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Myopia is a public health crisis with long-term economic and social implications, say the writers, It increases the risk of severe complications later in life such as ret detachment, glaucoma and macular degeneration. These can lead to visual impairment and significantly reduce quality of life. ST PHOTO, GAVIN FOO

Shift the focus to tackle myopia in Singapore

PAST EFFORTS TO TACKLE MYOPIA

Past Errors to to tacket Prove may be applied of the world – an work and the tacket of the world – an work and "distinction" that hits young Singaporeans particularly hard, Nearly 65 per cent of 12-year-olds and 80 per cent of 12-year-olds and 80 per cent of per cent of 12-year-olds in Britain and Australia respectively are myopic.

It may be irreversible, but the battle with short-sightedness needs to be contained, if not won.

Goh Jit Khong Jake and Foo Li Lian

Ten-year-old Ethan suddenly developed myopia, and it quickly get worse. But where once the second strong and the second or prevailing stronger lenses, his vision was stabilised with the use of myopia-control spectacle lenses. Sarah, a 12-year-old dancer, switched to Ortho-K (orthokeratology) lenses, gaining freedom from glasses and the second strong stronger lenses has and regular follow-ups in myopia – and in the wider picture, how a whole-of-society approach is needed. While myopia, or sub-conditioner and the second strong end of the second strong stronger progression. Control spectacle lenses focus peripheral light repe to provide clear vision during the day, while slowing myopia progression. Control spectacle uses focus peripheral light repe eye moving from its normal eye moving from its normal could shape to being too long or oval. Sure, conventional corrective glasses and contact lenses help the short-sighted, but parents developments, or they may be complacent and think that when the child is older, they can simply and they clear strong and social implications. It increases the risk of severe complications lear in life sub-strong that repeats the risk of severe complications lear in life sub-strong the severe significantly reduce quality of life.

life. Addressing it requires systemic changes that go beyond individual responsibility. This involves rethinking school

dropped from 20 per cent to 18 per cent, and high myopia from 11 per cent to 7 per cent during the same period. MANAGING THE PROBLEM policies, creating urban spaces that encourage outdoor activity, and adopting hard measures to reduce screen time. The focus must shift from prevention to containment, emphasising early intervention, consistent follow-ups and comprehensive public education.

per cent of 12-year-olds in Britain and Australia respectively are myopic. Yet, there have been decades of public health efforts and targeted the content of the public health of the save in schools, including the National Myopia Prevention Programme launched in 2001 by the Health Promotion Board in partnership with the Ministry of Education and the Singapore National Eye Centre. It includes initiatives such as annual vision screenings for Kindergarten 1 to Primary 4 children, educational wollshops for Mindergarten 1 to Primary 4 children, educational wollshops for forts have also been introduced. The Early Childhood Development Agency mandates at least 30 minutes of cuttoor play daily or 45 minutes three times a week for children in 1020s to provide tailored Centre was established in Bedok in 200s to provide tailored Centre woola. in 2018 to provide tailored treatment and education for both children and adults with progressive myopia. The proper sector of the numbers significantly shifted the numbers for younger children. For example, in selected primary schools, the prevalence of low myopia remains around 20 per cent, while moderate and high myopia decreased only 2023. In secondary schools, on the other hand, moderate myopia

Myopia's progression can be managed through containment strategies. This involves delaying onset, slowing progression and mitigating the risks of complications. A multi-faceted individual actions with systemic support across all age groups. Early intervention with systemic support across all age groups. Early intervention with systemic support across all age groups. Early intervention with systemic support across all age groups. Early intervention with systemic support across all age groups. Control spectacle and induce low-desceription and the systemic may carry accessibility challenges. In Singapore, these leness are nether subsidised nor covered by insurance, making them a financial strain for many families. Contact lenses, in particular, demand frequent visits to and monitoring, adding inconvenience for busy parents. They also carry risks like infection or corneal scarring if mishandled, hough such issues are rare with proper hygiene. Despite these hurdles, their proven ability to slow myopia drawbacks, provided users: adhere to care and follow-up routines. Schools also play a critical role in managing myopia, given the and monitor into endibler spent there. They shold prioritise outdoor learning, incorporating undoor learning incorporating undoor learning incorporating undoor learning, incorporating undoor learning incorpora

humid climate, combined with the preference for indoor physical education, further limits outdoor exposure. SCREEN-TIME IMPACT SCREEN-TIME IMPACT The rise of digital learning has made screen time unavoidable. Every student now uses a table or similar device for schoolwork, A 2024 meta-analysis published heat the student of the school of the significant association between hBMC Public Health confirmed a significant association between the significant association between objects involves peering closely at a screen, a known tisk factor prolonged docus on screens within arm's length adds to the strain on young eyes. Reducing screen time is not solely a parental responsibility. Policymakers, educators and technology developers must eyes.

Policymakers, educators and technology developers must collaborate to protect young In 2021, China's Ministry of Education prohibited personal mobile phones in classrooms to reduce myopia risks. Singapore could consider similar measures, while also addressing recreational education compations and policies that encourage device-free family activities. Balancing technology use with explanding the phones for ether, har mobile phones for ether, har mobile phones for ether about regular vision breaks. Singapore might draw inspiration from Taiwan's '200 Every Day'' policy, which encourages at least 120 minutes's State Council has implemented policies to minimise homework loads, regulate after-school tutoring and promote outdoor time, demonstrating a systemic approach to tackling myopia. Approach stackling myopia. Apprent system outdoor activities to complement school forts. Urban planning can also support eye health by increasing green spaces and recreational families. The link between high myopia ungenes made all further adds urgeney to addressing excessive

In driven a beach in the radia urgency to addressing excessive screen use. Studies show that children with severe myopia are more prone to anxiety and depression, underscoring the conditions far-reaching impact. To tackle this, containment strategies must be paired with systemic reforms. Singapore's vision health hinges on decisive action today to scurce a brighter future for the next generation.

future for the next generation. • Goh Jit Khong Jake is an adjunct assistant professor at NUS Saw Swee Hock School of Public Health-Foo Li Lian is consultant ophthalmologist and the clinical director of the Myopia Service at Singapore National Eye Centre. She is also a clinical assistant professor at Duke-NUS Medical School.

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