

REFERENCES

- Alfonso, J., Fernández-Vega, L., Baamonde, M. and Montés-Micó, R. (2007). Correlation of Pupil Size with Visual Acuity and Contrast Sensitivity After Implantation of an Apodized Diffractive Intraocular Lens. *J Cataract Refract Surg*, 33(3), pp.430-438.
- Anstice, N. and Thompson, B. (2013). The Measurement of Visual Acuity in Children: An Evidence-Based Update. *Clin Exp Optom*, 97(1), pp.3-11.
- Becker, R. (2002). Examination of Young Children with Lea symbols. *Br J Ophthalmol*, 86(5), pp.513-516.
- Benjamin, W. and Borish, I. (2006). *Borish's Clinical Refraction*. 2nd ed. St. Louis Mo.: Butterworth Heinemann/Elsevier, pp.13-769.
- Boyd, K. (2017). *Baby's Vision Development: What to Expect the First Year*. [online] Available at: <https://www.aao.org/eye-health/tips-prevention/baby-vision-development-first-year> [Accessed 30 Oct. 2018].
- Chen, S., Chandna, A., Norcia, A., Pettet, M. and Stone, D. (2006). The Repeatability of Best Corrected Acuity in Normal and Amblyopic Children 4 to 12 Years of Age. *Invest Ophthalmol Vis Sci*, 47(2), pp.614-619.
- Cornish, E., Hendrickson, A. and Provis, J. (2004). Distribution of Short-Wavelength-Sensitive Cones in Human Fetal and Postnatal Retina: Early Development of Spatial Order and Density Profiles. *Vision Res*, 44(17), pp.2019-2026.
- Deng, L., Gwiazda, J. And Thorn, F. (2010). Children's refractions and visual activities in the school year and summer. *Optom Vis Sci*, 87(6), pp.406-413.
- Dobson, V., Harvey, E. and Miller, J. (2007). Spherical Equivalent Refractive Error in Preschool Children From a Population With a High Prevalence of Astigmatism. *Optom Vis Sci*, 84(2), pp.124-130.
- Elgohary, A., Abuelela, M. and Eldin, A. (2017). Age norms for grating acuity and contrast sensitivity measured by Lea tests in the first three years of life. *Int J Ophthalmol*, 10(7), pp.1150-1153.
- Guo, X., Fu, M., Lü, J., Chen, Q., Zeng, Y., Ding, X., Morgan, I. and He, M. (2015). Normative Distribution of Visual Acuity in 3- to 6-Year-Old Chinese Preschoolers: The Shenzhen Kindergarten Eye Study. *Invest Ophthalmol Vis Sci*, 56(3), p.1985-1992.

- Ibironke, J., Friedman, D., Repka, M., Katz, J., Giordano, L., Hawse, P. and Tielsch, J. (2011). Child Development and Refractive Errors in Preschool Children. *Optom Vis Sci*, 88(2), pp.181-187.
- Karatepe, AS., Köse, S. and Eğrilmez, S. (2017). Factors Affecting Contrast Sensitivity in Healthy Individuals: A Pilot Study. *Turk J Ophthalmol*, 47(2), pp.80-84.
- Kolker, R. (2015). *Subjective Refraction and Prescribing Glasses: Guide to Practical Techniques and Principles*. [ebook] Baltimore, Maryland, U.S: JCAHPO, pp.8-9. Available at: <https://www.aao.org/Assets/563fc40b-1466-477e-bc12-4e62f8b2d324/635476894936870000/subjective-refraction-prescribing-glasses-pdf> [Accessed 1 Dec. 2018].
- Lambert, S. (2006). Longitudinal changes in the spherical equivalent refractive error of children with accommodative esotropia. *Br J Ophthalmol*, 90(3), pp.357-361.
- Leat, S. and Wegmann, D. (2004). Clinical Testing of Contrast Sensitivity in Children: Age-related Norms and Validity. *Optom Vis Sci*, 81(4), pp.245-254.
- Leat, S., Yadav, N. and Irving, E. (2009). Development of Visual Acuity and Contrast Sensitivity in Children. *J Optom*, 2(1), pp.19-26.
- Lewis, T. and Maurer, D. (2005). Multiple sensitive periods in human visual development: Evidence from visually deprived children. *Dev Psychobiol*, 46(3), pp.163-183.
- Liou, S. and Chiu, C. (2001). Myopia and contrast sensitivity function. *Curr Eye Res*, 22(2), pp.81-84.
- Liutkevičienė, R., Čebatorienė, D., Liutkevičienė, G., Jašinskas, V. and Žaliūnienė, D. (2013). Associations Between Contrast Sensitivity and Aging. *Medicina*, 49(6), p.273-277.
- Mäntyjärvi, M. and Laitinen, T. (2001). Normal values for the Pelli-Robson contrast sensitivity test. *J Cataract Refract Surg*, 27(2), pp.261-266.
- Mayer D., Hansen R., Moore B., Kim S. and Fulton A. (2001). Cycloplegic refractions in healthy children aged 1 through 48 months. *Arch Ophthalmol*, 119(11), p.1625-1628.
- Milling, A., O'connor, A. and Newsham, D. (2014). The importance of contrast sensitivity testing in children. *Br Ir Orthopt J*, 11(0), pp.9-14.

- Norgett, Y. and Siderov, J. (2011). Crowding in Children s Visual Acuity Tests— Effect of Test Design and Age. *Optom Vis Sci*, 88(8), pp.920-927.
- Ou, W., Brown, D., Payne, J. and Wykoff, C. (2017). Relationship Between Visual Acuity and Retinal Thickness During Anti-Vascular Endothelial Growth Factor Therapy for Retinal Diseases. *Am J Ophthalmol*, 180, pp.8-17.
- Owsley, C. (2003). Contrast Sensitivity. *Ophthalmol Clin North Am*, 16(2), pp.1-7.
- Pan, Y., Tarczy-Hornoch, K., Cotter, S., Wen, G., Borchert, M., Azen, S. and Varma, R. (2009). Visual Acuity Norms in Pre-School Children: The Multi-Ethnic Pediatric Eye Disease Study. *Optom Vis Sci*, 86(6), pp.607-612.
- Pardhan, S. (2004). Contrast Sensitivity Loss With Aging: Sampling Efficiency and Equivalent Noise at Different Spatial Frequencies. *J Opt Soc Am A Opt Image Sci Vis*, 21(2), p.169-175.
- Pelli, D. and Bex, P. (2013). Measuring Contrast Sensitivity. *Vision Res*, 90, pp.10-14.
- Radhakrishnan, H., Pardhan, S., Calver, R. and O'Leary, D. (2004). Effect of contrast sensitivity in myopes and non-myopes. *Vision Res*, 44(16), pp.1869-1878.
- Remington, L. (2012). *Clinical Anatomy and Physiology of the Visual System*. 3rd ed. St. Louis, Missouri: Butterworth-Heinemann, pp.233-250.
- Satou, T., Takahashi, Y., Ito, M., Mochizuki, H. and Niida, T. (2018). Evaluation of visual function in preschool-age children using a vision screening protocol. *Clin Op*, 12, pp.339-344.
- Scheiman, M., Zhang, Q., Gwiazda, J., Hyman, L., Harb, E., Weissberg, E., Weise, Katherine K. and Dias, L. (2013). Visual activity and its association with myopia stabilisation. *Ophthalmic Physiol Opt*, 34(3), pp.353-361.
- Shaqiri, A., Roinishvili, M., Grzeczowski, L., Chkonia, E., Pilz, K., Mohr, C., Brand, A., Kunchulia, M. and Herzog, M. (2018). Sex-related differences in vision are heterogeneous. *Sci Rep*, 8(1), pp.1-10.
- Sherwood, L. (2010). *Human Physiology From Cells to System*. 7th ed. Belmont California: Brooks/Cole Cengage Learning, pp.195-213.

- Sieiro, R., Coelho, L., Boas, P., Fonseca, S., Souza, S. and Guimarães, T. (2016). Contrast sensitivity assessment in different age group in medium and high spatial frequency. *Rev Bras Oftalmol*, 75, pp.296-299.
- Solberg, J. and Brown, J. (2002). No Sex Differences in Contrast Sensitivity and Reaction Time to Spatial Frequency. *Percept Mot Skills*, 94(3), pp.1053-1055.
- Stoimenova, B. (2007). The Effect of Myopia on Contrast Thresholds. *Invest Ophthalmol Vis Sci*, 48(5), pp.2371-2374.
- Tortora, G. and Derrickson, B. (2012). *Principles of Anatomy & Physiology*. 14th ed. Hoboken, NJ: Wiley, pp.678-691.
- Verweyen, P. (2004). Measuring Vision in Children. *Community Eye Health*, 17(50), pp.27-29.
- Welch Allyn. (2016). Welch Allyn ®Spot® Vision Screener Model VS100 Directions fo ruse Software version 3.0.XX. [online] Available at: <https://www.welchallyn.com/en/products/categories/physical-exam/eye-exam/autorefractor/spot-vision-screener-autorefractor.html> [Accessed 17 Dec. 2018].
- Yamaguchi, T., Negishi, K., Kato, N., Arai, H., Toda, I. and Tsubota, K. (2009). Factors affecting contrast sensitivity with the Artisan phakic intraocular lens for high myopia. *J Refract Surg*, 25(1), pp.25-32.