

**Supplementary material****Supplementary Table 1: Association analysis for myopic 5-year change in spherical equivalent (more than -0.5D) in phakic eyes. Data from the German population-based Gutenberg Health Study (2007-2017).**

Multivariable logistic regression analysis with generalized estimating equations was conducted.

<i>(n=15,836 eyes)</i>	<i>OR</i>	<i>95%-CI</i>	<i>P</i>
Sex [female]	1.49	1.28; 1.73	<b>&lt;0.001</b>
Age [per year]			
Linear term	0.52	0.49; 0.55	<b>&lt;0.001</b>
Quadratic term	1.01	1.01; 1.01	<b>&lt;0.001</b>
<i>Cardiovascular parameters</i>			
HbA1c [%]	1.07	0.95; 1.20	0.27
HDL-cholesterol [mg/dl]	1.00	0.99; 1.00	0.75
LDL-cholesterol [mg/dl]	1.00	1.00; 1.00	0.81
Triglycerides [mg/dl]	1.00	1.00; 1.00	0.33
BMI [kg/m <sup>2</sup> ]	1.00	0.98; 1.01	0.86
Physical activity	1.00	1.00; 1.00	0.28
<i>Smoking history</i>			
Non-smoker		<i>Reference</i>	
Smoker	0.96	0.80; 1.16	0.70
Occasional smoker	0.91	0.58; 1.44	0.70
Former smoker	1.10	0.95; 1.26	0.19
<i>Ocular parameters</i>			
Spherical equivalent [D]	0.89	0.87; 0.91	<b>&lt;0.001</b>
IOP [mmHg]	1.01	0.99; 1.03	0.54
Lens opacity	1.09	0.91; 1.30	0.36
<i>Education</i>			
Secondary general school („Hauptschule“)		<i>Reference</i>	
Intermediate school („Realschule“)	0.96	0.81; 1.14	0.64
High school („Abitur“)	0.96	0.81; 1.12	0.58
Others	0.52	0.17; 1.57	0.25
None	0.91	0.28; 2.94	0.88
<i>Occupation</i>			
Housemaker, retired or none		<i>Reference</i>	
Agriculture, forestry, animal husbandry and horticulture	1.11	0.69; 1.78	0.67
Production and manufacturing	0.89	0.67; 1.18	0.42
Construction and architecture	1.06	0.70; 1.60	0.78
Natural and computer science	1.09	0.79; 1.51	0.61
Transport, logistics, security and military	1.20	0.87; 1.64	0.26
Commercial services and tourism	1.02	0.76; 1.36	0.90
Business organization, accounting, law and administration	0.96	0.78; 1.18	0.70
Health and education	0.82	0.65; 1.05	0.12
Humanities, media and culture	0.81	0.55; 1.20	0.29