

The list of conditions and publications where the Saccadometer systems are being used, or are about to be used

1. Barker R.A., Michell A.W., “The eyes have it”. Saccadometry and Parkinson's disease, *Experimental Neurology* 219 (2009) 382–384
2. Zhang J., Rittman T., Nombela C., Fois A., Coyle-Gilchrist I., Barker R.A., Hughes L.E., Rowe J.B. , Different decision deficits impair response inhibition in progressive supranuclear palsy and Parkinson’s disease, *Brain Advance Access* published November 18, 2015 DOI: <http://dx.doi.org/10.1093/brain/awv331>
3. Walton C.C., O’Callaghan C., Hall J.M., Gilat M., Mowszowski L., Naismith S. L., Burrell J. R., Shine J. M., Lewis S. J.G., Antisaccade errors reveal cognitive control deficits in Parkinson’s disease with freezing of gait, *Journal of Neurology* December 2015, Volume 262, Issue 12, pp 2745-2754
4. Pernecky, R., Ghosh, B. C., Hughes, L., Carpenter, R. H. S., Baker, R. A. & Rowe, J. B. Saccadic latency in Parkinson's disease correlates with executive function and brain atrophy, but not motor severity. *Neurobiology of Disease*. 2011; 43: 79-85
5. Temel Y, Visser-Vandewalle V, Carpenter RHS. Saccadometry: a novel clinical tool for quantification of the motor effects of subthalamic nucleus stimulation in Parkinson’s disease. *Experimental Neurology*. 2009; 216:481-9.
6. Antoniadou, C. A., Buttery, P., FitzGerald, J. F., Barker, R. A., Carpenter, R. H. S & Watts, C. Deep brain stimulation: eye movements reveal anomalous effects of electrode placement and stimulation. *PLoS One*. 2012; In press.
7. Antoniadou CA, Bogacz R, Kennard C, FitzGerald JJ, Aziz T, Green AL. Deep Brain Stimulation Abolishes Slowing of Reactions to Unlikely Stimuli. *The Journal of Neuroscience*. 2014;34(33):10844-10852
8. Michell AW, Xu Z, Fritz D, Lewis SJG, Foltynie T, Williams-Gray CH, et al. Saccadic latency distributions in Parkinson's disease and the effects of L-dopa. *Experimental Brain Research*. 2006;169:237-45.
9. Ali FR, Michell AW, Barker RA, Carpenter RHS. The use of quantitative oculometry in the assessment of Huntington's disease. *Experimental Brain Research*. 2006;169:237-45.
10. Antoniadou CA, Zheyu X, Mason SL, Carpenter RHS, Barker RA. Huntington’s disease: changes in saccades and hand-tapping over 3 years. *Journal of Neurology*. 2010; 257 (11), 1890-1898
11. Hicks SL, Robert M., Golding V.P. Charlotte V.P., Tabrizi S.J., Kennard C., Oculomotor deficits indicate the progression of Huntington’s Disease, C. Kennard & R.J. Leigh (Eds.), *Progress in Brain Research*, Vol. 171, ISSN 0079-6123, Elsevier 2008
12. Grabska N., Rudzińska M., Wójcik-Pędziwiatr M., Michalski M., Sławek J., Szczudlik A., Saccadic eye movements in juvenile variant of Huntington disease, *Neurologia i Neurochirurgia Polska*, Volume 48, Issue 4, July–August 2014, Pages 236-241, ISSN 0028-3843

13. Antoniadou CA, Altham PME, Mason SL, Barker RA, Carpenter RHS. Saccadometry: a new tool for evaluating pre-symptomatic Huntington patients. *Neuroreport*. 2007;18:1133-6.
14. Matthieu P.A. Robert, Parashkev C. Nachev, Stephen L. Hicks, Charlotte V.P. Golding, Sarah J. Tabrizi and Christopher Kennard, Saccadometry of Conditional Rules in Presymptomatic Huntington's Disease, *Annals of the New York Academy of Sciences* Volume 1164 Issue Basic and Clinical Aspects of Vertigo and Dizziness, Pages 444 – 450 Published Online: 21 May 2009
15. Pearson BC, Armitage KR, Horner CWM, Carpenter RHS. Saccadometry: the possible application of latency distribution measurement for monitoring concussion. *British Journal of Sports Medicine*. 2007;41:610-2.
16. Mullen S.J., Yücel Y.H., Cusimano M., Schweizer T.A., Oentoro A., Gupta N., Saccadic eye movements in mild traumatic brain injury: A pilot study, *Canadian Journal of Neurological Sciences*, 2014, 41 (1), pp. 58-65
17. Amatya N., Gong Q., Knox P.C., Differing proportions of 'express saccade makers' in different human populations, *Experimental Brain Research*, 2011, 10:117-129
18. Wolohan F.D.A., Knox P.C., Oculomotor inhibitory control in express saccade makers, *Experimental Brain Research*, 2014, Volume 232, pp. 3949-3963
19. Knox P.C., Amatya N., Jiang X., Gong Q., Performance Deficits in a Voluntary Saccade Task in Chinese "Express Saccade Makers", 2012, *PLoS ONE* 7(10)
20. Knox P.C., Wolohan F.D.A., Temporal Stability and the Effects of Training on Saccade Latency in "Express Saccade Makers.", Ben Hamed S, ed. *PLoS ONE*. 2015;10(3)
21. Shaikh A. G., Wong A.L., Optican L.M., Miura K., Solomon D., Zee D.S., Sustained eye closure slows saccades, *Vision Research*, 2010, doi:10.1016/j.visres.2010.05.019
22. Knox P.C., Wolohan F.D.A., Cultural Diversity and Saccade Similarities: Culture Does Not Explain Saccade Latency Differences between Chinese and Caucasian Participants, Stephen ID, ed. *PLoS ONE*. 2014;9(4)
23. Faull O.K., Robertson J., Thomas O., Bradwell A.R., Antoniadou C.A., Pattinson K.T.S., The Effect of Acetazolamide on Saccadic Latency at 3459 Meters, *Wilderness & Environmental Medicine*, 2015, Volume 26, Issue 1, pp. 72-77, ISSN 1080-6032
24. Jung J., Jackson S.R., Nam K., Hollis C., Jackson G.M., Enhanced saccadic control in young people with Tourette syndrome despite slowed pro-saccades, *Journal of Neuropsychology*, 2014
25. Ghosh B.C.P., Carpenter R.H.S., Rowe J.B. A Longitudinal Study of Motor, Oculomotor and Cognitive Function in Progressive Supranuclear Palsy. Toft M, ed. *PLoS ONE*. 2013;8(9):e74486
26. Santana R. Mendiburu A., Lozano J.A., Multi-view classification of psychiatric conditions based on saccades, *Applied Soft Computing* Volume 31, June 2015, Pages 308–316
27. Pasgreta K., Nowińska E., Feit J., Płaszczycza N., Walecki P., Gorzelańczyk E., P-1028 - The parameters of saccadic eye movements in individuals with Alzheimer's disease compared with those of healthy subjects, *European Psychiatry*, 2012, Volume 27, Page 1, ISSN 0924-9338
28. Kunc M., Walecki P., Gorzelańczyk E., Feit J., Lason W., Ziolkowski M., Peak Velocity of Saccades in Alcohol-dependent Patients, *European Psychiatry*, 2015, Volume 30, Supplement 1, p. 1099,

29. Kunc M., Gorzelanczyk E., Feit J., Pasgreta K., Lason W., Ziolkowski M., Walecki P., Prolonged Latency Saccades in Alcohol-dependent Patients, *European Psychiatry*, 2015, Volume 30, Supplement 1, p. 1100
30. Walecki P., Gorzelańczyk E.J., P-349 - Using Saccadometry to Enhance Effectively Diagnosis of ADHD, *European Psychiatry*, 2012, Volume 27, Supplement 1, p. 1, ISSN 0924-9338
31. Gorzelańczyk E.J., Walecki P., Feit J., Kunc M., Fareed A., Improvement of Saccadic Functions After Dosing with Methadone in Opioid Addicted Individuals, *J Addict Dis.* 2016 Jan-Mar;35(1):52-7. doi: 10.1080/10550887.2016.1107289.
32. Saleh Y., Marcus H.J., Iorga R., Nouraei R., Carpenter R.H.S., Nandi D., Bedside saccadometry as an objective and quantitative measure of hemisphere-specific neurological function in patients undergoing cranial surgery, *Journal of Clinical Neuroscience*, 2015, Volume 22, Issue 2, pp. 280-285, ISSN 0967-5868
33. Cunniffe N., Munby H., Chan S., Saatci D., Edison E., Carpenter R.H.S., Massey D., Using saccades to diagnose covert hepatic encephalopathy, *Metabolic Brain Disease*, 2015, 30:821-828
34. Krismer F, Roos J.C.P., Schranz M., Graziadei I.W., Mechtcheriakov S., Vogel W., Carpenter R. H. S., Zoller H. Saccadic latency in hepatic encephalopathy: a pilot study. *Metab Brain Dis*, 2010, 25:285–295
35. Feit J., Kunc M., Walecki P., Gorzelanczyk E.J., Oculomotor disturbances in HIV-positive individuals treated with methadone, *Postepy Higieny i Medycyny Doswiadczalnej*, 2014, 68, pp. 1415-1420
36. Dawson, C., Murphy, E., Maritz, C., Chan, H., Ellerton, C., Carpenter, R. H. S, & Lachmann, R. H. Dietary treatment of phenylketonuria: the effect of phenylalanine on reaction time. *Journal of Inherited Metabolic Disease*. 2011; 34: 449-454
37. Perdziak M., Witkowska D., Gryniewicz W., Przekoracka-Krawczyk A., Ober J., The amblyopic eye in subjects with anisometropia show increased saccadic latency in the delayed saccade task, *Frontiers in Integrative Neuroscience*. 2014;8:77
38. Nouraei S.A., Roos J.C., Walsh S.R., Ober J.K., Gaunt M.E., Carpenter R.H. Objective assessment of the hemisphere-specific neurological outcome of carotid endarterectomy: a quantitative saccadometric analysis. *Neurosurgery*. 2010, Dec;67(6):1534-41.
39. Coubard O.A., Saccadometry and LATER model shed light on brain plasticity in aging, *Biocybernetics and Biomedical Engineering*, Volume 33, Issue 2, 2013, Pages 125-127, ISSN 0208-5216
40. Coubard O.A., Fall prevention modulates decisional saccadic behavior in aging, *Frontiers in Aging Neuroscience*. 2012;4:18