

MYOPIA:

THE BIGGEST EYE HEALTH THREAT OF THE 21ST CENTURY^{1,2,3}

CURRENT STATE OF MYOPIA

Myopia, or nearsightedness, is the **#1** eye defect.^{2,3} It increases risk of **retinal degeneration and detachment, cataracts and glaucoma.**

Unchecked, it will become the leading cause of irreversible vision impairment and blindness⁴

High myopia is severe nearsightedness⁴

70%

of those with high myopia will develop retinal disease in their lifetime with an increased risk of blindness^{5,6,7}

RISK FACTORS³



Too much near work (reading, writing, screen time)



Genetic predisposition



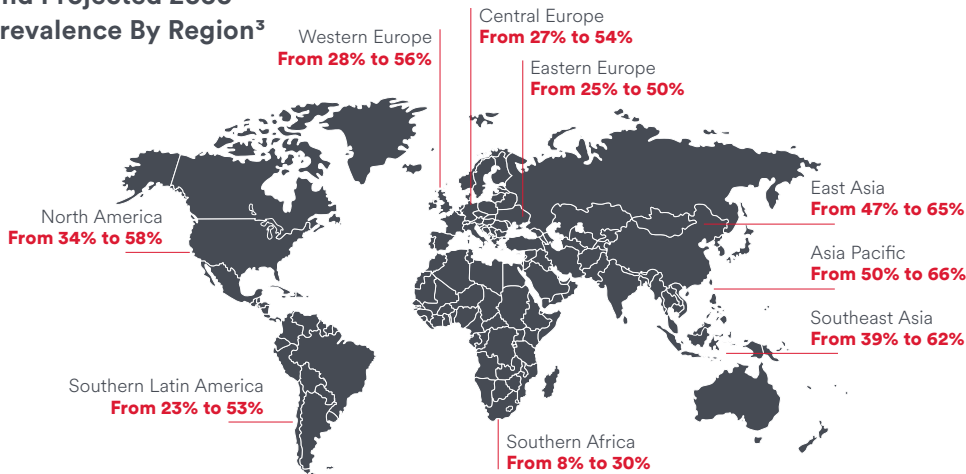
Limited time spent outdoors

INCREASING GLOBAL BURDEN OF MYOPIA



By 2050, half of the world's population is projected to be myopic – and 1 billion are expected to have high myopia³

Current and Projected 2050 Myopia Prevalence By Region³



Uncorrected distance refractive errors, largely caused by myopia, are estimated to cost global healthcare systems

\$202 Billion³ annually

GREATEST IMPACT IN ASIA

Prevalence rates are as high as **80-97%** among youth in urban areas of Singapore, China, Japan, South Korea, Taiwan and Hong Kong⁸



Children are the most vulnerable. Prevalence rises from less than 10% at age 6 to 80% at age 18 in urban areas of China⁹

A COMMITMENT TO HALTING THE MYOPIA EPIDEMIC

Few modalities are currently approved by regulatory bodies to control myopia. Johnson & Johnson Vision aims to close this gap and supports other broad based strategies to turn the myopia trajectory. The research partnership with the Singapore Eye Research Institute and the Singapore National Eye Centre will combat the onset, progression and treatment of myopia.



1 Internal data on file
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3 Holden et al Ophthalmol 2016; 123: 1036
4 Fredrick, D. R. (2002). Myopia. BMJ, 324(7347), 1195-1199. doi:10.1136/bmj.324.7347.1195
5 Shih et al BrJOphthalmol 2006;90:546
6 Brennan and Cheng.IOVS (ARVO abstracts) 2017;58(8):2384
7 Wong et al IOVS 2018;59:4603
8 Ding et al Survey of Ophthalmol 2015
9 Taiwan, Lin et al 2000 Ann Acad Med Singapore 2004; 33:27-33

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