**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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<tr>
<td>Atherosclerosis Risk in Communities study(^1)</td>
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<tr>
<td>Cardiovascular Health Study(^2)</td>
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<tr>
<td>AusDiab(^3)</td>
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<tr>
<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>BMES (^18)</td>
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<tr>
<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>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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Shinoda General Hospital[29] 1003
Chaim Sheba Medical center[31] 285
Diabetic and non-diabetic patients[32] 43
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POLA[46] 2113
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SIVA

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SiMES[51] 3280
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GUSTO Study[53] 1248
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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 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; SINDI= 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


