

Complex Visual Processing

- Bertone, A., Bettinelli, L., Faubert, J. (2007). The impact of blurred vision on cognitive assessment. *Journal Clinical & Experimental Neuropsychology*, 29 (5), 467-476. DOI: 10.1080/13803390600770793
- Ciaramelli, E., Grady, C.L. & Moscovitch (2008). Top-down and bottom-up attention to memory: A hypothesis on the role of the posterior parietal cortex in memory, *Neuropsychologia*, 46, 1828-1851.
- Delis D.C., Robertson, L.C. & Balliet, R. (1983). The breakdown and rehabilitation of visuospatial dysfunction in brain injured patients. *International Rehabilitation Medicine*, 5, 132-138.
- Dutton, G. N. (2003). Cognitive vision, its disorders and differential diagnosis in adults and children: Knowing where and what things are. *Eye*, 17,289-304.
- Goldberg, E. (2009). *The new executive brain: Frontal lobes in a complex world*. N.Y.: Oxford University Press
- Good, W.V., Jan , J.E., DeSa, L., Barkovich, J., Groenveld, M., Hoyt, C.S. (1994). Cortical visual impairment in children. *Survey of Ophthalmology*, 38, 351-364.
- Green, J.D.W. (2005). Apraxia, agnosias, and higher visual function abnormalities. *Journal Neurology, Neurosurgery, Psychiatry*, 76, 25-34. doi:10.1136/jnnp.2005.081885
- Harding, E., Sullivan, M.P., Woodbridge, R., Yong, K.X.X., McIntyre, A., Gilhooly, M.L....Crutch, S.J. (2018). Because my brain isn't as active as it should be, my eyes don't always see': a qualitative exploration of the stress process for those living with posterior cortical atrophy. *BMJ Open*, 8e018663. doi:10.1136/bmjopen-2017-018663.
- Hawkins, J. (2004) *On Intelligence*, New York: Holt Paperbacks, Henry Holt & Co
- Hunt, L.A. & Bassi, C.J. (2010). Near-vision acuity levels and performance on neuropsychological assessments used in occupational therapy. *American Journal of Occupational Therapy*, 64, 105-113.
- Kandel, E.R., & Wurtz, R.H. (2000). Constructing the visual image. In E.R. Kandel, J.H. Schwartz & T.M. Jessell (Eds.). *Principles of neural science* (4th ed.) (pp. 492-506). New York: McGraw-Hill.
- Kennedy K.M. & Razm N. (2009). Aging white matter and cognition: Differential effects of regional variations in diffusion properties on memory, executive functions, and speed. *Neuropsychologia*, 47, 916-927.
- Locher, P.J. & Bigelow, D.L. (1983). Visual exploratory activity of hemiplegic patients viewing the motor-free visual perception test. *Perceptual & Motor Skills*, 57, 91-100.
- Milner, A.D., & Goodale, M.A. (2008). Two visual systems re-viewed. *Neuropsychologia*, 46, 774-785.
- Norton, D. & Stark, L (1971). Scanpaths in eye movements during pattern perception. *Science*, 171:308-311.
- Sergent, J. (1984). Inferences from unilateral brain damage about normal hemispheric functions in visual pattern recognition, *Psychological Buletin*, 96, 99-115.
- Semmes J., Weinstein S., Ghent L.,& Teuber H. (1963). Correlates of impaired orientation in personal and extrapersonal Space. *Brain*, 86, 747-771.

Skeel, R.L., Schutte, C., van Voorst, W., & Nagra, A. (2006). The relationship between visual contrast sensitivity and neuropsychological performance in a healthy elderly sample. *J Clin & Exper Neuropsychology*, 28, 696–705

Post, R.B. & Leibowitz, H.W. (1986). Two modes of processing visual information: Implications for assessing visual impairment. *American Journal Optometry & Physiological Optics*, 63,94-96.

Squire, L.R. & Kandel, E.R. (2009). *Memory: from mind to molecules*. 2nd ed. Greenwood Village Colorado: Roberts and Company Publishers.

Summerfield, J.J., Hassabis, D., & Maguire, E.A. (2010). Differential engagement of brain regions within a ‘core’ network during scene construction. *Neuropsychologia*, 48, 1501-1509.

Toglia, J.P. (1989). Visual perception of objects; An approach to assessment and intervention. *American Journal Occupational Therapy* 43, 587-596.

Toglia, J.P. (1991). Generalization of of treatment: A multicontext approach to cognitive impairment in adults with brain injury. *American Journal Occupational Therapy*, 45, 505-516.

Warren, M. (1981). Relationship of constructional apraxia and body scheme disorders to dressing performance in adult CVA, *American Journal Occupational Therapy*,35,431-442.

Yarbus, A.L. (1967). Eye movements during perception of complex objects. In *Eye Movements and Vision*, New York: Plenum Press, p. 171-217.

Contrast Sensitivity

Arditi, A. (2005). Improving the design of the letter contrast sensitivity chart. *Investigative Ophthalmology & Visual Science*, 46(6), 2225-2229. doi:10.1167/iovs.04-1198.

Bodis-Wollner, I. (1972). Visual acuity and contrast sensitivity in patients with cerebral lesions. *Science*, 178, 769-771.

Bodis-Wollner, I., & Diamond, S.P. (1976). The measurement of spatial contrast sensitivity in cases of blurred vision associated with cerebral lesions. *Brain*, 99, 695-710.

Bulens, C., Meerwaldt, J.D., Van Der wildt, G. J. & Keemink, C.J. (1989). Spatial contrast sensitivity in unilateral cerebral lesions involving the posterior visual pathway. *Brain*, 112:507-512.

Derefeldt G., Lennerstrand, G. & Lundh, B. (1979). Age variations in normal human contrast sensitivity. *Acta Ophthalmologica*, 57,679-691.

Eperjesi, F., Fowler, C.W., & Evans, B.J.W. (2002). Do tinted lenses or filters improve visual performance in low vision? A review of the literature. *Ophthalmic, Physiology & Optometry*, 22, 68-77.

Owsley, C. (2003). Contrast sensitivity. *Ophthalmology Clinics of North America*, 16, 171-177.

Spiegel, D.P. Reynaud, A., Ruiz, T., Lague-Beauvais, Hess, R. (2016). First-and second-order contrast sensitivity functions reveal disrupted visual processing following mild traumatic brain injury. *Vision Research*, 122,43-50.

Wolffsohn, J.S., Cochrane, A.L., Khoo, H., Yoshimitsu, Y., & Wu, S. (2000). Contrast is enhanced by yellow lenses because of selective reduction of short-wavelength light. *Optometry & Vision Science*, 77(2), 73-81.

Oculomotor

- Albilali, A. & Dilli, E. (2018). Photophobia: When light hurts, a review. *Current Neurology & Neuroscience Reports*, 18(62), <https://doi.org/10.1007/s11910-018-0864-0>
- Alvarez, T.L., Kim, E.H., Vicci, V.R., Dhar, S.K., Biswal, B.B., ...Barrett, A.M. (2012). Concurrent vision dysfunctions in convergence insufficiency with traumatic brain injury. *Optometry & Vision Science*, 89(12). doi:10.1097/OPX.0b013e3182772dce.
- Astafiev, S.V., Zinn, K. L. Shulman, G. L. Corbetta, M. (2016). Exploring the physiological correlates of chronic mild traumatic brain injury symptoms *NeuroImage: Clinical* 11, 10-19.
- Baker, R.S. & Epstein, A.D. (1991). Ocular motor abnormalities from head trauma, *Survey Ophthalmol*, 36:245-267.
- Brahm, K.D. , Wilgenburg, H.M., Kirby, J., Ingalla, S., Change, C-Y, Goodrich, G.L. (2009). Visual impairment and dysfunction in combat-injured servicemembers with traumatic brain injury. *Optom & Vis Science*, 86, 817-825.
- Burgess, G., & Jewell, V.D. (2018). Occupational therapists' perspectives on binocular diplopia in neurorehabilitation: A national survey. *NeuroRehabilitation*, 42, 223-233. DOI: 10.3233/NRE-172263
- Callahan, M.L. & Lim, M.M. Sensory sensitivity in TBI: Implications for chronic disability, *Current Neurology and Neuroscience Reports* (2018) 18: 56 <https://doi.org/10.1007/s11910-018-0867-x>
- Ciuffreda, K.J., Yadav, N.K., Ludlum, D.P. (2017 Review: Binasal occlusion (BNO), visual motion sensitivity (VMS), and the visually-evoked potential (VEP) in mild traumatic brain injury and traumatic brain injury, *Brain Sciences*, 7(98), doi: 10.3390/brainsci708098
- Ciuffreda, K.J., Joshi, N.R., Truong, J.Q., (2017). Understanding the effects of mild traumatic brain injury on the pupillary light reflex. *Concussion*, CNC36. 10.2217/cnc-2016-0029
- Ciuffreda, K.J. Yadav, Y. K., & Ludlam, D. P. (2012). Effect of binasal occlusion (BNO) on the visual-evoked potential (VEP) in mild traumatic brain injury (mTBI). *Brain Injury*, 1-7 early online.
- Ciuffreda, K., Rutner, D., Kapoor, N., Suchoff, I., Craig, S. & Han, M.E. (2008). Vision therapy for oculomotor dysfunctions in acquired brain injury: A retrospective analysis. *Optometry*, 79, 18-22.
- Ciuffreda, K.J., Kapoor, N., Rutner, D., Suchoff, I.R., Han, M.E., & Craig, S. (2007). Occurrence of oculomotor dysfunctions in acquired brain injury: A retrospective analysis. *Optometry*, 78, 155-161.
- Ciuffreda, K.J., Yadav, N.K., Han, E., Ludlum, D.P., Peedle, A., Hulse, P....Han, J. (2012). Distance perception in mild traumatic brain injury (mTbi). *Optometry*, 83(4), 127-136.
- Clark, J., Hasselfeld, K., Bigsby, K., Divine, J. (2017). Colored glasses to mitigate photophobia symptoms posttraumatic brain injury, *Journal Athletic Training*, 53(8), 725-729. doi: 10.4085/1062-6050-52.4.04
- Cockerman, G.D., Goodrich, G.L., Weichel, E.D., Orcutt, J.C., Rizzo, J.F., Bower, K.S. Schuchard, R.A. (2009). Eye and visual function in traumatic brain injury. *Journal of Rehabilitation Research & Development*, 46(6), 811-818.
- Coello, A.F., Canals, A.G., Gonzalez, J.M. & Martin, J.J.A. (2010). Cranial nerve injury after minor head trauma. *Journal of Neurosurgery*, 113, 547-555.
- Cohen, A.E., & Soten, R. (1981). An optometric approach to the rehabilitation of the stroke patient. *Journal of the American Optometric Association*, 52, 795-800.

- Cohen, M., Groswasser, Z., Barchadski, R., & Appel, A. (1989). Convergence insufficiency in brain-injured patients. *Brain Injury*, 2, 187-191.
- Conrad, J.S., Mitchell, G.L., Kulp, M.J. (2017). Vision therapy for binocular dysfunction post brain injury. *Optometry & Vision Science*, 94(1), 101-107
- Crowdy, K.A., Kaur-Mann, D., Cooper, H.L., Mansfield, A.G., Offord, J.L., Marple-Horvat, D.E. (2002). Rehearsal by eye movement improves visuomotor performance in cerebellar patients. *Experi Brain Res*, 146, 244-247.
- Dhaliwal, A., West, A.L., Trobe, J.D., Musch, D.C. (2006). Third, fourth, and sixth cranial nerve palsies following closed head injury. *Journal of Neuro-Ophthalmology*, 26, 4-10.
- Doble, J.E., Feinberg, D.L., Rosner, M.S. Ronser, A.J. (2010) Identification of binocular vision dysfunction (vertical heterophoria) in traumatic brain injury patients and effects of individualized prismatic spectacle lenses in the treatment of postconcussion symptoms: A retrospective analysis. *PM&R* 2(4),244-253.
- Fimreite, V., Willeford, K.T., Ciuffreda, K.J. (2016). Effect of chromatic filters in visual performance in individuals with mild traumatic brain injury (mTBI): A pilot study. *Journal of Optometry*, 9, 231-239.
- Fricke, T.R. et al. (2018). Global prevalence of presbyopia and vision impairment from uncorrected presbyopia: Systematic review, meta-analysis and modelling. *Ophthalmology*, 125, 1492-1499. Open access.
- Gallaway, M. Scheiman, M., Mitchell, G.L. (2017). Vision therapy for post-concussion vision disorders. *Optometry & Vision Science*, 94(1), 68-73. DOI:1040-5488/17/9401-0068/0
- Gianutsos, R., Ramsey, R., & Perlin, R.R. (1988). Rehabilitative optometric services for survivors of acquired brain injury, *Archives of Physical Medicine & Rehabilitation*, 69, 573-578.
- Gianutsos, R., Perlin, R., Mazerolle, K.A., Trem, N. (1989). Rehabilitative optometric services for persons emerging from coma. *Journal Head Trauma Rehabilitation*, 2, 17-25.
- Goldberg, M.E. (2000). The control of gaze. In E.R. Kandel, J.M. Schwartz, T.M. Jessell TM, (Eds). *Principles of neural science*, edition 4, New York: McGraw-Hill.
- Green, W., Ciuffreda, K.J., Thiagarajan, P., Szymanowix, D., Ludlam. D.P., Kapoor, N. (2010). Static and dynamic aspects of accommodation in mild traumatic brain injury: a review. *Optometry*, 81, 129-136.
- Han, Y., Ciuffreda, K.J., & Kapoor, N. (2004). Reading-related oculomotor testing and training protocols for acquired brain injury in humans. *Brain Research Protocols*, 14, 1-12.
- Han, M.H.E., Craig, S.B., Rutner, D., Kapoor, N., Ciuffreda, K.J., Suchoff, I.B. (2008). Medications prescribed to brain injury patients: A retrospective analysis. *Optometry*, 79, 252-258.
- Hensil, J. & Gurwood, A.S. (2000). Understanding nystagmus. *Clinical Care*, 71 (7) 439-448.
- Houston, K.E. & Barrett, A.M. (2016). Patching for diplopia contraindicated in patients with brain injury? *Optometry & Vision Science*, 94(1), electronic version.
- Jackson, D.H. & Bedell, H.E, (2012), Vertical heterophoria and susceptibility to visually-induce motion sickness, *Strabismus*, 20(1), 17-23. doi:10.3109/09273972.2011.650813

- Jung, D.S. & t, K.P. (2004). Post traumatic bilateral internuclear ophthalmoplegia with exotropia, *Archives of Neurology*, 60: 429-
- Kapoor, N., Ciuffreda, K.J., Han, Y. (2004). Oculomotor rehabilitation in acquired brain injury: A case series. *Archives of Physical Medicine & Rehabilitation*, 85, 1667-1678.
- Karatas, M. (2009). Internuclear and supranuclear disorders of eye movements: Clinical features and causes. *European Journal of Neurology*, 16, 1265-1277.
- Keane, J.R. (1993). Fourth nerve palsy: historical review and study of 215 inpatients. *Neurology*, 43, 2439-2443.
- Kraus, J., Schaffer, K., Ayers, K., Stenebjem, J., Shen, H. (2005). Physical complaints, medical service use, and social and employment changes following middle traumatic brain injury. *J Head Trau & Rehabil*, 20(3), 239-256
- Iliescu, D.A., Mihaela, T. M., Alexe, N., Gosav, E., De Simone, A., Batras, M., Stefan, C (2017). Management of diplopia, *Romanian Journal of Ophthalmology*, 61(3), 166-170. Doi: 10.22336/rjo.2017.31
- Laukkanen, H., Scheiman, M., Hayes, J.R. (2017). Brain injury vision symptom survey (BIVSS) questionnaire, *Optometry & Vision Science*, 94(1), 43-50.
- Leigh, R.J. & Zee, D.S. (2006). *Neurology of eye movements*, (4th edition). New York: University Oxford Press.
- Ludlam, W.M. (1996). Rehabilitation of traumatic brain injury associated with visual dysfunction-a case report. *NeuroRehabilitation*, 6, 183-192.
- Muller-Ochring, E.M., Kasten, E., Poggel, D.A., Schulte, T., Strasburger, H. & Sabel, B.A. (2003). Neglect and hemianopia superimposed. *Journal of Clinical & Experimental Neuropsychology*, 25, 1154-1168.
- Neger, R.E. (1989). The evaluation of diplopia in head trauma. *Journal Head Trauma Rehabil*, 4, 27-34.
- Park, U-C, Kim, S-J, Hwang, J-M, Yu, Y.S. (2008). Clinical features and natural history of acquired third, fourth, and sixth cranial nerve palsy, *Eye*, 22, 691-696.
- Patel, I. & West, S. K. (2007, Sep). Presbyopia: prevalence, impact and intervention, *Community Eye Health*, 20(63), 40-14. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2040246/pdf/jceh_20_63_040.pdf
- Phillips, P.P. (2007). Treatment of diplopia, *Seminars in Neurology*, 27, 288-298, Doi: 10.1055/s-2007-979680.
- Ron, S., Najenson, T., Hary, D., Pryworkin, W. (1978). Eye movements in brain damaged patients, *Scandinavian Journal Rehabilitation Medicine* 10, 39-44.
- Rosner, M.S., Feinberg, D.L., Doble, J.E., & Rosner, A.J. (2016). Treatment of vertical heterophoria ameliorates persistent post-concussive symptoms: A retrospective analysis utilizing a multi-faceted assessment battery, *Brain Injury*, 30(3), 311-317. DOI: 10.3109/02699052.2015.1113564
- Rowe, F. (2011). Prevalence of ocular motor cranial nerve palsy and associations following stroke. *Eye*, 25, 881-887.
- Rowe, F.J., Hanna, K., Evans, J.R., Noonan, C.P., Garcia-Finana, M., Dodridge, C.S., Howard, C., Jarvis, K.A., MacDiamid, S.L., Maan, T. North, L. Rodgers, H. (2018). Interventions for eye movement disorders to acquired brain injury. *Cochrane Database of Sytematic Reviews*, Issue 3. Art. No.: CD011290. DOI: 10.1002/14651858.CD011290.PU2.

- Rutstein, R. (2010). Use of Bangert filters with adults having diplopia, *Optometry*, *81*, 387-393
- Rucker, J.C., & Tomsak, R.L. (2005). Binocular diplopia: A practical approach. *The Neurologist*, *11*, 98–110.
- Scheiman, M.M., Talasan, H, Mitchell, G.L., Alvarez, T.L. (2017). Objective assessment of vergence after treatment of concussion-related CI: A pilot study. *Optometry & Vision Science*, *94*(1), 74-88.
- Scheiman, M. Mitchell, G.L., Cotter, S., Kulp, M.T., Cooper, J. Rouse, M. ...Wensveen, J. (2005). A randomized clinical trial of vision therapy/orthoptics versus pencil pushups for the treatment of convergence insufficiency in young adults. *Optometry & Vision Science*, *82*(7), E583-E595.
- Thiagarajan, P. & Ciuffreda, K.J. (2014). Versional eye tracking in mild traumatic brain injury (mTBI): Effects of oculomotor training (OMT). *Brain Injury*, *28*(7), 930-973. DOI: 10.3109/02699052.2014.888761
- Thiagarajan, P. & Ciuffreda, K.J. (2014) Effect of oculomotor rehabilitation on accommodative response in mild traumatic brain injury. *Journal Research, Rehabilitation & Disability*, *51*(2), 175-192.
<http://dx.doi.org/10.1682/JRRD.2013.01.0027>
- Thiagarajan,, P., Ciuffreda, K.J. & Ludlam, D.P. (2011). Vergence dysfunction in mild traumatic brain injury (mTBI): A review. *Ophthalmic & Physiological Optics*. *31*, 456-468. doi: 10.1111/j.1475-1313.2011.00831.x
- Thiagarajan, P. & Ciuffreda , K.J. (2015) Short-term persistence of oculomotor rehabilitative changes in mild traumatic brain injury (mTBI): A pilot study of clinical effects, *Brain Injury*, *29*(12), 1475-1479, DOI: 10.3109/02699052.2015.1070905
- Thiagarajan, P, & Ciuffreda , K.J. (2015) Pupillary responses to light in chronic non blast induced mTBI, *Brain Injury* *29*(12), DOI: 10.3109/02699052.2015.1045029
- Trieu, L.H. & Lavrich, J.B. (2018), Current Concepts In Convergence Insufficiency, *Current Opinion in Ophthalmology*, *29*(5)401-406, doi: 10.1097/ICU.0000000000000502.
- Truong, J.Q., Ciuffreda,, K.J. Han, M.H.E., Suchoff, I.B. (2014) Photosensitivity in mild traumatic brain injury (mTBI): A retrospective analysis, *Brain Injury*, *28*(10), 1283-1287, DOI: 10.3109/02699052.2014.91598
- Truong, J.Q.,& Ciuffreda, K.J. (2016). Comparison of pupillary dynamics to light in the mild traumatic brain injury (mTBI) and normal populations, *Brain Injury*, *30* (11), 1378-1389, DOI: 10.1080/02699052.2016.1195922
- Ventura, R.E. (2014). The neuro-ophthalmology of head trauma. *Lancet Neurology*, *13*, 1006-1016.
- Van Vliet, A.G.M. (1987). *Beside Examination*. In *Eye Movement Disorders*, EACM Sanders, RJW De Keizer, and DS Zee (Eds). Boston, Martinus Nijhoff Dr W. Junk Publishers, 49-60.
- Van Stevern, G.P., Biousse, V., Lynn, M.J., Simon, D.J., Newman, N.J. (2001). Neuro-ophthalmic manifestations of head trauma. *Journal of Neuro-ophthalmology*, *21*(2), 112-177.
- Willard, A. & Lueck, C.J. (2014). Ocular motor disorders. *Current Opinion in Ophthalmology*, *27*, 75-82.
- Woodruff, M.M., & Edlow, J.A. (2008). Evaluation of third nerve palsy in the emergency department. *Journal of Emergency Medicine*, *35*, 239-246.

Wu, Y., & Hallet, M. (2017). Photophobia in neurologic disorders. *Translational Neurodegeneration* 6(26) DOI 10.1186/s40035-017-0095-3

Visual Field Deficit

Aimola, L., Lane, A.R., Smith, D.T., Kerkhoff, G., Ford, G.A., Shenk, T. (2014). Efficacy and feasibility of home-based training for individuals with homonymous visual field defects. *Neurorehabilitation & Neural Repair*, 28(3), 207-218.

Anderson, B.R. (1987). *Perimetry With and Without Automation*, Ed 2, St Louis: CV Mosby.

Ball, K., Beard, B., Roenker, D., Miller, R., & Griggs, D. (1988). Age and visual search: expanding the useful field of view, *Journal of Optometric Society of America*, 5, 2210-2218

Balliet, R., Blood, K., & Bach-Y-Rita, P. (1985). Visual field rehabilitation in the cortically blind? *Journal of Neurology, Neurosurgery, Psychiatry*. 48, 1113-1124.

Behrmann, M., Shomstein, S.S., Black, S.E., & Baron, J.S.S. (2001). The eye movements of pure alexic patients during reading and nonreading tasks, *Neuropsychologia* 39,983-1002.

Bolognini, N., Rasi, F., Coccia, M., & Ladavas, E. (2005). Visual search improvement in hemianopic patients after audio-visual stimulation, *Brain*, 128, 2830-2842.

Bouwmeester, L., Heutink, J., & Cees, L. (2007). The effect of visual training for patients with visual field defects due to brain damage: a systematic review. *Journal of Neurology, Neurosurgery & Psychiatry*, 78, 555-564.

Bowers, A., Peli, E., Elgin, J., McGwin, G., & Owsley, C. (2005). On-road driving with moderate visual field loss. *Optometry & Vision Science*, 82, 657-667.

Bosley, T.M., Dann, R., Silver, F.L., Alavi, A., Kushner, M., Chawlul, J.B., Savino, P.J., Sergott, R.C., Schotz, N.J., Reivich, M. (1987). Recovery of vision after ischemic lesions: positron emission tomography, *Annals Neurology*, 21, 444-450.

Binder, J.R., Lazar, R.M., Tatemichi, T.K., Mohr, J.P., Desmond, D.W., & Ciecierski, K.A. (1992). Left hemiparalexia. *Neurology*, 42,562-569.

Brendler, K., Trauzettel-Klosinski, S. & Sadowski, B. (1996). Reading disability in hemianopic field deficits the significance of clinical parameters, *Investigative Ophthalmology & Vision Science*. 37, S1079.

Bruce, B.B., Zhang, X., Kedar, S., Newman, N.J., & Biousse, V. (2006). Traumatic homonymous hemianopia. *Journal of Neurology, Neurosurgery & Psychiatry*, 77, 986-988.

Cole, M. (1999). When the left brain is not right the right brain may be left: Report of personal experience with occipital hemianopia. *Journal Neurology, Neurosurgery, Psychiatry*, 67, 169-173.

Costela, F.M, Sheldon, S.S., Walker, B., Woods, R.L. (2018). People with hemianopia report difficulty with TV, computer, cinema use and photography, *Optometry & Vision Science*, 95, 428-434
doi:10.1097/OPX.0000000000001215

Di Pace, E., Guariglia, C., Judica, A., Spinelli, D., Zoccolotti, P. (1995). Selective reading slowness in a traumatic patient with impairment in basic visual processes. *Journal Clinical Experimental, Neuropsychology*,17,878-99.

- de Haan, G.A., Heutink, J., Melis-Dankers, B.J.M., Tucha, O., Brouwer, W.H. (2014) Spontaneous recovery and treatment effects in patients with homonymous visual field defects: A meta-analysis of existing literature in terms of the ICF framework. *Survey of Ophthalmology*, 59, 77-96
- De Haan, G.A., Mells-Dankers, B.J.M., Brouwer, W.H., Tucha, O., Heutink, J (2015). The Effects of Compensatory Scanning Training on Mobility in Patients with Homonymous Visual Field Defects: A Randomized Controlled Trial , PLoS ONE, DOI:10.1371/journal.pone.0134459
- De Haan GA, Melis-Dankers BJM, Brouwer WH, Bredewoud RA, Tucha O, Heutink J. Car driving performance in hemianopia: an on- road driving study.(2014). *Investigative Ophthalmology & Vision Science*. 55, 6482–6489. DOI: 10.1167/iovs.14-1
- De Haan, G.A., Mells-Dankers, B.J.M., Brouwer, W.H., Tucha, O., Heutink, J. J (2016) The Effects of Compensatory Scanning Training on Mobility in Patients with Homonymous Visual Field Defects: Further Support, Predictive Variables and Follow-Up. PLoS ONE 11(12): e0166310. doi:10.1371/journal.pone.0166310
- De Haan, G.A., Heutink, J., Melis-Dankers, B. J.M., Tucha, O., Brouwer, W.H. (2014). Spontaneous recovery and treatment effects in patients with homonymous visual field defects: A meta-analysis of existing literature in terms of the ICF framework. *Survey of Ophthalmology*, 59, 77-96.
- de Jong, D., Kaufmann-Ezra S., Meichtry, J.R. von Arx, S., Cazzoli, D., Gutbrod, K., Müri, R.M. (2016). The influence of reading direction on hemianopic reading disorders, *Journal of Clinical & Experimental Neuropsychology*, 38,(10), 1077–1083 <http://dx.doi.org/10.1080/13803395.2016.1189884>
- Freiman, et al. (2004). Complex visual hallucinations (Charles Bonnet syndrome) in visual field defects following cerebral surgery: Report of four cases. (2004). *Journal of Neurosurgery*, 101, 846-853.
- Gassel, M.M., Williams, D. (1963). Visual function in patients with homonymous hemianopia: part II oculomotor mechanisms. *Brain*, 86, 1-36.
- Gilhotra, J.S., Mitchell, P., Healey, P.R., Cumming, R.G. Currie, J. (2002). Homonymous visual field defects and stroke in an older population. *Stroke*, 33, 2417-2420.
- Giorgi, R.G., Woods, R.L. & Peli, E. (2009). Clinical and laboratory evaluation of peripheral prism glasses for hemianopia. *Optometry & Vision Science*, 86. 492-502.
- Hess, R.F., & Pointer, J.S. (1989). Spatial and temporal contrast sensitivity in hemianopia, *Brain*, 112, 871-894.
- Howard, & Rowe (2018). Adaptation to poststroke visual field loss: A systematic review, *Brain & Behavior*, DOI: 10.1002/brb.31041
- Ishial, S., Furukawa, T. & Tsukagoshi, H. (1987). Eye-fixation patterns in homonymous hemianopia and unilateral spatial neglect, *Neuropsychologia*, 25, 675-679.
- Jamara, R.J., Van De Velde, F., & Peli, E. (2003). Scanning eye movements in homonymous hemianopia documented by scanning laser ophthalmoscope retinal perimetry. *Optometry & Vision Science*, 80 (7), 495-504.
- Johnson. C.A., Keltner, J.L. (1983). Incidence of visual field loss in 20,000 eyes and its relationship to driving performance. *Archives of Ophthalmology*. 101: 371-375.
- Kasneji, E., Sippel, K., Heister, M., Aehling, K., Rosenstiel, W., Scheifer, U., Papageorgious, G. (2014).

- Homonymous visual field loss and its impact on visual exploration: A supermarket study. *Translational Visual Science & Technology*, 3(6) article 2, 1-10.
- Kasten, E., Poggel, D.A., & Sabel B.A. (2000). Computer-based training of stimulus detection improves color and simple pattern recognition in the defective field of hemianopic subjects. *J Cogn Neurosci*, 12 (6), 1001-1012.
- Kedar, S., Zhang, X., Lynn, M.J., Newman, N.J., & Biousse, V. (2007). Congruency in homonymous hemianopia. *American Journal of Ophthalmology*, 143, 772-780.
- Kedar, S., Zhang, X., Lynn, M.J., Newman, N.J. & Biousse, V. (2006). Pediatric homonymous hemianopia, *Journal American Association Pediatric Ophthalmology & Strabismus*, 10, 249-252.
- Kerkhoff, G. (2000). Neurovisual rehabilitation: recent developments and future directions. *Journal Neurology Neurosurgery & Psychiatry*, 68,691-706
- Kerkhoff, G., MunBinger, U., Meier, E.K. (1994). Neurovisual rehabilitation in cerebral blindness. *Archives Neurology*, 51, 474-481.
- Kerkhoff, G., Artinger, F., & Ziegler, W. (1999). Contrasting spatial hearing deficits in hemianopsia and spatial neglect, *Neuroreport*,10, 3555-3560.
- Kerkhoff, G. (1999). Restorative and compensatory therapy approaches in cerebral blindness-a review. *Restorative Neurology & Neuroscience*, 15, 255-27.
- Kettunen, J.E., Nurmi, M., Dastidar, P., Jehkonen, M. (2012). Recovery from visual neglect after right hemisphere stroke: Does starting point in cancellation tasks change after 6 months? *The Clin Neuropsychol*, 26(2), 305-320.
- Lane, A.R., Smith, D.T., Ellison, A., Schenk, T. (2010). Visual exploration training is no better than attention trainin for treating hemianopsia. *Brain* doi:10.1093/brain/awq088
- Lane, A.R. Smith, D.T., & Schenk, T. (2008). Clinical treatment options for patients with homonymous visual field defects. *Clinical Ophthalmology*, 2(1), 93-102.
- Leff, A.P., Behrmann, M. (2008). Treatment of reading impairment after stroke. *Curr Opin Neurol*, 21, 644-648.
- Leff, A.P., Scott, S.K., Crewes, H., Hodgson, T.L., Cowey, A., Howard, D., & Wise, R.J. (2000). Impaired reading in patients with right hemianopia. *Annals of Neurology*, 47, 171-178.
- Leff, A.P., et al (2001). The functional anatomy of single-word reading in patients with hemianopic and pure alexia, *Brain*, 124, 510-521.
- Lovsund, P., Hedin, A., & Tornros, J. (1991). Effects of driving performance of visual field defects: a driving simulator study. *Accid Anal Prev*;23,331-42.
- Levine, D.H. (1990). Unawareness of visual and sensorimotor deficits: a hypothesis, *Brain & Cogn*, 13, 233-281.
- Machner, B., Sprenger, A., Sander, T., Heide, W., Kimmig, H., et al. (2009). Visual search disorders in acute and chronic homonymous hemianopia: lesion effects and adaptive strategies. *Ann NY Acad Sci*, 1164, 419-426.

- Mannam, S.K., Alidz, L., Pambakian, M., Kennard, C. (2010). Compensatory strategies following visual search training in patients with homonymous hemianopia: An eye movement study. *Journal Neurology*, 257, 1812-1821. DOI 10.1007/s00415-010-5615-3
- Martin, T., Riley, M.E., Kelly, K.N., Hayhoe, M., Huxlin, K.R. (2007). Visually-guided behavior of homonymous hemianopes in a naturalistic task. *Vision Research*, 47, 3434-3446.
- McDonald, S.A., Spitsyna, G., Shilcock, R.C., Wise R.J.S. & Leff, A.P. (2006). Patients with hemianopic alexia adopt an inefficient eye movement strategy when reading text. *Brain*, 129, 158-167.
- Meinenberg, V., Zangemeister, W.H., Rosenberg, M., Hoyt, W.F., Stark, L. (1981). Saccadic eye movement strategies in patients with homonymous hemianopia. *Annals of Neurology*, 9, 537-544.
- Mennem, T. A., Warren, M. & Yuen, H.K. (2012). Preliminary validation of a vision-dependent activities of daily living instrument on adults with homonymous hemianopia. *American J Occupational Therapy*, 64(4) 478-482.
- Miki, A., Nakajima, T, Fujita, M., Takagi, M., & Abe, H. (1996). Functional magnetic resonance imaging in homonymous hemianopsia. *American Journal Ophthalmology*, 121, 258-266.
- Nelles, G., Esser, J., Eckstein, A., Tieded, A., Horst, G., & Diener, C. (2001). Compensatory visual field training for patients with hemianopia after stroke. *Neuroscience Letters*, 306, 189-192.
- Nelles, G., de Greiff, A., Pscherer, A., Forsting, M., Gerhard, H., Esser, J., & Diener, C. (2007). Cortical activation in hemianopia after stroke. *Neuroscience Letters*, 426, 34-38.
- Nelles, et al. (2007). Saccade induced cortical activation in patients with post-stroke visula field defects. *Journal of Neurology*, 254, 1244-1252.
- Ong, Y-H, Brown, M.M., Robinson, P., Plant, G.T., Husain, M., Leff, A.P. (2012). Read-right: a “web app” that improves reading speeds in patients with hemianopsia. *Journal of Neurology*, 259, 2611-2615.
- Pambakian, A.L.M., Currie, J.& Kennard, C. (2005). Rehabilitation strategies for patients with homonymous visual field deficits. *Journal of Neuro-ophthalmology*, 25, 136-142.
- Pambakian, A.L.M, Wooding, D.S., Patel, N., Morland, A.B., Kennard, C., & Mannan, S.K. (2000). Scanning the visual world: a study of patients with homonymous hemianopia. *J Neurology, Neurosurgery & Psychiatry*, 69, 751-759
- Pambakian, A.L.M., Mannan, S.K., Hodgson, T.L., Kennard, C. (2004). Saccadic visual search training: a treatment for patients with homonymous hemianopia, *Journal Neurology, Neurosur, Psychiatry*, 75, 1443-1448.
- Pambakian, A.L.M & Kennard, C. (1997). Can visual function be restored in patients with homonymous hemianopia? *British Journal of Ophthalmology*, 81, 324-328.
- Parker, W.T., McGwin, G., Wood, J.M., Elgin, J. Vaphiades, M., Kline, LB. Owsley, C. (2011). Self-reported driving difficulty by persons with hemianopsia and quadrantanopsia. *Current Eye Research*. 36(3), 270-277.
- Paysse, E.A. & Coats, D.K. (1997). Anomalous head posture with early-onset homonymous hemianopia. *Journal of American Association Pediatric Ophthalmology & Strabismus*,1, 209-213.
- Pelak, V. S., Dubin, M., & Whitney, E. (2007). Homonymous hemianopia: A critical analysis of optical devices, compensatory training, and NovaVision. *Current Treatment Options Neurology*, 9(1), 41-47.

- Pelli, E. (2000). Field expansion for homonymous hemianopia by optically induced peripheral exotropia. *Optometry & Vision Science*, 77 (9), 453-464.
- Pollock A, Hazelton C, Henderson CA, Angilley J, Dhillon B, Langhorne P, ... Shahani U. (2011). Interventions for visual field defects in patients with stroke. *Cochrane Database of Systematic Reviews*, Issue 10. Art. No.: CD008388. DOI: 10.1002/14651858.CD008388.pub2.
- Pommerenke, K. & Markowitsch, H.J. (1989). Rehabilitation training of homonymous visual field defects in patients with postgeniculate damage of the visual system. *Restorative Neurology & Neuroscience*, 1, 47-63.
- Pouget, M-C, Levy-Bencheton, D., Prost, M. Tilikete, C., Husain, M. Jacquin-Courtois, S. (2012). Acquired visual field deficits rehabilitation: Critical review and perspective. *Annals Phys & Rehabilitation Medicine*, 55, 53-74.
- Racette, L., & Casson, E.J. (2005). The impact of visual field loss on driving performance: Evidence from on-road driving assessments. *Optometry & Vision Science*, 82, 668-674.
- Rayner, K., Well, A.D., & Pollatskek, A. (1980). Asymmetry of the effective visual field in reading. *Perception & Psychophysics*. 27 (6) 537-544.
- Reinhard, J., Schreiber, A., Schiefer, U., Kasten, E., Sabel, B.A., Kenkel, S., Vonthein, R., Trauzettel-Klosinski, S. (2006). Does visual restitution training change absolute homonymous visual field defects? A fundus controlled study. *British Journal Ophthalmology*, 89, 30-35.
- Romano, J.G. (2009). Progress in rehabilitation of hemianopic visual field defects. *Cerebrovascular Diseases*, 27(suppl 1), 187-190.
- Rowe, F.J. (2017). Stroke survivors' views and experiences on impact of visual impairment. *Brain & Behavior*, DOI:10.1002/brb3.778
- Rowe, F.J., Sueke, H., & Gawley, S.D. (2010) Comparison of Damato campimeter and Humphrey automated perimetry results in a clinical population. *British Journal Ophthalmology*, 94, 757-762. doi:10.1136/bjo.2009.161240
- Rowe F.J. et al. (2016) A pilot randomized controlled trial comparing effectiveness of prism glasses, visual search training and standard care in hemianopia. *Acta Neurol Scand*, 001-12 doi:10.1111/ane.12725
- Rowe, F.J. Wright, D., Brand, D., Jackson, C. Harrison, S., Maan, T....Freeman, C. (2013). A prospective profile of visual field loss following stroke: Prevalence, type, rehabilitation and outcome. *BioMed Research International*, 2013, e1-e12. <http://dx.doi.org/10.1155/2013/719096>
- Rondot, P., Odier, F., & Valade, D. (1992). Postural disturbances due to homonymous hemianopic visual ataxia, *Brain*, 115, 179-188.
- Sabel, B.A. & Trauzettel-Klosinski, S. (2005). Improving vision in a patient with hemianopia. *Journal of Neuro-Ophthalmology*, 25(2), 143-149.
- Sand, K.M., Midelfart, A. Thomassen, L. Melms, A., Wilhelm, H. Hoff, J.M. (2013). Visual impairment in stroke patients-a review. *Acta Neurologica Scandinavia*, 127, Sup 196, 52-56. DOI:10.1111/ane.12050
- Schofield, T. M., & Leff, A. P. (2009). Rehabilitation of hemianopia. *Current Opinion in Neurology*, 22(1), 36-40.

Smith, T.M., Pappadis, M.R., Krishman, S., Reistetter, T.A., (2018). Stroke survivor and caregiver perspectives on post-stroke visual concerns and long-term consequences. *Behavioral Neurology*, <https://doi-org/10.1155/2018/1463429>

Suhuet, S., Heywood, C.A., Kentridge, R.W., Daumer, R., Zihl, J. (2012). Rehabilitation of reading and visual exploration in visual field disorders: transfer or specificity? *Brain*, doi:10.1093/brain/awr356

Schuet, S. (2009). The rehabilitation of hemianopic dyslexia. *Nature Reviews/Neurology*, 5, 427-437.

Schuet, S., Heywood, C. A., Kentridge, R. W., & Zihl, J. (2008). Rehabilitation of hemianopic dyslexia: are words necessary for re-learning oculomotor control? *Brain*, 131(Pt 12), 3156-3168.

Schuet, S., Heywood, C.A., Kentridge, R.W., & Zihl, J. (2008). The significance of visual information processing in reading: Insights from hemianopic dyslexia. *Neuropsychologia*, 46, 2445-2462.

Schuet, S., Kentridge, R. W., Zihl, J., & Heywood, C. A. (2009). Are hemianopic reading and visual exploration impairments visually elicited? New insights from eye movements in simulated hemianopia. *Neuropsychologia*, 47(3), 733-746.

Sheldon, C.A., Abegg, M., Sekunova, A., Barton, J.J.S. (2012) The word-letter effect in acquired alexia and real and virtual hemianopia. *Neuropsychologia*, 50 841-851.

Silverstone, D.E., & Hirsch, J. (Eds.) (1986). *Automated visual field testing*. Norwalk CT: Appleton Century Crofts.

Spitzyna, G.A., Wise, R.J.S., McDonald, S.A. Plant, G.T., Kidd, D. Crewes, H. Leff, A.P., (2007). Optokinetic therapy improves text reading in patients with hemianopic alexia: A controlled trial, *Neurology*, 68, 1922-1930

Suchoff, I.B. Kapoor, N., Ciufredda, K.J., Rutner, D., Han, E. & Craig, S. (2008). The frequency of occurrence, types, and characteristics of visual field defects in acquired brain injury: A retrospective analysis. *Optometry*, 19, 259-265.

Szlyk, J.P., Seiple, W., Stelmack, J. & McMahon, T. (2005). Use of prisms for navigation and driving in hemianopic patients *Ophthalmology, Physiological Optics*, 25, 128-135.

Takeda, K. & Sugishita, M. (1994). Word length and error types in Japanese left side neglect dyslexia. *Clin Neuro & Neurosurg*, 97: 125-130.

Tant, M.L.M., Cornelissen, F.W., Kooijman, A.C., & Brouwer, W.H. (2002). Hemianopic visual field defects elicit hemianopic scanning. *Vision Research*, 42, 1339-1348.

Trauzettel-Klosinski, S. K., Brender, K., Sadowski, B., & Tornow, R.P. (1996). Reading strategies in hemianopic field defects assessed by SLO and infrared limbus tracker, *Investigative Ophthal & Vision Science*, 37, S1079.

Trauzettel-Klosinski, S., & Reinhard, J. (1998). The vertical field border in hemianopia and its significance for fixation and reading. *Investigative Ophthalmology & Vision Science*, 39, 2177-2186.

Trexler, L.E. (1998). Volitional control of homonymous hemianopsia. *Neuropsychologia*, 36, 573-580.

Trobe, J.D. et al (1981). Confrontation visual field techniques in the detection of anterior visual pathway lesions. *Annals Neurology*, 10, 28-34.

Upton, N.J., Hodgson, G.T., Wise R.J.S., Leff, A.P. (2003). "Bottom-up" and "top down" effects on reading

saccades: a case study. *Journal of Neurology, Neurosurgery, & Psychiatry*, 74, 1423-1428.

Van Stevern, G.P., Biouesse, V., Lynn, M.J., Simon, D.J., Newman, N.J. (2001). Neuro-ophthalmic manifestations of head trauma. *Journal of Neuro-ophthalmology*, 21(2), 112-177.

Vaphiades, M.S., Celesia, G.G., Brigell, M.G. (1996). Positive spontaneous visual phenomena limited to the hemianopic field in lesions of central visual pathways, *Neurology*, 47(2), 408-417.

Verlohr, D. & Dannheim, F. (2007). The visual performance test: Indications for compensational visual rehabilitation training and first results. *Strabismus*, 15, 63-68.

Warren, M. (2009). A pilot study on activities of daily living limitations in adults with hemianopsia. *American Journal of Occupational Therapy*, 63, 626-633.

Wong, A.M. & Sharpe, J.A. (1999). Representation of the visual field in the human occipital cortex: a magnetic resonance imaging and perimetric correlation. *Archives of Ophthalmology*, 117, 208-217.

Wood, J.M., McGwin, G., Elgin, J., Vaphiades, M.S., Braswell, R.A., DeCarlo, D.K. et al. (2011). Hemianopic and quadrantanopic field loss, eye and head movements and driving. *Invest Ophth & Vis Sci*, 52 (3), 1220-1225.

Wood, J.M., McGwin, G., Elgin, J., Vaphiades, M.S., Braswell, R.A., DeCarlo, D.K. et al. (2009). On-road driving performance by persons with hemianopia and quadrantanopia, *Invest Ophthal & Vis Science*, 59, 577-585.

Zangemeister, W.H., Meinenbert, O., Stark, L., Hoyt, W.F. (1982). Eye-head coordination in homonymous hemianopia. *Journal of Neurology*, 226, 32.

Zhang, X., Kadar, S., Lynn, M.J., Newman, N.J. & Biouesse, V. (2006). Homonymous hemianopsia in stroke. *Journal of Neuro-Ophthalmology*, 26, 180-183.

Zhang, X., Kadar, S., Lynn, M.J., Newman, N.J. & Biouesse, V. (2006). Natural history of homonymous hemianopia. *Neurology*, 66, 901-905

Zihl, J. (2011). *Rehabilitation of visual disorders after brain injury*. (2nd ed.) East Sussex, UK: Psychology Press

Zihl, J. (1995). Visual scanning behavior in patients with homonymous hemianopia, *Neurophyschol*, 33, 287-303.

Zihl, J: (1995). Eye movement patterns in hemianopic dyslexia, *Brain*, 118, 891-912.

Zihl, J: (1994). Rehabilitation of visual impairments in patients with brain damage. In Kooijian, AC, Looijestijn, PL, Welling JA, van der Wildt, GJ. Editors. Low vision: research and new development in rehabilitation, Amsterdam: IOS Press, 287-95.

Zihl, J., Von Cramon, D., & Mai, N. (1983). Selective disturbance of movement vision after bilateral brain damage. *Brain*, p. 313-340.

Hemi Inattention

Adair, J.C., & Barrett, A.M. (2008). Spatial neglect: Clinical and neuroscience review-A wealth of information on the poverty of spatial attention. *Annals of New York Academy of Science*, 1142, 21-43.

Albert, M.L. (1973). A simple test of visual neglect. *Neurology*, 23, 658-664.

Angeli, V., Benassi, M.G., & Ladavas, E. (2004). Recovery of oculo-motor bias in neglect patients after prism

adaptation. *Neuropsychologia*, 42,1223-1234.

Antonucci, G., Guariglia, C., Judica, A., Magnotti, L., Paolucci, S., Pizzamiglio, L., Zoccolotti, P. (1995). Effectiveness of neglect rehabilitation in a randomized group study, *J Clin Exp Neuropsychol* 17:383-389.

Arene, N.U., & Hillis, A.E. (2007) Rehabilitation of unilateral neglect and neuroimaging. *Europa Medicophysica* [Electronic Version] 43,(2), 255-269.

Aparicio-López,C., García-Molina, A. García-Fernández, Lopez-Blazquez, Enseñat-Cantalops, A. Sánchez-Carrión, Vega Muriel, R., Tormos. J.M., Roig-Rovira, T. (2015). Cognitive rehabilitation with right hemifield eyepatching for patients with sub-acute stroke and visuo-spatial neglect: A randomized controlled trial, *Brain Injury*, 29(4), 501-507, DOI: 10.3109/02699052.2014.995230

Azouvi, P., Olivier, S., de Montety, G., Samuel, C, Louis-dreyfus, A., Tesio, L. (2003). Behavioral assessment of unilateral neglect: Study of the psychometric properties of the Catherine Bergego scale. *Archives of Physical Medicine & Rehabilitation*, 84, 51-57.

Bailey, M.J., Riddoch, M.J., & Crome, P. (2002). Treatment of visual neglect in elderly patients with stroke: a single-subject series using either a scanning and cueing strategy or a left-limb activation strategy. *Physical Therapy*, 82(8), 782-797.

Barrett, A.M., Buxbaum, L.J., Branch Coslett, H., Edwards, E., Heilman, K.M., Hillis, A.E., Milberg, W. P., Robertson, I.H. (2006). Cognitive rehabilitation interventions for neglect and related disorders: Moving from bench to bedside in stroke patients. *Journal of Cognitive Neuroscience*, 187, 1223-1236.

Bartolomeo, P. (2007). Visual neglect. *Current Opinion in Neurology*,20, 381-386.

Barton, J.J., Behrmann, M., Black, S. (1998). Ocular search during line bisection. The effects of hemi-neglect and hemianopia, *Brain* 121, 1117-1131.

Barton, J.J., Black, S.E. (1998). Line bisection in hemianopia. *J Neuro Neurosurg Psychiatry* 66,122-123.

Becchio, C. & Bertone, C. (2006). Time and neglect: Abnormal temporal dynamics in unilateral spatial neglect. *Neuropsychologia*, 44, 2775-2782

Beis, J.M. et al. (2004). Right spatial neglect after left hemisphere stroke: Qualitative and quantitative study. *Neurology*, 63,1600-1605.

Beis, J.M., Andre, J.M., Baumgarten, A, Challier B. (1999). Eye patching in unilateral spatial neglect: efficacy of two methods. *Arch Phys Med Rehabil*, 80, 71-76.

Belleza, T., Rappaport, M., Hopkins, H.K., Hall, K. (1979). Visual scanning and matching dysfunction in brain damaged patients with drawing impairment, *Cortex*, 15;19-36.

Behrmann, M., Black, S.E., McKeef, T.J. & Barton, J.J.S. (2002). Oculographic analysis of word reading in hemispatial neglect, *Physiology & Behavior*, 77, 613-619.

Bernardi N.F.,Cioffi, M.C.,Ronchi, R. Maravita, A., Bricolo, E., Zigiotta,L. Perucca, L., Vallar, G. (2017). Improving left spatial neglect through music scale playing, *Journal of Neuropsychology*, 11, 135–158. DOI:10.1111/jnp.12078

Berger, M.F., Proz, R.D., Ilg, U., & Karnath, H-O. (2006). Deviation of eyes and head in acute cerebral stroke. *BMC Neurology*. Retrieved from: <http://www.biomedcentral.com/1471-2377/6/23>.

- Bodak, R., Malhotra, P., Bernardi, N.F., Cocchini, G & Stewart, L. (2014). Reducing chronic visuo-spatial neglect following right hemisphere stroke through instrument playing. *Frontiers in Human Neuroscience* 8(413), e1-7.
- Bonati, M. (2012). Neglect and extinction depend greatly on task demands: A review. *Frontiers in Human Neuroscience*, 6(195) 1-13 doi: 10.3389/fnhum.2012.00195
- Bowen, A., Lincoln, N.B., Dewey, M. (2003). Cognitive rehabilitation for spatial neglect following stroke. *Cochrane Database of Systematic Reviews*, 1, 1-41.
- Bisiach, E., Luzzatti, C., & Perani, D. (1979). Unilateral neglect, representational scheme and consciousness. *Brain*, 102, 609-618.
- Butler, B.C., Lawrence, M., Eskes, G.A., & Klein, R. (2009). Visual search patterns in neglect: Comparison of peripersonal and extrapersonal space. *Neuropsychologia*, 47, 869-878.
- Buxbaum, L.J., Ferraro, M.K., Veramonti, B.A., Farne, A., Whyte, J., Ladavas, E. et al. (2004). Hemispatial neglect: subtypes, neuroanatomy, and disability. *Neurology*, 62, 749-756.
- Calabria, M., Mlozso, A., Padovani, A., (Jacquin-Courtois, S., Rossetti, Y., Cotelli, M. (2011). Time perception in spatial neglect: A distorted representation? *Neuropsychology* 25, 193-200
- Cassidy, T.P., Lewis, S. & Gray, C.S. (1998). Recovery from visual spatial neglect in stroke patients. *Journal Neurology, Neurosurgery & Psychiatry*, 64, 555-557.
- Cassidy, T.P., Bruce, D.W., Lewis, S., Gray, C.S. (1999). The association of visual field deficits and visuo-spatial neglect in acute right hemisphere stroke patients. *Age, Ageing*, 28 (3), 257-260.
- Chedru, F., Leblanc, M., Lhermitte, F. (1973). Visual Searching in Normal and Brain Damaged Subjects. *Cortex*, 9:94-111.
- Chedru, F. (1976). Space representation in unilateral spatial neglect. *J Neuro, Neurosur & Psych*, 39:1057-1064.
- Chen, M-C, Tsai, P-L, Huang, Y-T, Lin, K-C. (2013). Pleasant music improves visual attention in patients with unilateral neglect after stroke. *Brain Injury*, 27(1), 75-82. DOI: 10.3109/02699052.2012.722255
- Chen Sea, M.J., Henderson, A., & Cermak, S.A. (1993). Patterns of visual spatial inattention and their functional significance in stroke patients. *Archives of Physical Medicine & Rehabilitation* 74, 355-60.
- Chen Sea, M.J. (2000). Validating the draw-a-man test as a personal neglect test. *Am J Occup Ther* 54, 391-397.
- Ciaramelli, E., Grady, C.L., Moscovitch, M. (2008). Top-down and bottom-up attention to memory: a hypothesis (A to M) on the role of the posterior parietal cortex in memory retrieval, *Neuropsychologia*, 46, 1828-1851.
- Cicerone, K.D., Dahlberg, C., Kalmar, K., Langenbahn, D.M., Malec, J.F., Bergquist, T.F. et al. (2000). Evidence-based cognitive rehabilitation: Recommendations for clinical practice. *Arch Phys Med & Rehabil*, 81, 1596-1615.
- Cicerone, K.D., Langenbahn, D.M., Braden, C., Malec, J.F., Kalmar, K., Fraas, M....Ashman, T. (2011). Evidence-based cognitive rehabilitation: Updated review of the literature from 2003 through 2008. *Archives of Physical Medicine & Rehabilitation*, 92, 519-530.
- Corbetta, M., Kincade, M.J., Lewis, C. Snyder, A.Z., & Sapir, A. (2005). Neural basis and recovery of spatial attention deficits in spatial neglect. *Nature Neuroscience*, 8, 1424-1425.

Dahmi, P. Moreno, S., & DeSouze, J.F.X. (2015). New framework for rehabilitation-fusion of cognitive and physical rehabilitation: the hope for dancing (review article). *Frontiers in Psychology* [electronic journal], 5 article 1479, 1-15, doi: 10.3389/fpsyg.2014.01478

Daini, R. et al.(2002). Exploring the syndrome of spatial unilateral neglect through an illusion of length, *Experimental Brain Research* 144, 224-237.

Dawson, D.R., Gaya, A., Hunt, A., Levine, B., Lemsky, C., Poltatajko, H.J. (2009). Using the cognitive orientation to occupational performance (CO-OP) with adults with executive dysfunction following traumatic brain injury. *Canadian Journal Occupational Therapy*, 72(2), 115-127.

Das, M, Bennett, D.M. & Dutton, G.N. (2007). Visual attention as an important visual function: An outline of manifestations, diagnosis and management of impaired visual attention. *British J of Ophthal*, 91, 1556-1560.

DeRenzi, E., Gentilini, M., Faglioni, P., Barbieri, C. (1989). Attentional shift towards the right most stimuli in patients with left visual neglect. *Cortex*, 25, 231-237.

Diamond, P. (2001). Rehabilitative management of post-stroke visuospatial inattention. *Disability and Rehabilitation*, 23(10),407-412.

Diller, L., & Weinberg, J. (1970). Evidence for accident prone behavior in hemiplegic patients. *Archives Physical Medicine & Rehabilitation*, 51,358-363.

Diller, L., Weinberg, J. (1977). Hemi-inattention in rehabilitation: the evolution of a rationale remediation program in *Advances in Neurology* New York: Raven Press.

Diller, L., & Weinberg, J. (1972). Differential aspects of attention in brain damaged persons, *Perceptual & Motor Skills*, 35, 71-81.

Danckert, J. & Ferber, S. (2006). Revisiting unilateral neglect. *Neuropsychologia*, 44, 987-1006.

DeGutis, J.M., & Van Vleet, TM, (2010). Tonic and phasic alertness training: A novel behavioral therapy to improve spatial and non-spatial attention in patients with hemispatial neglect. *Frontiers in Human Neuroscience*,4 (60). doi: 10.3389/fnhum.2010.00060

Doricchi, F., de Schotten, M.T., Tomaiuolo, F., Bartolemeo, P. (2008). White matter (dis)connections and gray matter (dys)functions in visual neglect: Gaining insights into the brain networks of spatial awareness. *Cortex*, 44, 983-995.

Farne, A., Buxbaum, L.J., Ferraro, M., Frassinetti, F., Whyte, J, Veramonti, O et al. (2004). Patterns of spontaneous recovery of neglect and associated disorders in acute right brain-damaged patients. *Journal Neurology Neurosurgery Psychiatry*, 75, 1401-1410.

Ferber, S. & Danckert, J. (2006). Lost in space-the fate of memory representations for non-neglected stimuli. *Neuropsychologia*, 44, 320-325.

Fierro, B., Brighina, f. & Bisiach, E. (2006). Improving neglect by TMS, *Behavioural Neurology*, 17, 169-176

Gainotti, G., Perri, R. & Cappa, A. (2001). Left hand movements and right hemisphere activation in unilateral neglect: a test of the interhemispheric imbalance hypothesis. *Neuropsychologia*, 40, 1350-1355.

- Gauthier, L., Dehaut, F., Yves, J. (1989). The bells test: A quantitative and qualitative test for visual neglect. *International Journal of Neuropsychiatry*, 11, 49-49. Available from: <http://www.medicine.ca/strokeengine-assess/index-en.html>
- Gialanella, B., Monguzzi, V., Santoro, R. Rocchi, S. (2005). Functional recovery after hemiplegia in patients with neglect: the rehabilitation role of anosognosia. *Stroke*, 36, 2687-2690.
- Gianutsos, R., & Matheson P (1987). The Rehabilitation of Visual Perceptual Disorders Attributable to Brain Injury In Meier MJ, Benton AL, Diller L (eds), *Neuropsychological Rehabilitation*. NY: Guilford Press, p 202-241.
- Gianutsos, R., Glosser, D., Elbaum, J., Vroman, G.M. (1983). Visual imperception in brain injured adults: multifaceted measures. *Archives Physical Medicine & Rehabilitation*, 64, 456-61.
- Gillen, R. Tennen, H. & McKee, T. (2005). Unilateral spatial neglect: Relation to rehabilitation outcomes in patients with right hemisphere stroke, *Archives of Physical Medicine & Rehabilitation*, 86, 763-767.
- Gouvier, W. D., Cottam, G., Webster, J.S., Beissel, G.F., Wofford, J.D. (1984). Behavioral interventions with stroke patients for improving wheelchair navigation. *International J Clinical Neuropsychology*, 3, 186-190.
- Guariglia, C., Piccardi, L., Iaria, G., Nico, D. & Pizzamiglio, L. (2005). Representational neglect and navigation inn real space. *Neuropsychologia*, 43, 1138-1143.
- Halligan, P.W., Marshall, J.C. & Wade, D.T. (1989). Visuospatial neglect: underlying factors and test sensitivity, *The Lancet*, October 14, 908-911.
- Hartman-Maeir, A. & Katz, N. (1995). Validity of the behavioral inattention test (BIT):relationship with functional tasks, *American Journal of Occupational Therapy*, 49, 507-516.
- Harvey, M., Hood, B., North, A. & Robertson, I.H. (2003). The effects of visuomotor feedback training on the recovery of hemispatial neglect symptoms: Assessment of a 2-week and follow-up intervention. *Neuropsychol*, 41, 886-893.
- Hegde, S. (2014). Music-based cognitive remediation therapy for patients with traumatic brain injury. *Frontiers in Neurology*, 5(34) e1-7.
- Heilman, K., Van Den Abel, T. (1980). Right Hemisphere Dominance for Attention: The Mechanism Underlying Hemispheric Asymmetries of Inattention (Neglect). *Neurology*, 30, 327-330.
- Heilman, K., & Valenstein, E. (1979). Mechanisms underlying hemispatial neglect, *Ann Neurology*, 5, 166-170.
- Hillis, A.E. (2006). Neurobiology of unilateral spatial neglect. *The Neuroscientist*, 12(3), 153-163.
- Hillis, A.E., Newhart, M., Heidler, J., Barker, P.B., Herskovits, E.H., Degaonkar, M. (2005). Anatomy of spatial attention: Insights from perfusion imaging and hemispatial neglect in acute stroke. *The Journal of Neuroscience*, 25 (12), 3161-3167.
- Hommel, M., Peres, B., Pollak, P., Memin, B., Besson, G., Gaio, J.M., Perret, J. (1990). Effects of passive tactile and auditory stimuli on left visual neglect *Archives Neurology*, 47, 573-576.
- Hommel, B., Li, K.Z.H., & Li, S. (2004). Visual search across the life span. *Developmental Psychology*, 40, 545-558.
- Husain, M. & Kennard, C. (1997). Distractor-dependent frontal neglect. *Neuropsychologia*, 35, 829-841.

Husain, M., Mannan, S., Hodgson, T., Wojciulik, E., Driver, J., Kennard, C. (2001). Impaired spatial working memory across saccades contributes to abnormal search in parietal neglect. *Brain* 124, 941-952.

Husain, M. & Rorden, C. (2003). Non-spatially lateralized mechanism in hemispatial neglect. *Nature Reviews-Neuroscience*, 4, 27-36

Ishiai, S. (2006). What do eye-fixation patterns tell us about unilateral spatial neglect? *Restorative Neurology & Neuroscience*, 24, 261-271.

Karnath, H-O, Rennig, J., Johannsen, L., Rorden, C. (2011). The anatomy underlying acute versus chronic spatial neglect: a longitudinal study. *Brain*, 134,903-912, doi:10.1093/brain/awq355.

Kerkhoff, G. & Schenk, T. (2012). Rehabilitation of neglect: An update. *Neuropsychologia*, 50, 1072-1079.

Kerkhoff, G. (2001). Spatial hemineglect in humans. *Prog Neurobiology*, 63,1-27.

Kerkhoff, G. (2000). Neurovisual rehabilitation: recent developments and future directions. *Journal Neurology Neurosurgery & Psychiatry*, 68, 691-706.

Kerkhoff, G. Schindler, I., Keller, I., & Marquardt, C. (1999). Visual background motion size distortion in spatial neglect. *Neuroreport*, 10(2), 318-323.

Kerkhoff, G. (1999). Multimodal spatial orientation deficits in left-sided visual neglect. *Neuropsych*, 37, 1387-1405.

Kleinman, J.T., Gottesman, R.F., Davis, C., Newhart, M., Heidler-Gary, J., Hillis, A.G. (2008). Gender differences in unilateral spatial neglect within 24 hours of ischemic stroke. *Brain & Cognition*, 68, 49-52.

Kleinman, J.T., Newhart, M., Davis, C., Heidler-Gary, J., Gottesman, R.F. Hillis, A.E. (2007). Right hemispatial neglect: Frequency and characterization following acute left hemisphere stroke. *Brain Cognition*, 64, 50-59.

Klinke, M.E. Zahavi, D. Hjaltason, H. Thorsteinnsson B. Jonsdottir, H. (2015). "Getting the left right:" The experience of hemispatial neglect after stroke. *Qualitative Health Research*, 1-14.

Klinke, M.E. Hjaltason H., Hafsteinsdóttir, T.B., Jónsdóttir, H. (2016) Spatial neglect in stroke patients after discharge from rehabilitation to own home: a mixed method study, *Disability & Rehabilitation*, 38(25), 2429-2444, DOI: 10.3109/09638288.2015.1130176

Kooistra, C.A. & Heilman, K.M. (1989). Hemispatial visual inattention masquerading as hemianopsia. *Neurology*, 39, 1125-1127.

Ladavas, E. et al (1997). Neglect as a deficit determined by an imbalance between multiple spatial representations, *Experimental Brain Research*, 116, 493-500.

Lincoln N.B. & Bowen, A. (2006). The need for randomised treatment studies in neglect research. *Restorative Neurology & Neuroscience*, 24, 401-408.

Loetscher, T., & Lincoln, N.B. (2013). Cognitive rehabilitation for attention deficits following stroke. *Cochrane Database of systematic reviews*. Issue 5. Art. No.: CD002842. DOI: 10.1002/14651858.CD002842.pub2.

Luate, J. Halligan, J. Rode, G. Rossetti, Y., Boisson, D. (2006). Visuo-spatial neglect: A systematic review of current interventions and their effectiveness. *Neuroscience & Biobehavioral Reviews*, 30, 961-982.

- Luukkainen-Markkula, R., Tarkka, I.M., Pitkanen, K. Sivenisu, J., Hamalainen, H. (2011). Comparison of the behavioural inattention test and the catherine bergego scalen in assessment of hemispacial neglect *Neuropsychological rehabilitation*, 21(1), 103-116. DOI:10.1080/09602011.2010.531619
- Malhotra, P., Coulthard, E. & Husain, M. (2005). Hemispacial neglect, balance and eye-movement control. *Current Opinion in Neurology*, 19, 14-20.
- Marshall, S.C. et al. (1997). Attentional deficits in stroke patients: A visual dual task experiment, *Archives Physical Medicine & Rehabilitation*, 78,7-12.
- Mesulam, M.M. (1998). Spatial attention and neglect: parietal, frontal and cingulate contributions to the mental representation and attentional targeting of salient extrapersonal events. *Phil Trans Royal Soc London*, 354, 1325-1346.
- Mesulam, M.M. (1999). Spatial attention and neglect: parietal, frontal and cingulate contributions to the mental representation and attentional targeting of salient extrapersonal events. *Phil Trans Royal Soc London*, 354, 1325-1346.
- Milner, A.D. & McIntosh, R.D. (2005). The neurological basis of visual neglect. *Current Opin Neuro*, 18, 748-753.
- Mort, D.J. & Kennard, C. (2003). Visual search and its disorders. *Current Opinion in Neurology*, 16,51-57.
- Muller-Ochring, E.M., Kasten, E., Poppel, D.A., Schulte, T., Strasburger, H. & Sabel, B.A. (2003). Neglect and heminaopia superimposed. *Journal Clinical & Experimental Neuropsychology*, 8, 1154-1168.
- Newport, R. & Schenk, T. (2012). Prism and neglect: What have we learned? *Neuropsychologia*, 50, 1080-109.
- Niemeier, J.P. (1998). The lighthouse strategy: Use of a visual imagery technique to treat visual inattention in stroke patients. *Brain Injury*, 12 (3), 399-406.
- Niemeier, J.P., Cifu, D.X., & Kishore, R. (2001). The lighthouse strategy: Improving the functional status of patients with unilateral neglect after stroke and brain injury using a visual imagery intervention. *Topics in Stroke Rehabilitation*, 8, 10-18.
- O'Connell, R.G., Bellgrove, M.A., Duckree, P.M., Lau, A., Fitzgerald, M. Robertson, I.H. (2008). Self-alert training: Volitional modulation of autonomic arousal improves sustained attention. *Neuropsychologia*, 46, 1373-1390
- Osawa, A. & Maeshima, S. (2010). Family participation can improve unilateral spatial neglect in patients, *European Neurology*, 63, 170-175 DOI: 10.1159/000286517
- Pavawall, S.P. & Schmitter-Edgecombe, M. (2006). Long-term retention of skilled visual search following severe traumatic brain injury. *Journal International Neuropsychological Society*, 12, 802-811.
- Peru, A., & Chelazzi, L. (2008). Local (focused) and global (distributed) visual processing in hemispacial neglect. *Experimental Brain Research*, 87, 447-457.
- Pero, S., Incoccia, C., Caracciolo, B., Zoccolotti, P., & Formisano, R. (2006). Rehabilitation of attention in two patients with traumatic brain injury by means of 'attention processing training.' *Brain Injury*, 20, 1207-1219.
- Piccardi, L., Nico, D., Bureca, I., Matano, A., & Guariglia, C. (2006). Efficacy of visuo-spatial training in right-brain damaged patients with spatial hemineglect and attention disorders. *Cortex*, 42, 975-982.

- Pizzamiglio, L., Guariglia, C., & Zoccolotti, P. (2006). Development of a rehabilitative program for unilateral neglect. *Restorative, Neurology & Neuroscience*, *24*, 337-345.
- Punt, T.D., Kltadono, K., Hulleman, J., Humphreys, G.W., Riddoch, M.J. (2008). From both sides now: crossover effects influence navigation in patients with unilateral neglect. *J Neuro, Neurosurg, Psychiatry*, *79*, 464-466.
- Priftis, K., Passarini, L., Pilosio, C., Meneghello, F., Pitteri, M. (2013). Visual scanning training, limb activation treatment and prism adaptation for rehabilitating left neglect: who is the winner? *Frontiers in Human Neuroscience*, *7*(360). 1-11. doi: 10.3389/fnhum.2013.00360
- Qiang, W., Sonoda, S., Suzuki, M., Okamoto, S., Saitoh, E. (2005). Reliability and validity of a wheelchair collision test for screening behavioral assessment of unilateral neglect after stroke. *Am J Phys Med & Rehab*, *84*, 161-66
- Rafal, R.D., & Posner, M.I. (1987). Deficits in human visual spatial attention following thalamic lesions. *Proceedings National Academy of Sciences USA*, *84*, 7349-7353
- Rapesak, S.Z., Verfaelle, M., Fleet, W.S., Heilman, K.M. (1989). Selective attention in hemispatial neglect. *Archives of Neurology*, *46*, 178-182.
- Ricci, R., Salatino, A., Garbarini, F., Ronga, I., Genero, R., Bertis, A., Neppi-Modona, M. (2016). Effects of attentional and cognitive variable on unilateral neglect. *Neuropsychologia*, *92*, 158-166.
- Ringman, J.M., Saver, J.L., Woolson, R.F., Clark, W.R., & Adams, H.P. (2004). Frequency, risk factors, anatomy, and course of unilateral neglect in an acute stroke cohort. *Neurology*, *63*, 468-474.
- Robertson, L.H., (2001). Do we need the "lateral" in unilateral neglect? Spatially nonselective attention deficits in unilateral neglect and their implications for rehabilitation. *Neuroimage*, *14*, S85-S90.
- Robertson, I.H., Tegner, R., Tham, K., Lo, A. & Nimmo-Smith, I. (1995). Sustained attention training for unilateral neglect: Theoretical and rehabilitation implications. *J Clinical & Exper Neuropsychology*, *17*, 416-430.
- Rodes, G., Klos, T., Courtois-Jacquim, S., Rossetti, Y, Pisella, L.(2006).Neglect and prism adaptation: A new therapeutic tool for spatial cognition disorders. *Restorative Neurology & Neuroscience*, *24*, 347-356.
- Rode, G, Revol, P, Rossetti, Y, Boisson, D, Bartolomeo, P. (2007). Looking while imagining: The influence of visual input on representational neglect. *Neurology*, *68*, 432-437.
- Rode, G, C. Pagliari C., Huchon, L., Rossetti Y., Pisella, L. (2017). Semiology of neglect: An update, (2017). *Annals of Physical & Rehabilitation Medicine*, *60*, 177-185.
- Rossit, S., Benwell, C.S.Y., Szymanek, L, Learmonth, G., McKernan-Ward, L., Corrigan, E., ... Monika Harvey, M (2017): Efficacy of home-based visuomotor feedback training in stroke patients with chronic hemispatial neglect, *Neuropsychological Rehabilitation*, DOI: 10.1080/09602011.2016.1273119
- Roth, H.L., Lora, A.N. & Heilman, K. (2002). Effects of monocular viewing and eye dominance on spatial attention. *Brain*, *125*, 2023-2035.
- Russell, C., Li K. & Malhotra, P.A. (2013). Harnessing motivation to alleviate neglect. *Frontiers in Human Neuroscience*. *7*(230) e1-7.
- Sasaki, Y., Hadjikhani, N., Fischl, B., Liu, A.R., Marret, S., Dale, A. M., Tootell, R.B. (2001). Local and global attention are mapped retinopically in human cortex. *PNAS*, *98*(4), 2077-2082.

Schenkenberg, T., Bradford, D.C., Ajax, E.T. (1980). Line bisection and unilateral visual neglect in patients with neurologic impairment, *Neurology*, 30, 509-517.

Schindler, I., Kerkhoff, G., Karnath, H.O., Keller, I. & Goldenberg, G. (2002). Neck muscle vibration induces lasting recovery in spatial neglect. *Journal of Neurology, Neurosurgery, Psychiatry*, 73, 412-419.

Schmitter-Edgecombe, M. and Beglinger, L. (2001). Acquisition of skilled visual search performance following severe head injury. *International Neuropsychological Society*, 7, 615-630.

Seniów, J., Polanowska, K., Leśniak, M. & Członkowska, A. (2016) Adding transcutaneous electrical nerve stimulation to visual scanning training does not enhance treatment effect on hemispatial neglect: a randomized, controlled, double-blind study, *Topics in Stroke Rehabilitation*, 23(6), 377-383, DOI: 10.1179/1074935715Z.00000000058

Shapi'i, A., Zin, N.A. M., (2015). A game system for cognitive rehabilitation. *BioMed Research International Volume 2015*, Article ID 493562, 7 pages <http://dx.doi.org/10.1155/2015/493562>

Smania, N., Fonte, C., Picelli, A., Gandolfi, M., Varalta, V. (2013). Effect of eye patching in rehabilitation of hemispatial neglect. *Frontiers in Human Neuroscience*. 7, article 527, 1-10

Snow, J.C., & Mattingley, J.B. (2006). Stimulus- and goal-driven biases of selective attention following unilateral brain damage: Implications for rehabilitation of spatial neglect and extinction. *Restorative Neurology & Neuroscience*, 24, 233-245.

Sohlberg, M.M., McLaughlin, K.A., Pavese, A., Heidrich, A., & Posner, M. I. (2000). Evaluation of attention process training and brain injury education in persons with acquired brain injury. *J Clin & Experi Neuropsych*, 22, 656-676.

Sprenger, A. Kompf, D. & Heide, W. (2002). Visual search in patients with left visual hemineglect. *Progress in Brain Research*, 140, 395-415.

Striemer, C.L., Ferber, S., Danckert, J. (2013). Spatial working memory deficits represent a core challenge for rehabilitating neglect. *Frontiers in Human Neuroscience*, 7(334), 1-11. doi: 10.3389/fnhum.2013.00334

Tham, K., & Kielhofner, G. (2003). Impact of the social environment on occupational experience and performance among persons with unilateral neglect. *American Journal of Occupational Therapy*, 57, 403-412.

Tham, K., Borell, L., & Gustavsson A. (2000). The discovery of disability: A phenomenological study of unilateral neglect. *American Journal Occupational Therapy*, 54, 398-406.

Tham, K., Ginsburg, E., Fisher, A.G., & Tegner, R. (2001). Training to improve awareness of disabilities in clients with unilateral neglect. *American Journal of Occupational Therapy*, 55, 46-54.

Tham, K. & Tegner, R (1997). Video feedback in the rehabilitation of patients with unilateral neglect, *Archives Physical Medicine & Rehabilitation*, 78, 410-413.

Thimm, M., Fink, G.R., Kust, J., Karbe, H. & Sturm, W. (2005). Impact of alertness training on spatial neglect: A behavioural and fMRI study. *Neuropsychologia*, 44, 1230-1246.

Ting, D.A.J., Pollock, A., Dutton, G.N., Doulal, F.N. Ting, D.S.W...Dhillon, B. (2011). Visual neglect following stroke: Current concepts and future focus. *Survey of Ophthalmology*, 56(2), 114-134.

- Tyler, H.R. (1969). Defective Stimulus Exploration in Aphasic Patients. *Neurology*, 19,105-112.
- Uttl, B. & Pilkenton-Taylor, C. (2001). Letter cancellation performance across the adult life span. *The Clinical Neuropsychologist*, 15, 521-530.
- Vallar, G. (2007). Spatial neglect, balint-holmes and gerstmann's syndromes, and other spatial disorders. *CNS Spectrums*, 13, 527-536.
- Van Vleet, T.M. DeGutis, J.M. (2013). The nonspatial side of spatial neglect and related approaches to pp 327-343 in *Progress in Brain Research*, Volume 207, ISSN 0079-6123, <http://dx.doi.org/10.1016/B978-0-444-63327-9.00012-6>
- Vuilleumier, P., Valenza, N., Mayer, E., Perrig, S., Landis, T. (1999). To see better to the left when looking more to the right; effects of gaze direction and frames of spatial coordinates in unilateral neglect. *J Int Neuropsychol Soc*, 5(1), 75-82.
- Warren, M. (1990). Identification of visual scanning deficits in adults after cerebrovascular accident. *American Journal of Occupational Therapy*, 44, 391-399.
- Warren, M., Moore, J.M., Vogtle, L. (2008). Search performance in healthy adults on cancellation tests. *American Journal of Occupational Therapy*, 62, 588-594.
- Weinberg, J., Diller, L., Gordon, W.A., Gerstman, L.J., Leiberman, A., Lakin, P., Hodges, G., Ezrachi, O. (1979). Visual scanning training effect on reading-related tasks in acquired Right brain damage. *Archives Physical Medicine & Rehabilitation*, 60, 479-486.
- Weinberg, J., Diller, L., Gordon, W.A., Gerstman, L.J., Leiberman, A., Lakin, P., Hodges, G., Ezrachi, O. (1979). Training sensory awareness and spatial organization in people with right brain damage. *Archives Physical Medicine & Rehabilitation*, 60, 491-496.
- Weinberg, J., Piasetsky, E., Diller, L., Gordon, W. (1982). Treating perceptual organization deficits in non-neglecting RBD stroke patients, *Journal of Clinical Neuropsychology*, 1, 59-75
- Weintraub, S., & Mesulam, M. (1988). Visual hemispatial inattention:stimulus parameters and exploratory strategies. *J Neuro, Neurosurgery & Psychiatry*, 51, 1481-1488.
- Wiat, L, et al. (1997). Unilateral neglect syndrome rehabilitation by trunk rotation and scanning training, *Archives of Physical Medicine & Rehabilitation*, 78, 424-429.
- Wilson, B., Cockburn, J., Halligan, P. (1987). Development of a behavioral test of visuospatial neglect. *Archives Physical Medicine & Rehabilitation* 68, 98-102.
- Whyte, J. & DiPasquale, M.C. (1995). Assessment of vision and visual attention in minimally responsive brain injured patients. *Archives Physical Medicine & Rehabilitation*, 76, 804-810.
- Wu, C-Y, Wang, T-N, Chen, Y-T, Lin, K-C, Chen, Y-A, Li, H-t., Tsai, P-L. (2013)Effects of constraint-induced therapy combined with eye patching on functional outcomes and movement kinematics in poststroke neglect. *American Journal of Occupational Therapy*, 67, 236-245.
- Zeloni, G., Farne, A., Baccini, M. (2002). Viewing less to see better. *J Neuro, Neurosurg, Psychiatry*, 73,195-198.

Zihl, J. & Hebel, N. (1997). Patterns of oculomotor scanning in patients with unilateral posterior parietal or frontal lobe damage. *Neuropsychologia*, 35, 893-906.

Zubko, O., Wilkinson, D., Langston, d., Sakel, M. (2013). The effect of repeated sessions of galvanic vestibular stimulation on target cancellation in visuo-spatial neglect: Preliminary evidence. *Brain Injury* 27(5), 613-619. DOI: 10.3109/02699052.2013.767938

Neurology, Neuroanatomy

Bainbridge, D. (2008). *Beyond the zonules of zen: A fantastic journey through your brain*. London: Harvard University Press.

Barrett, L.F. (2017). *How emotions are made: The secret life of the brain*, Boston: Houghton, Mifflin, Harcourt, ISBN: 978132895436

Bartolomeo, P. (2006). A parietofrontal network for spatial awareness in the right hemisphere of the human brain. *Archives of Neurology*, 63, 1238-1241.

Bower, B. (2001). Joined at the senses: perception may feast on a sensory stew, not a five-sense buffet, *Science News* 160, 204-205.

Corbetta, M. (1998). Frontoparietal cortical networks for directing attention and the eye to visual locations: Identical, independent, or overlapping neural systems? *Proceedings National Academy Science* 95, 831-838.

Chokron, S., Colliot, P., & Bartolomeo, P. (2004). The role of vision in spatial representation, *Cortex* 40,281-290.

Committeri, G., Pitzalis, S., Galati, G., Patria, F., Pelle, G. Sbatini, U. et al. (2007). Neural bases of personal and extrapersonal neglect in humans, *Brain*, 130, 431-441.

Doricchi, F., de Schotten, M.T., Tomaiuolo, F., & Bartolomeo, P. (2008). White matter (dis)connections and gray matter (dys)functions in visual neglect: Gaining insights into the brain networks of spatial awareness. *Cortex*, 44, 983-995.

Dorris, M.C., & Glimcher, P.W. (2004). Activity in posterior parietal cortex is correlated with relative subjective desirability of action. *Neuron*, 44, 365-376.

Du, T., Ciuffreda, K.J. & Kapoor, N. (2005). Elevated dark adaptation thresholds in traumatic brain injury. *Brain Injury*, 19, 1125-1138.

Field, D.T., Wilkie, R.M., & Wann, J.P. (2007). Neural systems in the visual control of steering. *Journal of Neuroscience*, 27, 8002-8010.

Goldberg, M.E. (2000). The control of gaze. In Kandel ER, Schwartz JH, Jessell TM, editors: *Principles of neural science*, ed 4, New York, McGraw-Hill.

Grosbras, M-H., Laird, A.R., & Paus, T. (2005). Cortical regions involved in eye movements, shifts of attention and gaze perception. *Human Brain Mapping*, 25, 140-154.

Hawkins, J., Ahmad, S., & Cui, Y. (2017). A theory of how columns in the neocortex enable learning the structure of the world. *Frontiers in Neural Circuits*, 11(81), <https://doi.org/10.3389/fncir.2017.00081>

Hawkins, J. & Ahmad, S. (2016). Why neurons have thousands of synapses, a theory of sequence memory in neocortex, *Frontiers in Neural Circuits*, 10(23) <https://doi.org/10.3389/fncir.2016.00023>

- Husain, M. & Nachev, P. (2007). Space and the parietal cortex. *Trends in Cognitive Science*, 11(1), 30-36.
- Kandel, E., Wurtz, R. (2000). Constructing the visual image. In Kandel ER, Schwartz JH, Jessell TM, editors: *Principles of neural science*, ed 4, New York, McGraw-Hill.
- Kandel, E., Wurtz, R. (2000). Perception of motion, depth and form, In Kandel ER, Schwartz JH, Jessell TM, editors: *Principles of neural science*, ed 4, New York, McGraw-Hill.
- Karnath, H-O, & Rorden, C. (2012). The anatomy of neglect. *Neuropsychologia*, 50, 1010-1017.
- Kelley, T.A. Serences, J.T., Giesbrecht, B & Yantis, S. (2008). Cortical mechanisms for shifting and holding visuospatial attention. *Cerebral Cortex*, 18, 114-125.
- Medina, J. J.. (2008). *Brain rules*. Seattle WA: Pear Press.
- Milner, A.D. & Goodale, M.A. (2008). Two visual systems re-viewed. *Neuropsychologia*, 46, 774-785.
- Mishkin, M., Ungerleider, L.G., Macko, K.A. (1983). Object vision and spatial vision: two cortical pathways. *Trends in Neuroscience*, 6, 414-417.
- Nyfleler, T., Muri, N., Pflugshaupt, T., von Wartburg, R. & Hess, C.W. (2006). Cortical reorganization after brain damage: The oculomotor model. *European Journal of Neuroscience*, 23, 1397-1402.
- Palmer, T., & Tzeng, O.J.L. (1990). Cerebral asymmetry in visual attention. *Brain & Cognition*, 13,46-58.
- Parton, A., Parashkev, N., Hodgson, T.L., Mort, D., Thomas, D. Ordidge, R., Morgan, R.S. et al. (2007). Role of the human supplementary eye field in the control of saccadic eye movements. *Neuropsychology*, 45, 997-1008.
- Peers, P., Casimir, J.H., Rordan, C., Cusack, R., Bonfiglioli, C., Bundesen, C., Driver, J., et al. (2005). Attentional functions of parietal and frontal cortex. *Cerebral Cortex*, 15, 1469-1484.
- Pelak, V.S., Smyth, S.F., Boyer, P.J., & Filley, C.M. (2011). Computerized visual field defects in posterior cortical atrophy. *Neurology*, 77, 2119-2122.
- Ratey, J.J. (2001). *A user's guide to the brain*. New York: Vintage Books
- Ramachandran, V.S. & Blakeslee, S. (1998). *Phantoms in the brain: Probing the mysteries of the human mind*. New York: Wm Morrow & Co.
- Robinson, D.L., Petersen, S.E. (1992). The pulvinar and visual salience. *Trends in Neuroscience*, 15(4) 127-132.
- Schneider, G.E. (1969). Two Visual Systems. *Science*, 895-901.
- Serge, A.R.B., Barkhof, F., Sprenger, M., Valk, J., Scheltens, P. (1996). The functional basis of ocular dominance: functional MRI findings. *Neuroscience Letters*, 221, 1-4.
- Spolidoro, M. Sale, A., Beradi, A. & Maffei, L. (2009). Plasticity in the adult brain: lessons from the visual system. *Experimental Brain Research*, 192, 335-341.
- Tessier-Lavigne, M (2000). Visual processing by the retina. In E.R. Kandel, J.H. Schwartz & T.M. Jessell, (Eds.). *Principles of neural science* (4th ed.) (pp. 507-522). New York: McGraw-Hill.
- Wurtz, R.H. & Kandel, E.R. (2000). Central visual pathways. In E.R. Kandel, J.H. Schwartz & T.M. Jessell, (Eds.). *Principles of neural science* (4th ed.) (pp. 523-546). New York: McGraw-Hill.

Wong, A.M., Sharpe, J.A. (1999). Representation of the visual field in the human occipital cortex: a magnetic resonance imaging and perimetric correlation, *Archives of Ophthalmology* 117, 208-217.

Miscellaneous

Anderson, L. Cross, A., Wynthein, D., Schmidt, L, Grutz, K. (2011). Effects of dynavision training as preparatory intervention status postcerebrovascular accident: A case report. *Occupational Ther Health Care*, 25(4), 270-282.

Andrews, T.J. & Copolla, D.M. (1999). Idiosyncratic characteristics of saccadic eye movements when viewing different visual environments, *Vision Research*, 39, 2947-2953.

Armstrong, R.A. (2008). Visual signs and symptoms of parkinson's disease. *Clinical & Experi Opt*, 91, 129-138.

Barry, S.R. (2009). Fixing my gaze: A scientists journey into seeing in three dimensions. New York: Basic Books

Bower, B. (2001). Joined at the senses: perception may feast on a sensory stew, not a five-sense buffet. *Science News*. 160, 204-205.

Brady, F: (1988). A Singular View, Frank B Brady, author /publisher P.O. Box 4653, Annapolis, MD, 21403.

Brabyn, J., Schneck, M., Haegerstrom-Portnoy, G., & Lott, L. (2001). The Smith-Kettlewell Institute (SKI) longitudinal study of vision function and its impact among the elderly: an overview, *Optometry & Vision Science*, 78(5), 264-269.

Brooks, J., Seeanner, J., Hennessy, S., Manganelli, J., Crisler, M., Rosopa, P. ...Tanner, S. (2017). Brief Report- Interactive tools for measuring visual scanning performance and reaction time. *American Journal of Occupational Therapy*, 71, 7102350010p1-6.

Carman-Merrifield, C. (2005). Vision rehabilitation strategies following traumatic brain injury and stroke. *International Congress Series*, 1282, 55-59.

Cate, Y. & Richards, L. (2000). Relationship between performance on tests of basic visual functions and visual perceptual processing in persons after brain injury, *American Journal of Occupational Therapy*, 54(3) 326-334.

Cantu, R. & Hyman, M. (2012). *Concussions and our kids*. Boston: Harper Books

Chen, J.W. (2002). Optic neuritis in multiple sclerosis. *Ocular Immunology & Inflammation*, 10, 161-186.

Clarke, G. (2005). Incidence of neurological vision impairment in patients who suffer from an acquired brain injury. *International Congress Series*, 1282, 365-369.

Copolillo, A. & Ivanoff, S.D. (2011). Assistive technology and home modifications for people with neurovisual deficits. *Neurorehabilitation*, 28, 211-220.

Costello, F. (2016). Vision disturbances in multiple sclerosis, *Seminars in Neurology*, 36, 185-195. DOI <http://dx.doi.org/10.1055/s0036-1579692>.

Crutch, S, Schott, J.M., Rabinovici, G.D., Boeve, B.F. Cappa, S.F. Dickerson, B.C....Fox, N.C. (2013). Shining a light on posterior cortical atrophy. *Alzheimer's & Dementia*, 1-3.

Dehaene, S. (2009). *Reading in the brain: The new science of how we read*. New York: Penguin Press.

de Schotten, M.T., Urbanski, M., Duffau, H., Volle, E., Levy, R., Dubois, B., Bartolomeo, P. (2005). Direct evidence for a parietal frontal pathway subserving spatial awareness in humans. *Science*, 309, 2226-2228.

Digre, K.B. & Brennan, K.C. (2012). Shedding light on photophobia. *Journal of Neuroophthalmology*, 32 (1) 68-81. doi:10.1097/WNO.0b013e3182474548.

Doidge, N. (2015). *The brain's way of healing: Remarkable discoveries and recoveries from the frontiers of neuroplasticity*. New York: Viking Press.

Doidge, N. (2007). *The brain that changes itself: Stories of personal triumph from the frontiers of brain science*. New York: Penguin Press.

Dowling, J. E. (2018) *Understanding the Brain: From Cells to Behavior to Cognition* New York: W.W. Norton

Duffy, M. (2002). *Making life more livable: Simple adaptations for living at home after vision loss*. New York, American Foundation for the Blind Press.

Du, T., Ciuffreda, K.J. & Kapoor, N. (2005). Elevated dark adaptation thresholds in traumatic brain injury. *Brain Injury*, 19(13), 1125-1138.

Feaster, H.T., & Bruce, J.M.(2011). Visual acuity is associated with performance on visual and non-visual neuropsychological tests in multiple sclerosis. *The Clinical Neuropsychologist* 25(4), 640-651 DOI: 10.1080/13854046.2011.565075

Gaberl, T.A.-Z. K. (2010). Rehabilitation of cortical blindness secondary to stroke. *Neurorehabil*, 27, 321-325.

Gottshall, K., Drake, A., Gray, N., McDonald, E., Hoffer, M.E. (2003). Objective vestibular tests as outcome measures in head injury patients. *Laryngoscope*, 113, 1746-1750.

Green, M., Barstow, B. & Vogtle, L. (2018). Lighting as a compensatory strategy for acquired visual deficits after stroke: Two case reports, *American Journal of Occupational Therapy*, 72, 7202210010p1-7202210010p6. doi:10.5014/ajot.2018.023382

Greenwald, B.D., Kapoor, N. Singh, A.D. (2012). Vision impairment in the first year after traumatic brain injury, *Brain Injury* 26(11), 1338-1359. DOI: 10.3109/02699052.2012.706356

Han, M.H.E., Craig, S.B., Rutner, D., Kapoor, N., Ciuffreda, K.J., Suchoff, I.B. (2008). Medications prescribed to brain injury patients: A retrospective analysis. *Optometry*, 79, 252-258.

Jacobs, D.A. & Galetta, S.L. (2004). Multiple sclerosis and the visual system. *Ophthalmology Clinics of North America*, 17, 265-273. DOI: [10.1016/j.ohc.2004.05.011](https://doi.org/10.1016/j.ohc.2004.05.011)

Jones, S.A. & Shinton, R. (2006). Improving outcome in stroke patients with visual problems. *Age & Ageing*, 35, 560-565.

Katz, B.J., Digre, K.B. (2016). Diagnosis, pathophysiology, and treatment of photophobia, *Survey of Ophthalmology*, 61(4), 466-477, doi: 10.1016/j.survophthal.2016.02.001.

Keeney, A.H., Garvey, J, (1981), The dilemma of the monocular driver. *American J Ophthal*, 91, p 801-803.

Kim, E.J., Lee, E.L., Kwange, L.L., Kim, H.G., Yoon, Y-H, Young, S., Yu, J.A. (2011). Change of visual perception in geriatric strokes after visuomotor coordination training. *J Korean Academic Rehabilitation Med*, 35, 174-179.

- Klavora, P., Heslegrave, R.J., Young, M. (2000). Driving skills in elderly persons with stroke: comparison of two new assessment options. *Archives of Physical Medicine & Rehabilitation* 81,701-705.
- Klavora, P. & Warren, M. (1998). Rehabilitation of visuomotor skills in poststroke patients using the dynavision apparatus. *Perceptual & Motor Skills*, 86, 23-30.
- Klavora, P., Gaskovski, P., Heslegrave, R., Quinn, R. & Young, M. (1995). Rehabilitation of visual skills using the dynavision: a single case experimental design. *Canadian Journal of Occupational Therapy*, 62, 37-43.
- Klavora, P., Gaskovski, P., Forsyth, R., Heslegrave, R., Young, M., Quinn, R., Martin, K. (1995). The effects of dynavision rehabilitation on behind-the-wheel driving ability and selected psychomotor abilities of persons post-stroke. *American Journal of Occupational Therapy*, 49,534-542.
- Klavora, P., Gaskovski, P. & Forsyth, R. (1995). Test-retest reliability of three dynavision tasks, *Perceptual & Motor Skills*, 80, 607-610.
- Klavora, P., Gaskovski, P. & Forsyth, R. (1994). Test-retest reliability of the dynavision apparatus. *Perceptual & Motor Skills*, 79, 448-450.
- Land, M. F. (2006). Eye movements and the control of actions in everyday life. *Progress in Retinal Eye Research*, 25(3), 296-324.
- Lafosse, C., Kerckhofs, E., Troch, M., Vereeck, L Van Hoydonck, G. Moeremans, M. et al. (2005). Contraversive pushing and inattention of the contralesional hemispace. *J Clinical & Exper Neuropsychology*, 27, 460-484
- Levin, L.L. (2004). Neuro-ophthalmologic diagnosis and therapy of central nervous system trauma. *Ophthalmology Clinics of North America*, 17, 455-464.
- Lotery, A.J., Wiggam, M.I., Jackson, J., Silvestri, G., Refson, K. Fullerton, K.J., et al. (2000). Correctable visual impairment in stroke rehabilitation patients. *Age & Ageing*, 29, 221-222.
- Masland, R. (1996). Unscrambling color vision, *Science*, 271, 616-617.
- McAfoose, J., & Baune, B.T. (2009). Exploring visual-spatial working memory: A critical review of concepts and models. *Neuropsychological Review*, 19, 130-142.
- Medina, J. J.. (2008). *Brain rules*. Seattle WA: Pear Press.
- Milder, E. & Davis, K. (2008). Ocular trauma and glaucoma. *International Ophthalmology Clinics*, 48(4), 47-64.
- Muller, H.J., & Krummenacher, J. (2006). Visual search and selective attention. *Visual Cognition*, 14, 389-410.
- Najemnik, J., & Geisler, W. S. (2008). Eye movement statistics in humans are consistent with an optimal search strategy. *F s*, 8(3), 4 1-14.
- Ng, Y.S., Stein, J., Salles, S.S. & Black-Schaffer, R.M. (2005). Clinical characteristics and rehabilitation outcomes of patients with posterior cerebral artery stroke. *Archives of Physical Medicine & Rehabilitation*, 86, 2138-2143.
- Owsley, C., McGwin, G. (1999). Vision impairment and driving. *Survey of Ophthalmology*, 43 (6) 535-550.
- Park, H Y, Kinsuk, M., Martinez, K.M. (2015). The effect of occupation-based cognitive rehabilitation for

traumatic brain injury: A meta-analysis of randomized controlled trials. *Occupational Therapy International*, DOI: 10.1002/oti.1389

Park, W. L., Mayer, R.S., Moghimi, C., Park, J.M., & Deremeik, J.T. (2005). Rehabilitation of hospital inpatients with visual impairments and disabilities from systemic illness. *Archives Physical Medicine & Rehab*, 86, 79-81.

Pelak, V.S., Smyth, S.F., Boyer, P.J., Filley, C.M. (2011). Computerized visual field defects in posterior cortical atrophy, *Neurology*, 77, 2119-2122.

Ramachandran, V.S., Blakeslee, S. (1998). *Phantoms in the brain: Probing the mysteries of the human mind*. New York:Wm Morrow & Co.

Ratey, J.J. (2001). *A user's guide to the brain*. New York: Vintage Books.

Rayner, K. (1998). Eye movements in reading and information processing: 20 years of research. *Psychological Bulletin*, 124(3), 371-422.

Roche, S. Vogtle, L. K., Warren, M., O'Connor, K.A. (2014). Brief report-Assessment of visual function in older adults on an orthopaedic unit. *American Journal of Occupational Therapy*, 68(4),465-471.
<http://dx.doi.org/10.5014/ajot.2014.010231>

Rodriguez, A.R., Barton, J.J.S. (2015). The 20/20 patient who can't read, *Canadian J Ophthalmol*, 50(4), 257-264.

Rombouts, A.R.B., Barkhof, F., Sprenger, M., Valk, J., Scheltens, P. (1996). The functional basis of ocular dominance: functional MRI (fMRI) findings. *Neuroscience Letters*, 221, 1-4.

Rowe, F. (2009). Visual perceptual consequence of stroke. *Strabismus*, 17, 24-28.

Rowe, F. Brand, D., Jackson, C.A., Price, A. Walker, L, Harrison, S....Freeman, C. (2009). Visual impairment following stroke: Do stroke patients require vision assessment? *Age and Ageing*, 38, 188-193.

Rowe, F., Wright, D., Brand, D., Jackson, C., Price, A. Walker, L....Freeman, C. (2011). Reading difficulty after stroke: ocular and non ocular causes. *International Journal of Stroke*, 6, 404-411. DOI: 10.1111/j.1747-4949.2011.00583.x

Rowe F., & VIS Group UK (2013). Symptoms of stroke related visual impairment, *Strabismus*, 21(2), 150-154 DOI: 10.3109/09273972.2013.786742

Ridder, W.H., Zhang, Y., Huan, J-F (2013). Evaluation of reading speed and contrast sensitivity in dry eye disease. *Optometry & Vision Science*, 90(1), 37-44. 1040-5488/13/9001-0037/0

Rizzo, M., Anderson, S.W., Dawson, J, Nawrot, M., (2000). Vision and cognition in Alzheimer's disease. *Neuropsychologia* 38, 1157-1169

Rutner, D., Kapoor, N., Ciufredda, K.J., Craig, S., Han, M.E., Suchoff, I.B.(2006). Occurrence of ocular disease in traumatic brain injury in a selected sample: A retrospective analysis. *Brain Injury*, 20, 1079-1086.

Schuchard, R.A. (1995). Adaptation to macular scotomas in persons with low vision, *American Journal of Occupational Therapy*, 49,9, 870-876.

Senra, H., Oliveira, R.A. & Leal, I. (2011). From self-awareness to self-identification with visual impairment: a qualitative study with working age adults at a rehabilitation setting. *Clinical Rehabilitation* 25(12), 1140-1151.

Vallat-Asouvi, C., Weber, T., Legrand, L. & Azouvi, P. (2007). Working memory after severe traumatic brain injury. *Journal of International Neuropsychological Society*, 13, 770-780.

Vishwanath, D. & Hibbard, P.B. (2013). Seeing in 3-D with just one eye: Stereopsis without binocular vision. *Psychological Science*, 24(9), 1673-1685.

Vesia, M., Esposito, J., Prime, S.L., Klavara, P. (2008). Correlations of selected psychomotor and visuomotor tests with initial dynavision performance. *Perceptual & Motor Skills*, 107, 14-20.

Wahl, H.W., Oswald, F., Zimprich, D. (1999). Everyday competence in visually impaired older adults: A case for person environment perspectives. *The Gerontologist*, 39 (2) 140-149.

Warren, M.L. (1993). A hierarchical model for evaluation and treatment of visual perceptual dysfunction in adult acquired brain injury” Parts 1 and 2, *American Journal of Occupational Therapy*, 47, 42-66.

Warren, M., & Lampert, J. (1994). Considerations in addressing the daily living needs in older persons with low vision. In A. Colenbrander & D.C. Fletcher (Eds), *Low Vision and Vision Rehabilitation*, Ophthalmology Clinics of North America, Vol. 7, (pp. 187-195). Philadelphia: WB Saunders Co.

Warren, M. (2006). Evaluation and treatment of visual deficits following brain injury. In H.M. Pendleton, & W. Schultz-Krohn (Eds.), *Pedretti's occupational therapy practice skills for physical dysfunction* (6th ed., pp.532-573). St. Louis MO: Mosby Elsevier.

Waugh, D. (1993). Why are we blind to the colour blind? *Canadian Medical Assoc Journal*. 148(3), 442-443.

Williams, T.A.(1995). Case report-low vision rehabilitation for a patient with a traumatic brain injury, *American Journal of Occupational Therapy* 49 (9), 923-926.

Wong, T. & Mitchell, P. (2007). The eye in hypertension. *Lancet*, 369, 425-435.

Parkinson's Disease

Alves, G., Forsaa, E. B., Pederson, K. F., Gjerstad, M. D., & Larsen, J. P. (2008). Epidemiology of Parkinson's disease. *Journal of Neurology*, 255(5), 18-32.

Armstrong, R.A. (2015). Oculo-visual dysfunction in Parkinson's disease. *J Parkinson's Disease*, 5, 715-726.

Biousse, V., Skibell, B. C., Watts, R. L., Loupe, D. N., Drews-Botsch, C., & Newman, N. J. (2004). Ophthalmologic features of Parkinson's disease. *Neurology*, 62, 177-180. DOI: 10.1212/01.WNL.0000103444.45882.D8

Blackburn, M.K., Lamb, R.D., Digre, K.B., Smith A. G., Warner, J.E.A, McClane, R.W....Katz, B.J. (2009). FL-41 tint improves blink frequency, light sensitivity, and functional limitations in patients with benign essential blepharospasm. *Ophthalmology*, 116(5), 997-1001 doi:10.1016/j.ophtha.2008.12.031.

Clarke, C. E., Furnston, A., Morgan, E., Patel, S., Sackley, C., & Walker, M. F. et al. (2008). Pilot randomised controlled trial of occupational therapy to optimise independence in Parkinson's disease: The PD OT trial. *Journal of Neurology, Neurosurgery and Psychiatry*, 1-7. doi:10.1136/jnnp.2007.138586

Ekker, M.S., Janssen, S., Seppi, K., Poewe, W., de Vries, N.M., Theelen, T. ...Bleom, B.R. (2017). Ocular and visual disorders in Parkinson's disease: Common but frequently overlooked, *Parkinsonism and Related Disorders*, 40, 1-10, doi: <https://doi.org/10.1016/j.parkreldis.2017.02.014>

Jankovic, J. (2008). Parkinson's disease: Clinical features and diagnosis. *Journal of Neurology, Neurosurgery and Psychiatry*, 79, 368-376.

Rizzo, M., Uc, E. Y., Dawson, J., Anderson, S., & Rodnitzky, R. (2010). Driving difficulties in Parkinson's disease. *Movement Disorders*, 25, S136-S140.

Savitt, J. & Mathews, M. (2018) Treatment of visual disorders in Parkinson disease, *Current Treatment Options in Neurology*, 20. DOI:10.1007/s11940-018-0519-0.

Uc, E. Y., Rizzo, M., Anderson, S. W., Dastrup, E., Sparks, J. D., & Dawson, J. D. (2009). Driving under low-contrast visibility conditions in Parkinson disease. *Neurology*, 73, 1103-1110.

Uc, E.Y., Rizzo, M., Anderson, S.W., Sparks, J., Rodnitzky, R.L. & Dawson, J.D. (2006). Impaired visual search in drivers with parkinson's disease. *Annals of Neurology*, 60, 407-413.

Uc, E., Rizzo, M., Anderson, S., Qian, M., Rodnitzky, R., & Dawson, J. (2005). Visual dysfunction in Parkinson's disease without dementia. *Neurology*, 65, 1907-1913.

Willis, A.W., Evanoff, B.A., Lian, M., Criswell, S.R., & Racette, B.A. (2010). Geographic and ethnic variation in Parkinson disease: A population –based study of US Medicare beneficiaries. *Neuroepidemiology* 34, 143-151
DOI: 10.1159/000275491

War-related TBI

Brahm, K.D., Wilgenburg, H.M., Kirby, J., Ingalla, S., Change, C-Y, Goodrich, G.L. (2009). Visual impairment and dysfunction in combat-injured service members with traumatic brain injury. *Opt & Vision Sci*, 86(7), 817-825.

Cockerham, G.C., Goodrich, G.L., Weichel, E.D., Orcutt, J.C., Rizzo, J.F., Bower, K.S., Schuchard, R.A. (2009). Eye and visual function in traumatic brain injury. *Journal rehabilitation research & development*, 46(6), 811-818.

Goodrich, G.L Kirby, J., Cockerham, G.C., Ingalla, S.P.Lew, H.L. (2007) Visual function of patients of a polytrauma rehabilitation center: A descriptive study *Journal Rehab Research & Development* 44(7) 929-936

Goodrich, G.L., Martensen, G.L., Flyg, H.M., Kirby, J., Garvert, D.W., Tyler, C.W. (2014). Visual function, traumatic brain injury and posttraumatic stress disorder, *Journal of Rehabilitation and Research*, 51(4), 547-558. <http://dx.doi.org/10.1682/JRRD.2013.02.0049>

Hoge, C.W., McGurck, D, Thomas, J.L Cox, A.L., Engel, C.C., Castro, Ca.A. (2008). Mild traumatic brain injury in U.S. soldiers returning from Iraq. *New England Journal Medicine*, 358(5), 453-463.

Lew, H.L., Garvert, D.W., Pogoda, T.K., Hsu, P-T, Devine, J.M., White, D.K., Myers, P.J., Goodrich, G.L. (2009). Auditory and visual impairments in patients with blast-related traumatic brain injury: Effect of dual sensory impairment on Functional Independence Measure. *Journal Rehab Research & Development*, 46(6),819-826.

Lew, H.L., Pogoda, T.K., Stolzmann, K.L., Meterko, M., Cifu, D.X., Amara, J., Hendricks, A.M. (2011). Prevalence of dual sensory impairment and its association with traumatic brain injury and blast exposures in OEF/OIF veterans. *Journal Head Trauma & Rehabilitation*, 26(6), 489-496.

Magone, M.T., Kwon, E., Shin, S. Y. (2014). Chronic visual dysfunction after blast-induced mild traumatic brain injury. *Journal Rehabilitation Research & Development* 51(1), 71-80.

Scherer, M.R. & Schubert, M.C. (2009). Traumatic brain injury and vestibular pathology as a comorbidity after blast exposure. *Physical Therapy, 89*, 980-992. Doi:10.2522/ptj.20080353.

Schneiderman, A.I., Braver, E.R., & Kang, H.K. (2008). Understanding sequelae of injury mechanisms and mild traumatic brain injury incurred during the conflicts in Iraq and Afghanistan: Persistent post concussive symptoms and posttraumatic stress disorder.

Weichel, E. D., Colyer, M.H., Bautista, C., Bower, K.S., French, L.M. (2009). Traumatic brain injury associated with combat ocular trauma. *Journal of Head Trauma Rehabilitation, 24* (1), 41-50.

Concussion

Alvarez, T.L., Kim, E.H., Vicci, V.R., Dhar, S.K., Biswal, B.B., ...Barrett, A.M. (2012). Concurrent vision dysfunctions in convergence insufficiency with traumatic brain injury. *Optometry & Vision Science, 89* (12). doi:10.1097/OPX.0b013e3182772dce.

Arciniegas, D.B., Anderson, C.A., Topkoff, J., McAllister, T.W. (2005). Mild traumatic brain injury: A neuropsychiatric approach to diagnosis, evaluation and treatment. *1* (4), 311-327. PMID:PM2424119

Barnett, B.P., Singman, E.L. (2015). Vision concerns after mild traumatic brain injury, *Current Treatment Options in Neurology, 17*(5), DOI 10.1007/s11940-014-0329-y

Broshek, D.,K., Anthony P. De Marco, A. P., & Freeman, J.R. (2015) A review of post-concussion syndrome and psychological factors associated with concussion, *Brain Injury, 29*(2), 228-237, DOI: 10.3109/02699052.2014.974674

Brown, N.J. et al. (2014). Effect of cognitive activity level on duration of concussion symptoms. *Pediatrics, 133* (2), e299-e304. doi:10.1542/peds.2013-2125

Cantor, J.B., Ashman, T., Gordon, W., Ginsberg, A., Engmann, C., Egon, M....Flanagan, S. (2008). Fatigue after traumatic brain injury and its impact on participation and quality of life. *J Head Trauma Rehabil, 23*(91), 41-51.

Cantu, R. & Hyman, M. (2012). Concussions and our kids. Boston: Harper Books.

Carson, J.D. et al. (2014). Premature return to play and return to learn after a sport-related concussion: Physician's chart review. *Canadian Family Physician, 60*, e310-315.

Ellis, M., Cordingley, D., Vis, S., Reimer, K., Leiter, J., Russell, K. 2015). Vestibulo-ocular dysfunction in pediatric sports-related concussion. *Journal of Neurosurgery & Pediatrics*, published online June 2, 2015, DOI: 10.3171/2015.1.PEDS14524.

Gould, K.E., Ponsford, J.L., Johnston, L. Schonberger, M. (2011). The nature, frequency and course of psychiatric disorders in the first year after traumatic brain injury: A prospective study. *Psychological Medicine, 41*, 2099-2109.

Hoffman, J.M., Lucas, S., Dikmen, S., Braden, C.A., Brown, A.W., Brunner, R. ...Bell, K.R. (2011). Natural history of headache after traumatic brain injury. *Journal Neurotrauma, 28*, 1719-1725. doi: 10.1089/neu.2011.1914.

Katz, D.I., Cohen, S.I. & Alexander, M.P. (2015). Mild traumatic brain injury (chapter 4), *Handbook of Clinical Neurology, 127* (3rd series), 131-156.

Ling, H., Hardy, J., Zetterberg, H. (2015). Neurological consequences of traumatic brain injuries in sports. *Molecular & Cellular Neuroscience*, <http://dx.doi.org/10.1016/j.mcn.2015.03.012>

Losoi, H., Silverberg, N.D., Waljas, M., Turunen, S., Rosti-Otajarvi, E. Helminen, M. (2015). Resilience is associated with outcome from mild traumatic brain injury. *Journal of Neurotrauma*, *32*, 942-949. doi: 10.1089/neu.2014.3799.

Lucas, S. (2011). Headache management in concussion and mild traumatic brain injury. *PM R*, *3*, S406-412. DOI: 10.1016/j.pmrj.2011.07.016

Macedo et al. (2014). Building resilience for future adversity: a systematic review of interventions in non-clinical samples of adults. *BMC Psychiatry*, *24*, 1-8 open access: <http://www.biomedcentral.com/1471-244X/14/227>

Marar, M. McIlvain, Fields, S.K, Comstock, R.D. (2012). Epidemiology of concussions among United States high school athletes in 20 sports. *American J Sports Med* *20* (10) e1-9, DOI:10.1177/0363546511435626

Oldenburg, C., Lundin, A., Edman, G., Nygren-de Boussard, C, Bartfai, A. (2016) Cognitive reserve and persistent post-concussion symptoms—A prospective mild traumatic brain injury (mTBI) cohort study, *Brain Injury*, *30*(2), 146-155, DOI: 10.3109/02699052.2015.1089598

Ouelett, M-C, & Morin, C.M. (2007). Efficacy of cognitive-behavioral therapy for insomnia associated with traumatic brain injury: A single-case experimental design. *Archives of Physical Medicine & Rehabilitation*, *88*, 1581-1592. DOI: 10.1016/j.apmr.2007.09.006

Patil, V. K., St. Andre, J.R., Crisan, E., Smith, B.M., Evans, C.T., Steiner, M.L....Pape, T.L. (2011). Prevalence and treatment in veterans with mild traumatic brain injuries. *Headache*, *51*, 1112-1121. doi: 10.1111/j.1526-4610.2011.01946.x

Ponsford, J.L., Ziino, C., Parcell, D.L., Shekleton, J.A. Roper, M, Redman, J.R...Rajaratnam, S.M.W. (2012). Fatigue and sleep disturbance following traumatic brain injury-Their nature, causes and potential treatment. *Journal of Head Trauma Rehabilitation*, *27* (3), 224-233. doi: 10.1097/HTR.0b013e31824ee1a8.

Sullivan, K.A., Edmed, S.L., Allan, A.C., Smith, S.S., Karlsson, L.J.E. (2015). The role of psychological resilience and mTBI as predictors of post concussional syndrome symptomatology. *Rehabilitation Psychology*, advance online, 1-8 <http://dx.doi.org/10.1037/rep0000037>

Valovich McLeod, T.C. & Hale, T.D. (2015) Vestibular and balance issues following sport-related concussion, *Brain Injury*, *29*(2), 175-184, DOI: 10.3109/02699052.2014.965206

Zgaljardic, D.J., Durham, W.J., Mossberg, K.A. Foreman, J., Joshipural, K., Masel, B.E....Sheffield-Moore, M. (2014). Neuropsychological and physiological correlates of fatigue following traumatic brain injury. *Brain Injury*, *28*(4), 389-397. doi: 10.3109/02699052.2014.8842423