**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>
</tr>
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<tbody>
<tr>
<td><strong>RA</strong></td>
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<td>Atherosclerosis Risk in Communities study$^1$</td>
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<tr>
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<td>AusDiab$^3$</td>
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<td>The Rotterdam study$^4$</td>
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<tr>
<td>WESDR$^5$</td>
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<td>BDES$^6$</td>
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<td>The Funagata study$^7$</td>
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<td>The Hoorn Study$^8$</td>
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<td>SCORM$^9$</td>
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<td>Children recruited from the Children’s Hospital at Westmead$^{10}$</td>
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<td>Department of Cardiology at Austin Health$^{11}$</td>
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<td>EDC$^{12}$</td>
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<td>International Diabetes Institute general eye clinics at the Royal Victorian Eye and Ear Hospital$^{13}$</td>
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<td>Type 2 diabetes and healthy controls$^{14}$</td>
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<td>The New Jersey 725 study$^{15}$</td>
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<td>The Handan Eye Study$^{16}$</td>
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<td>BODYLab$^{17}$</td>
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<td><strong>IVAN</strong></td>
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<td>MESA$^{21}$</td>
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<td>The Sydney Childhood Eye Study$^{22}$</td>
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<td>SiMES$^{23}$</td>
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<td>Sydney Eye Hospital$^{24}$</td>
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<td>TEST$^{25}$</td>
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<td>Twins UK Adult Twin Registry$^{26}$</td>
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<td>Diabetes Changfeng Study$^{27}$</td>
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<td>SP2$^{28}$</td>
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</table>
Shinoda General Hospital\textsuperscript{29} 1003

Longitudinal Studies of the Ocular Complications of AIDS\textsuperscript{30} 1712

Chaim Sheba Medical center\textsuperscript{31} 285

Diabetic and non-diabetic patients\textsuperscript{32} 43

Royal Victorian Eye and Ear Hospital, Melbourne\textsuperscript{33} 202

Diabetic Management Project\textsuperscript{34} 289

Local programme of screening for cardiovascular risk\textsuperscript{35} 80

Sydney Pediatric Eye Disease Study\textsuperscript{36} 1077

The Tromso Study\textsuperscript{6}\textsuperscript{37} 3309

STARS\textsuperscript{38} 592

Odense University Hospital\textsuperscript{39} 46

Royal Prince Alfred Hospital, Sydney\textsuperscript{40} 92

EUREYE\textsuperscript{41} 684

Kyoto University Hospital Department of Ophthalmology\textsuperscript{42} 238

Adult Health Study of Japanese atomic bomb survivors\textsuperscript{43} 2263

Guangzhou Twin Eye Study\textsuperscript{44} 2086

The Danish Cohort of Pediatric Diabetes\textsuperscript{45} 339

POLA\textsuperscript{46} 2113

Age, Gene/Environment Susceptibility-Reykjavik Study\textsuperscript{47} 2300

Department of Ophthalmology at Kyoto University Hospital\textsuperscript{48} 212

\textbf{SIVA}

Sydney Pediatric Diabetes Study\textsuperscript{49} 1159

Diabetics/ non-diabetics\textsuperscript{50} 327

SiMES\textsuperscript{51} 3280

Volunteers\textsuperscript{52} 15

GUSTO Study\textsuperscript{53} 1248

AIBL\textsuperscript{54} 1166

SiMES, SCES, SIND\textsuperscript{55} 10033

Dunedin Study\textsuperscript{56} 1007

MCRS\textsuperscript{57} 1114

Diabetes Complications Assessment Service at Children’s Hospital\textsuperscript{58} 481
Alzheimer's Disease recruited from dementia/memory clinics from NUH, KTPH and SGH. Controls recruited from SEED.

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AusDiab = Australian Diabetes, Obesity and Lifestyle study; WESDR = Wisconsin Epidemiologic Study of Diabetic; 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


