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NUEVAS INTERVENCIONES EN LA PREVENCIÓN DE INTRUSIONES INVOLUNTARIAS EN EL TRASTORNO POR ESTRÉS POST TRAUMÁTICO

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RESUMEN

Tras la exposición a un evento traumático, algunas personas pueden desarrollar un Trastorno por Estrés Postraumático (TEPT). Uno de los síntomas característicos son los recuerdos intrusivos que se caracterizan por ser extremadamente sensoriales e incluir componentes visoespaciales potentes. La terapia cognitivo conductual no tiene éxito en muchos pacientes debido a que estos síntomas son altamente resistentes a la extinción. Surge la necesidad de investigar posibles intervenciones posteriores al suceso traumático, que reduzcan la emergencia de estos recuerdos. Según el conocimiento actual en neurobiología de la memoria un recuerdo es inicialmente lábil durante la consolidación, lo cual abre la posibilidad de una ventana de potencial intervención terapéutica. Existen investigaciones que muestran que tareas con alta demanda visoespacial como un juego de Tetris, o que involucren el funcionamiento de la memoria de trabajo, como la Desensibilización y Reprocesamiento por Movimientos Oculares (EMDR, por sus siglas en inglés: Eye Movement Desensitization and Reprocessing) y tapping, podrían interferir en la consolidación si son realizadas después de las experiencias traumáticas, generando una disminución de las intrusiones involuntarias. El objetivo de esta presentación será dar cuenta del estado actual del conocimiento sobre la eficacia de nuevas intervenciones para la prevención de intrusiones involuntarias.

Palabras clave

TEPT - Tetris - EMDR - Tapping

ABSTRACT

NEW INTERVENTIONS IN THE PREVENTION OF FLASHBACKS IN POST-TRAUMATIC STRESS DISORDER

After exposure to a traumatic event, some people may develop Post Traumatic Stress Disorder (PTSD). One of the characteristic symptoms is the presence of flashbacks that are characterized by being extremely sensory and including powerful visuospatial memories. Cognitive-behavioral therapy is not successful in many patients because these symptoms are highly resistant to extinction. The need arises to investigate possible post-traumatic interventions that reduce the emergence of these

memories. According to the current knowledge in the field of neurobiology of memory, during consolidation, a memory trace is initially labile, which opens the possibility of a window of potential therapeutic intervention. There is research showing that tasks with high visuospatial demand such as a Tetris game, or that involve working memory functioning, such as Eye Movement Desensitization and Reprocessing (EMDR) and tapping, could interfere with consolidation if performed after traumatic experiences, causing a decrease in involuntary intrusions. The objective of this presentation will be to account for the current state of knowledge about the efficacy of new interventions for the prevention of involuntary intrusions.

Keywords

PTSD - Tetris - EMDR - Tapping

BIBLIOGRAFÍA

- American Psychiatric Association. *Diagnostic and Statistical Manual of Mental Disorders, 5th edn.* American Psychiatric Publishing: Arlington, VA, USA, 2013.
- Asselbergs, J., Sijbrandij, M., Hoogendoorn, E., Cuijpers, P., Olie, L., Oved, K., Merckies, J., Plooijer, T., Eltink, S., & Riper, H. (2018). Development and testing of TraumaGameplay: an iterative experimental approach using the trauma film paradigm. *European journal of psychotraumatology, 9*(1), 1424447. DOI: <https://doi.org/10.1080/20008198.2018.1424447>
- Baddeley, A. (2003). Working memory: looking back and looking forward. *Nature reviews neuroscience, 4*(10), 829-839. DOI: <https://doi.org/10.1038/nrn1201>
- Brühl, A., Heinrichs, N., Bernstein, E. E., & McNally, R. J. (2019). Preventive efforts in the aftermath of analogue trauma: The effects of Tetris and exercise on intrusive images. *Journal of behavior therapy and experimental psychiatry, 64*, 31-35. DOI: <https://doi.org/10.1016/j.jbtep.2019.01.004>
- Deepröse, C., Zhang, S., DeJong, H., Dalgleish, T., & Holmes, E. A. (2012). Imagery in the aftermath of viewing a traumatic film: Using cognitive tasks to modulate the development of involuntary memory. *Journal of behavior therapy and experimental psychiatry, 43*(2), 758-764. DOI: <https://doi.org/10.1016/j.jbtep.2011.10.008>

- Ehlers, A., Hackmann, A., & Michael, T. (2004). Intrusive re-experiencing in post-traumatic stress disorder: Phenomenology, theory, and therapy. *Memory, 12*(4), 403-415. DOI: <https://doi.org/10.1080/09658210444000025>
- Elsley, J. W., & Kindt, M. (2017). Tackling maladaptive memories through reconsolidation: From neural to clinical science. *Neurobiology of learning and memory, 142*, 108-117. DOI: <http://dx.doi.org/10.1016/j.nlm.2017.03.007>
- Farchi, M., Cohen, A., & Mosek, A. (2014). Developing specific self-efficacy and resilience as first responders among students of social work and stress and trauma studies. *Journal of Teaching in Social Work, 34*(2), 129-146. DOI: <https://doi.org/10.1080/08841233.2014.894602>
- Giustino, T. F., Fitzgerald, P. J., & Maren, S. (2016). Revisiting propranolol and PTSD: Memory erasure or extinction enhancement?. *Neurobiology of learning and memory, 130*, 26-33. DOI: <https://doi.org/10.1016/j.nlm.2016.01.009>
- Gotthard, G. H., & Gura, H. (2018). Visuospatial word search task only effective at disrupting declarative memory when prediction error is present during retrieval. *Neurobiology of learning and memory, 156*, 80-85. DOI: <https://doi.org/10.1016/j.nlm.2018.11.003>
- Gunter, R. W., & Bodner, G. E. (2008). How eye movements affect unpleasant memories: Support for a working-memory account. *Behaviour Research and Therapy, 46*(8), 913-931. DOI: <https://doi.org/10.1016/j.brat.2008.04.006>
- Holmes, E. A., & Bourne, C. (2008). Inducing and modulating intrusive emotional memories: A review of the trauma film paradigm. *Acta psychologica, 127*(3), 553-566. DOI: <https://doi.org/10.1016/j.actpsy.2007.11.002>
- Holmes, E. A., James, E. L., Coode-Bate, T., & Deepro, C. (2009). Can playing the computer game "Tetris" reduce the build-up of flashbacks for trauma? A proposal from cognitive science. *PLoS one, 4*(1). DOI: <https://doi.org/10.1371/journal.pone.0004153>
- Iyadurai, L., Blackwell, S. E., Meiser-Stedman, R., Watson, P. C., Bonsall, M. B., Geddes, J. R., Nobre, A. C., & Holmes, E. A. (2018). Preventing intrusive memories after trauma via a brief intervention involving Tetris computer game play in the emergency department: a proof-of-concept randomized controlled trial. *Molecular psychiatry, 23*(3), 674-682. DOI: <https://doi.org/10.1038/mp.2017.23>
- James, E. L., Bonsall, M. B., Hoppitt, L., Tunbridge, E. M., Geddes, J. R., Milton, A. L., & Holmes, E. A. (2015). Computer game play reduces intrusive memories of experimental trauma via reconsolidation-update mechanisms. *Psychological science, 26*(8), 1201-1215. DOI: <https://doi.org/10.1177/0956797615583071>
- James, E. L., Lau-Zhu, A., Clark, I. A., Visser, R. M., Hagenaaers, M. A., & Holmes, E. A. (2016). The trauma film paradigm as an experimental psychopathology model of psychological trauma: Intrusive memories and beyond. *Clinical Psychology Review, 47*, 106-142. DOI: <https://doi.org/10.1016/j.cpr.2016.04.010>
- Kavanagh, D. J., Freese, S., Andrade, J., & May, J. (2001). Effects of visuospatial tasks on desensitization to emotive memories. *British Journal of Clinical Psychology, 40*(3), 267-280. DOI: <https://doi.org/10.1348/014466501163689>
- Kessler, H., Holmes, E. A., Blackwell, S. E., Schmidt, A. C., Schweer, J. M., Bücker, A., Herpertz, S., Axmacher, N., & Kehyayan, A. (2018). Reducing intrusive memories of trauma using a visuospatial interference intervention with inpatients with posttraumatic stress disorder (PTSD). *Journal of consulting and clinical psychology, 86*(12), 1076-1090. DOI: <https://doi.org/10.1037/ccp0000340>
- Kessler H, Schmidt AC, James EL, et al. Visuospatial computer game play after memory reminder delivered three days after a traumatic film reduces the number of intrusive memories of the experimental trauma. *J Behav Ther Exp Psychiatry*. 2020;67:101454. DOI: <https://doi.org/10.1016/j.jbtep.2019.01.006> PMID: 31036259
- Lau-Zhu, A., Henson, R. N., & Holmes, E. A. (2019). Intrusive memories and voluntary memory of a trauma film: Differential effects of a cognitive interference task after encoding. *Journal of experimental psychology: general, 148*(12), 2154. DOI: <https://doi.org/10.17863/CAM.37318>
- Leer, A., Engelhard, I. M., & Van Den Hout, M. A. (2014). How eye movements in EMDR work: Changes in memory vividness and emotionality. *Journal of Behavior Therapy and Experimental Psychiatry, 45*(3), 396-401. DOI: <https://doi.org/10.1016/j.jbtep.2014.04.004>
- van Schie, K., van Veen, S. C., & Hagenaaers, M. A. (2019). The effects of dual-tasks on intrusive memories following analogue trauma. *Behaviour research and therapy, 120*, 103448. DOI: <https://doi.org/10.1016/j.brat.2019.103448>
- van Veen, S. C., Engelhard, I. M., & van den Hout, M. A. (2016). The effects of eye movements on emotional memories: Using an objective measure of cognitive load. *European Journal of Psychotraumatology, 7*(1), 30122. DOI: <https://doi.org/10.3402/ejpt.v7.30122>
- Wessel, I., Overwijk, S., Verwoerd, J., & de Vrieze, N. (2008). Pre-stressor or cognitive control is related to intrusive cognition of a stressful film. *Behaviour Research and Therapy, 46*(4), 496-513. DOI: <https://doi.org/10.1016/j.brat.2008.01.016>
- Yin, Q., Sun, Z., Liu, T., Ni, X., Deng, X., Jia, Y., Shang, Z., Zhou, Y., & Liu, W. (2020). Posttraumatic stress symptoms of health care workers during the corona virus disease 2019. *Clinical psychology & psychotherapy, 27*(3), 384-395. DOI: <https://doi.org/10.1002/cpp.2477>