. J. (2010). Inhibition of thoughts and actions in obsessive-compulsive disorder: extending the endophenotype? *Psychological Medicine*, *40*, 263-272.

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Penades, R., Catalan, R., Rubia, K., Andres, S., Salamero, M., & Gasto, C. (2007). Impaired response inhibition in obsessive compulsive disorder. *European Psychiatry*, *22*, 404-410.

Van den Hout, M. & Kindt, M. (2003a). Repeated checking causes memory distrust. *Behaviour Research and Therapy*, *41*, 301-316.

Van den Hout, M. & Kindt, M. (2003b). Phenomenological validity of an OCD-memory model and the remember/know distinction. *Behaviour Research and Therapy*, *41*, 369-378.

Cognitive enhancement & inhibition

Aston-Jones, G., & Gold, J. I. (2009). How we say no: Norepinephrine, inferior frontal gyrus, and response inhibition. *Biological Psychiatry*, *65*, 548–549.

Chamberlain, S. R., Hampshire, A., Müller, U., Rubia, K., del Campo, N., Craig, K., et al. (2009). Atomoxetine modulates right inferior frontal activation during inhibitory control: A pharmacological functional magnetic resonance imaging study. *Biological Psychiatry*, *65*, 550–555.

Minzenberg, M. J., & Carter, C. S. (2008). Modafinil: a review of neurochemical actions and effects on cognition. *Neuropsychopharmacology*, *33*, 1477-1502.

Minzenberg, M. J., Watrous, A. J., Ursu, S., & Carter, C. S. Modafinil shifts human locus coeruleus to low-tonic, high-phasic activity during functional MRI. *Science*, *322*, 1700-1702.

(evaluative conditioning & addictions) התניית הערכה והתמכרות

Houben, K., Schoenmakers, T. M., & Wiers, R. W. (2011). I didn't feel like drinking but I don't know why: the effects of evaluative conditioning on alcohol-related attitudes, craving and behavior. *Addictive Behaviors*, *35*, 1161-3.

Houben, K., Havermans, R. C., & Wiers, R. W. (2010). Learning to dislike alcohol: conditioning negative implicit attitudes toward alcohol and its effect on drinking behavior. *Psychopharmacology (Berl)*, *211*, 79-86.

Hollands, G. J., Prestwich, A., Marteau, T. M. (2011). Using aversive images to enhance healthy food choices and implicit attitudes: An experimental test of evaluative conditioning. *Health Psychology*, *30*, 195-203.

Kattner F. (2011). Revisiting the relation between contingency awareness and attention: Evaluative conditioning relies on a contingency focus. *Cognition & Emotion*, *9*, 1-10.

(working memory training) אימון זיכרון עבודה

Kensinger, E. A., & Corkin, S. (2003). Effect of negative emotional content on working memory and long-term memory. *Emotion*, *3*, 378-93.

Anticevic, A., Repovs, G., & Barch, D. M. (2010). Resisting emotional interference: brain regions facilitating working memory performance during negative distraction. *Cognitive Affective and Behavioral Neuroscience*, *10*, 159-73.

Jaeggi, S. M., Buschkuhl, M., Jonides, J., & Perrig, W. J. (2008). Improving fluid intelligence with training on working memory. *Proceedings of the National Academy of Sciences*, 105, 6829-33.

Jaeggi, S.M., Studer-Luethi, B., Buschkuhl, M., & Su Y. (2010). The relationship between n-back performance and matrix reasoning - implications for training and transfer. *Intelligence*, 28, 625-635.

EMDR / העמסת זיכרון עבודה להורדת חיות זיכרונות אברסיביים

Engelhard, I. M., van den Hout, M. A., Janssen, W. C., & van der Beek, J. (2010). Eye movements reduce vividness and emotionality of "flashforwards". *Behaviour Research and Therapy*, 48, 442-7.

Engelhard, I. M., van den Hout, M. A., Dek, E. C., Giele, C. L., van der Wielen, J. W., Weijnen, M. J., & van Roij, B. (2011). Reducing vividness and emotional intensity of recurrent "flashforwards" by taxing working memory: an analogue study. *Journal of Anxiety Disorders*, 25, 599-603.

van den Hout, M. A., Engelhard, I. M., Beetsma, D., Slofstra, C., Hornsveld, H., Houtveen, J., & Leer, A. (2011). EMDR and mindfulness. Eye movements and attentional breathing tax working memory and reduce vividness and emotionality of aversive ideation. *Journal of Behavior Therapy and Experimental Psychiatry*, 42, 423-431.

פסיכופתולוגיה ומדעי העצב Neuroscience and psychopathology

Menon, V. (2011). Large-scale brain networks and psychopathology: a unifying triple network model. *Trend in Cognitive Sciences*, 15, 483-506.

Hyman, S. E. (2007). Can neuroscience be integrated into the DSM-V? *Nature Reviews Neuroscience*, 8, 725-732.

Cohen, J. D., & Servan-Schreiber, D. (1992). Context, cortex, and dopamine: A connectionist approach to behavior and biology in schizophrenia. *Psychological Review*, 99, 45-77.

Barch, D., & Dowd, E. C. (2010). Goal representations and motivational drive in schizophrenia: The role of prefrontal-striatal interactions.

Gold, J.M., Strauss, G.P., Waltz, J.A., Robinson, B.M., Brown, J.K. & Frank, M.J. (2013). Negative symptoms of schizophrenia are associated with abnormal effort-cost computations. *Biological Psychiatry*.

Penn, D., Corrigan, P. W., Bentall, R. P., Racenstein, J. M., & Newman, L. (1997). Social cognition in schizophrenia. *Psychological Bulletin*, 121, 114-132.

Gotlib, I. H., Krasnoperova, E., Yue, D. N., & Joormann, J. (2004). Attentional biases for negative interpersonal stimuli in clinical depression. *Journal of Abnormal Psychology*, 113, 127-135.

Joormann, J., & Gotlib, I. H. (2008). Updating the contents of working memory in depression: Interference from irrelevant negative material. *Journal of Abnormal Psychology*, 117, 182-192.