EyeDetect Research Summary

The Converus Science Team, led by Dr. John Kircher, has published 19 articles or reports about the technology underlying EyeDetect®. In the research, EyeDetect is referred to as an ocular-motor deception test (ODT). Currently, there are 11 peer-reviewed research articles on EyeDetect.

Note: Sources 1-11 are peer-reviewed.

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2. Cook, A. E., Hacker, D. J., Webb, A. K., Osher, D., Kristjansson, S., Woltz, D. J., & Kircher, J. C. (2012). Lyin' Eyes: Ocular-motor Measures of Reading Reveal Deception. Journal of Experimental Psychology: Applied, 18(3), 301-313. LINK
3. Patnaik, P., Woltz, D., Hacker, D., Cooke, A., Francke-Ramm, M., Webb, A., and Kircher, J. (2016) Generalizability of an Ocular-Motor Test for Deception to a Mexican Population. International Journal of Applied Psychology, 6(1): 1-9. LINK
4. Hacker, D. J., Kuhlman, B., & Kircher, J. C., Cook, A.E., and Woltz, D.J. (2014). Detecting Deception Using Ocular Metrics During Reading. In D. C. Raskin, C. R. Honts, & J. C. Kircher (Eds.), Credibility Assessment: Scientific Research and Applications. Elsevier, pp 159-216. (AUTHOR/PUBLICATION REQUIRE PURCHASE) LINK
5. Kuhlman, B. B., Webb, A. K., Patnaik, P., Cook, A. E., Woltz, D. J., Hacker, D. J., & Kircher, J. C. (2011, September). Evoked Pupil Responses Habituate During an Oculomotor Test for Deception. Poster presented at the Society for Psychophysiological Research convention, Boston, MA. (abstract) LINK
6. Patnaik, P., Woltz, D.J., Cook, A.E., Webb, A.K., Raskin, D.C., and Kircher, J.C. (2015, March). Ocular-motor Detection of Deception in Laboratory Settings. Meeting of the American Psychology and Law Society, San Diego, CA. LINK
7. Webb, A. K., Hacker, D.J., Osher, D., Cook, A.E., Woltz, D. J., Kristjansson, S. K., and Kircher, J. C., (2009). Eye Movements and Pupil Size Reveal Deception in Computer Administered Questionnaires. In D. D. Schmorrow, I. V. Estabrooke, & M. Grootjen (Eds.), Foundations of Augmented Cognition. Neuroergonomics and Operational Neuroscience (553-562). Berlin/Heidelberg: Springer-Verlag. LINK
8. Webb, A. K, Honts, C. R., Kircher, J. C., Bernhardt, P.C., and Cook, A. E. (2009). Effectiveness of Pupil Diameter in a Probable-Lie Comparison Question Test for Deception. Legal and Criminal Psychology, 14(2), 279-292. (AUTHOR/PUBLICATION REQUIRE PURCHASE) LINK
9. Kircher, J. C. (2018). Ocular-motor Deception Test. In P. Rosenfeld (Ed.), Detecting Concealed Information and Deception (pp. 187–212), Elsevier Academic Press. (AUTHOR/PUBLICATION REQUIRE PURCHASE) LINK
10. Handler, M., and Nacházelová, M. (2021). Hybrid Polygraph and Ocular-Motor Deception Tests for Screening and Specific-Incident Investigations. In C. Pracana and M. Wang (Eds.), Psychology Applications & Developments VII (pp. 80-92), inScience Press. LINK
11. Bovard, P., Kircher, J., Woltz, D., Hacker, D. & Cook, A. (2019). Effects of direct and indirect questions on the ocular-motor deception test. Polygraph & Forensic Credibility Assessment, 48(1), 40-59. LINK
12. Osher, D. (2006). Multimethod Assessment of Deception: Oculomotor Movement, Pupil Size, and Response Time Measures. (Doctoral dissertation), University of Utah, Department of Educational Psychology. LINK
13. Webb, A.K. (2008). Effects of Motivation, and Item Difficulty on Oculomotor and Behavioral Measures of Deception. (Doctoral dissertation), University of Utah, Department of Educational Psychology. (ISBN: 9780549980032) LINK
14. Patnaik, P. (2013). Ocular-motor Methods for Detecting Deception: Direct Versus Indirect Interrogation. (Master's Thesis), University of Utah, Department of Educational Psychology. LINK
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18. Kircher, J. C. (2021). EyeDetect Hybrid Directed-lie Comparison Test (HDLC) Development and Validation Summary. LINK
19. Kircher, J. C. (2021). EyeDetect Hybrid Multi-Issue Comparison Test (HMCT) Development and Validation Summary. LINK