**Supplementary Table 1:** Univariable and multivariable logistic regression analyses using presence of large vessel occlusion in computed tomography angiography as the dependent variable.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Univariable analysis | | Multivariable analysis | |
|  | Odds ratio  (95% confidence interval) | p | Adjusted odds ratio  (95% confidence interval) | p |
| Peak systolic velocity (per 1 cm/s increase) | 0.98 (0.95-1.01) | 0.139 | - | - |
| End diastolic velocity (per 1 cm/s increase) | 0.51 (0.31-0.84) | 0.008 | 0.47 (0.19-1.21) | 0.119 |
| Mean flow velocity (per 1 cm/s increase) | 0.93 (0.87-0.99) | 0.035 | 1.05 (0.82-1.33) | 0.709 |
| Pulsatility index (per 0.01-point increase) | 1.05 (1.01-1.08) | 0.007 | 0.88 (0.72-1.08) | 0.228 |
| Resistance index (per 1-point increase) | 1.23 (1.06-1.43) | 0.008 | 1.55 (0.69-3.49) | 0.286 |
| CCA flow profile compatible with large vessel occlusion | 38.5 (3.75-395.41) | 0.002 | 4.17 (0.06-281.53) | 0.506 |

**Supplementary Table 2:** Individual patient results of duplex ultrasonography parameters of the common carotid artery according to the presence of large vessel occlusion and presence of flow profile compatible with large vessel occlusion (evaluated by experienced neurologist).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient** | **Large vessel occlusion (CTA)** | **Peak systolic velocity (cm/s)** | **End diastolic velocity (cm/s)** | **Mean flow velocity (cm/s)** | **Pulsatility index** | **Resistance index** | **CCA flow profile compatible with large vessel occlusion** | **Commentary (possible reasons for false positives / negatives)** |
| 1 | No | 35 | 15 | 21.7 | 0.9 | 0.57 | No |  |
| 2 | No | 80 | 25 | 43.3 | 1.3 | 0.69 | No |  |
| 3 | No | 90 | 20 | 43.3 | 1.6 | 0.78 | No |  |
| 4 | No | 30 | 15 | 20 | 0.8 | 0.50 | No |  |
| 5 | No | 50 | 15 | 7 | 1.3 | 0.70 | No |  |
| 6 | No | 70 | 20 | 36.7 | 1.4 | 0.71 | No |  |
| 7 | No | 85 | 20 | 41.7 | 1.6 | 0.76 | No |  |
| 8 | No | 100 | 30 | 53.3 | 1.3 | 0.70 | No |  |
| 9 | No | 90 | 10 | 36.7 | 2.2 | 0.89 | Yes | Aortic valve insufficiency |
| 10 | No | 80 | 30 | 46.7 | 1.1 | 0.63 | No |  |
| 11 | No | 80 | 30 | 46.7 | 1.1 | 0.63 | No |  |
| 12 | No | 75 | 15 | 35 | 1.7 | 0.80 | No |  |
| 13 | No | 140 | 25 | 63.3 | 1.8 | 0.82 | No |  |
| 14 | No | 55 | 10 | 25 | 1.8 | 0.82 | No |  |
| 15 | No | 60 | 15 | 30 | 1.5 | 0.75 | No |  |
| 16 | M1 | 70 | 10 | 30 | 2.0 | 0.86 | No | Unclear time of symptom onset (last seen well 15h before) |
| 17 | M1 | 25 | 5 | 11.7 | 1.7 | 0.80 | Yes |  |
| 18 | M1 | 45 | 5 | 18.3 | 2.2 | 0.89 | Yes |  |
| 19 | M1 | 50 | 10 | 23.3 | 1.7 | 0.80 | Yes |  |
| 20 | M1 | 55 | 10 | 25 | 1.8 | 0.82 | Yes |  |
| 21 | M1 | 65 | 15 | 31.7 | 1.6 | 0.77 | No | Distal M1 occlusion |
| 22 | M1 | 110 | 10 | 43.3 | 2.3 | 0.91 | Yes |  |
| 23 | M1 | 50 | 10 | 23.3 | 1.7 | 0.80 | No | Unclear time of symptom onset (last seen well 20h before) |
| 24 | M1 | 60 | 10 | 26.7 | 1.9 | 0.83 | Yes |  |
| 25 | Carotid-T | 110 | 10 | 43.3 | 2.3 | 0.91 | Yes |  |
| 26 | Carotid-T | 85 | 10 | 35 | 2.1 | 0.88 | Yes |  |
| 27 | Carotid-T | 35 | 10 | 18.3 | 1.4 | 0.71 | No | No possible confounder found |
| 28 | Carotid-T | 40 | 5 | 16.7 | 2.1 | 0.88 | Yes |  |
| 29 | Carotid-T | 20 | 0 | 6.7 | 3.0 | 1.0 | Yes |  |
| 30 | Carotid-T | 70 | 10 | 30 | 2.0 | 0.86 | Yes |  |

**Supplementary Table 3:** Duplex ultrasonography parameters according to presence of M1 or carotid-T occlusion

|  |  |  |  |
| --- | --- | --- | --- |
|  | **M1 occlusion (n=9)** | **Carotid T occlusion (n=6)** | **p** |
| Peak systolic velocity (cm/s) | 55 (50-65) | 55 (35-85) | 0.906 |
| End diastolic velocity (cm/s) | 10 (10-10) | 10 (5-10) | 0.397 |
| Mean flow velocity (cm/s) | 25.0 (23.3-30.0) | 24.2 (16.7-35.0) | 0.859 |
| Pulsatility index | 1.8 (1.7-2.0) | 2.1 (2.0-2.3) | 0.192 |
| Resistance index | 0.82 (0.80-0.86) | 0.88 (0.86-0.91) | 0.192 |
| CCA flow profile compatible with large vessel occlusion | 6 (66.7) | 5 (83.3) | 0.474 |

Data presented as median (interquartile range) or n (%).