**S1 Table.** Aneurysm characteristics of identified 36 ECAAs (both complete and incomplete carotid imaging) in the Finnish cohort.

|                | Fusiform n = 26 | Saccular n = 10 |
|----------------|-----------------|-----------------|
| ECAA related symptoms |                 |                 |
| Ipsilateral ischemic stroke / TIA | 1 (4) | 1 (10) |
| Horner’s syndrome | 1 (4) | 1 (10) |
| Cranial nerve deficit | 2 (8) | 1 (10) |
| Asymptomatic | 13 (50) | 4 (40) |
| Unknown | 9 (35) | 3 (30) |
| Presumed etiology in radiology report |                 |                 |
| Dissection | 6 (23) | 2 (20) |
| Connective tissue disease | 1 (4) | - |
| Atherosclerosis | 4 (15) | - |
| Iatrogenic | 1 (4) | 1 (10) |
| Unknown | 14 (54) | 7 (70) |
| Side |                 |                 |
| Left | 18 (69) | 5 (50) |
| Right | 8 (31) | 5 (50) |
| Size in mm, median (range) | 9.4 (7.4 – 35.0) | 4.3 (2.0 – 7.2) |
| Location IA cerebral circulation |                 |                 |
| Anterior circulation | 22 (85) | 8 (80) |
| Posterior circulation | 3 (12) | 2 (20) |
| Both anterior & posterior circulation | 1 (4) | - |
| Multiple IA | 5 (19) | 1 (10) |
| Fusiform IA | 1 (4) | 1 (10) |

Data are presented as n=number of aneurysms (%) unless otherwise indicated. ECAA = extracranial carotid artery aneurysm, TIA = transient ischemic attack, mm = millimeter, IA = intracranial aneurysm.