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CooperVision Introduces No-Cost Axial Length Estimator and Nearsightedness Assessment Tools

Two New Online Tools Provide Insight into Myopia – One tool is for ECPs Practicing Myopia Management and One is for Parents

RICHMOND HILL, Ontario, January 20, 2021—As part of its global commitment to advancing myopia management practices, CooperVision today announced it has developed two new tools – an axial length estimator tool for Eye Care Professionals (ECPs) and a nearsightedness assessment tool for parents. The online axial length estimator tool is intended for use with children and is now available to Eye Care Professionals who are certified in the Brilliant Futures™ with MiSight® 1 day program. Certified ECPs can find more information at coopervision.ca/practitioner/axial-length-estimator. The easy-to-use nearsightedness assessment tool is available to parents at coopervision.ca/myopia-management/assessment-tool.

Axial Length Estimator Tool

Clinical studies investigating the effectiveness of a myopia management intervention typically review changes in refractive error and axial length over time. While virtually all clinical practices are equipped to assess refractive error, many have not yet invested in diagnostic instruments to gauge axial length.

“Understanding axial length can provide valuable information for ECPs who are managing childhood myopia, especially since the consequences of myopia-related pathology are significantly linked to that measureⁱ,” said Elizabeth Lumb, BSc (Hons), MCOptom, FBCLA, EMEA Head of Professional Services for MiSight® 1 day at CooperVision. “Our new estimator gives additional information to help Eye Care Professionals better understand the significance of axial length.”

CooperVision worked with Eurolens Research at the University of Manchester to develop the new tool, based on research published in *Contact Lens and Anterior Eye*ⁱⁱ. The paper describes how standard optometric measurements of refractive error and keratometry readings – easily obtained in clinical practice – can offer a good approximation of absolute ocular axial length.

The CooperVision Axial Length Estimator uses a formula from an analysis of extensive MiSight® 1 day contact lens clinical study data that demonstrates a highly correlated agreement between measured and calculated axial length ($R^2=0.83$)ⁱⁱⁱ. ECPs simply need to enter their patient’s refractive error (sphere and cylinder) and keratometry readings (in diopters or millimeters) to generate an axial length estimate.

Nearsightedness Assessment Tool

CooperVision is making it easier for parents and guardians worldwide to assess if their children may be more predisposed to myopia. The new Nearsightedness Assessment Tool provides a short survey that asks questions about a child’s age, family history of myopia, and how much near work the child does daily.

“With the current global pandemic causing children worldwide to spend more time inside and on digital devices, there is no better time for parents to pay close attention to their child’s eyesight. CooperVision is committed to providing helpful tools to parents that serve to raise awareness of the importance of regular eye examinations for children. The Nearsightedness Assessment Tool will help educate them on myopia and direct them to a local Brilliant Futures™ certified practitioner who can provide a comprehensive eye examination and discuss all options to manage myopia progression including prescribing contact lenses that can slow the progression of myopia,” said Alexandra Donkin, General Manager for CooperVision Canada.

The assessment tool complements CooperVision’s Myopia Simulator, a web-based tool that Eye Care Professionals around the globe can use to help illustrate myopia by using images of a range of school environments (a classroom, a science laboratory and a gymnasium). The simulator provides a visual guide through the eyes of an uncorrected myope from -1.00D through to -6.00D. Using a sliding scale, each scenario brings to life the near, intermediate and distance vision with differing levels of myopia.

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Canadian Indications for Use: MiSight (omafilcon A) Soft Contact Lenses for Myopia Control may reduce the rate of myopia progression in children (6-18) and correct ametropia. Reduction of myopia progression was observed in children with wearing time of 12 hours (8-16 hours) per day, 6.4 days (5-7) per week in a clinical study. Permanent myopia control after lens treatment is discontinued is not supported by clinical studies. MiSight (omafilcon A) Soft Contact Lenses for Myopia Control are indicated for single use daily disposable wear. When prescribed for daily disposable wear, the lens is to be discarded after each removal.

ⁱ J.W.L. Tideman, M.C.C. Snabel, M.S. Tedja, G.A. van Rijn, K.T. Wong, R.W.A.M. Kuijpers, et al., Association of axial length with risk of uncorrectable visual impairment for Europeans with myopia, *JAMA Ophthalmol* 134 (2016) 1355.

ⁱⁱ Philip B. Morgan, Sara J. McCullough and Kathryn J. Saunders, Estimation of ocular axial length from conventional optometric measures. *Contact Lens and Anterior Eye*, <https://doi.org/10.1016/j.clae.2019.11.005>

ⁱⁱⁱ Chamberlain P et al. A 3-year Randomized Clinical Trial of MiSight® Lenses for Myopia Control. *Optom Vis Sci* 2019; 96:556-567.

About CooperVision

CooperVision, a division of CooperCompanies (NYSE:COO), is one of the world's leading manufacturers of contact lenses. The company produces a full array of daily disposable, two-week and monthly soft contact lenses that feature advanced materials and optics, and premium rigid gas permeable lenses for orthokeratology and scleral designs. CooperVision has a strong heritage of addressing the toughest vision challenges such as astigmatism, presbyopia, childhood myopia, and highly irregular corneas; and offers the most complete portfolio of spherical, toric and multifocal products available. Through a combination of innovative products and focused practitioner support, the company brings a refreshing perspective to the marketplace, creating real advantages for customers and wearers. For more information, visit coopervision.ca.

About CooperCompanies

CooperCompanies ("Cooper") is a global medical device company publicly traded on the NYSE (NYSE:COO). Cooper operates through two business units, CooperVision and CooperSurgical. CooperVision brings a refreshing perspective on vision care with a commitment to developing a wide range of high-quality products for contact lens wearers and providing focused practitioner support. CooperSurgical is committed to advancing the health of women, babies and families with its diversified portfolio of products and services focusing on medical devices and fertility & genomics. Headquartered in San Ramon, Calif., Cooper has a workforce of more than 12,000 with products sold in over 100 countries. For more information, please visit www.coopercos.com.