### Supplementary Table 1. Population- and hospital-based studies that assessed retinal vessel caliber using Retinal Analysis, IVAN and SIVA

<table>
<thead>
<tr>
<th>Study Name/ Population</th>
<th>Population Size</th>
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<tbody>
<tr>
<td><strong>RA</strong></td>
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<td>Atherosclerosis Risk in Communities study¹</td>
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<td>Cardiovascular Health Study²</td>
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<td>AusDiab³</td>
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<td>The Rotterdam study⁴</td>
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<td>The Funagata study⁷</td>
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<td>The Hoorn Study⁸</td>
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<td>SCORM⁹</td>
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<td>Children recruited from the Children’s Hospital at Westmead¹⁰</td>
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<td>Department of Cardiology at Austin Health¹¹</td>
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<td>EDC¹²</td>
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<td>International Diabetes Institute general eye clinics at the Royal Victorian Eye and Ear Hospital¹³</td>
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<td>Type 2 diabetes and healthy controls¹⁴</td>
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<td>The New Jersey 725 study¹⁵</td>
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<td>The Handan Eye Study¹⁶</td>
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<td>BODYLab¹⁷</td>
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<td><strong>IVAN</strong></td>
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<td>MESA²¹</td>
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<td>The Sydney Childhood Eye Study²²</td>
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<td>Sydney Eye Hospital²⁴</td>
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<td>TEST²⁵</td>
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<td>Twins UK Adult Twin Registry²⁶</td>
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<td>SP²⁸</td>
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Shinoda General Hospital[29] 1003
Chaim Sheba Medical center[31] 285
Diabetic and non-diabetic patients[32] 43
Royal Victorian Eye and Ear Hospital, Melbourne[33] 202
Diabetic Management Project[34] 289
Local programme of screening for cardiovascular risk[35] 80
Sydney Pediatric Eye Disease Study[36] 1077
The Tromsø Study 6[37] 3309
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Guangzhou Twin Eye Study[44] 2086
The Danish Cohort of Pediatric Diabetes[45] 339
POLA[46] 2113
Age, Gene/Environment Susceptibility-Reykjavik Study[47] 2300
Department of Ophthalmology at Kyoto University Hospital[48] 212

SIVA

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Diabetics/ non-diabetics[50] 327
SiMES[51] 3280
Volunteers[52] 15
GUSTO Study[53] 1248
AIBL[54] 1166
SiMES, SCES, SIND[55] 10033
Dunedin Study[56] 1007
MCRS[57] 1114
Diabetes Complications Assessment Service at Children’s Hospital[58] 481
Alzheimer's Disease recruited from dementia/memory clinics from NUH, KTPH and SGH. Controls recruited from SEED.

AusDiab = Australian Diabetes, Obesity and Lifestyle study; WESDR = Wisconsin Epidemiologic Study of Diabetes; BDES = Beaver Dam Eye Study; SCORM = Singapore Cohort Study of Risk Factors for Myopia; EDC = Pittsburgh Epidemiology of Diabetes Complications Study; BODyLab = NYU School of Medicine’s Brain, Obesity, and Diabetes Laboratory; BMES = Blue Mountains Eye Study; MESA = Multi-Ethnic Study of Atherosclerosis; SiMES = Singapore Malay Eye Study; TEST = Twins Eye Study in Tasmania; SP2 = Singapore Prospective Study Program; AIDS = acquired immune deficiency syndrome; STARS = Strabismus, Amblyopia and Refractive Error Study in Singaporean Chinese Pre-schoolers Family study; EUREYE = European Eye study; POLA = Pathologies Oculaires Liées à l’Age Study; GUSTO = Growing Up in Singapore Towards Health Outcomes; AIBL = Australian Imaging, Biomarkers and Lifestyle; SCES = Singapore Chinese Eye Study; SiINDI = Singapore Indian Eye Study; MCRS = Multi-Center Retinal Stroke Study; NUH = National University of Hospital; KTPH = Khoo Teck Puat Hospital; SGH = Singapore General Hospital; SEED = Singapore Epidemiology of Eye Diseases.
REFERENCES


