**Additional File**

Table 1 Primers used for real-time qPCR

|  |  |
| --- | --- |
| **Primer name** | **Primer sequence** |
| ICAM‐1 (forward) | 5′‐TCACCTATGGCAACGACTCC‐3′ |
| ICAM‐1 (reverse) | 5′-GTGTCTCCTGGCTCTGGTTC‐3′ |
| VCAM‐1 (forward) | 5′‐GAAGGTGGCTCTGTGACCAT‐3′ |
| VCAM‐1 (reverse) | 5′‐AAAGGTGCTGTAGATTCCCATT‐3′ |
| GAPDH (forward)  | 5′‐GCACCGTCAAGGCTGAGAAC‐3′ |
| GAPDH (reverse)  | 5′‐TGGTGAAGACGCCAGTGGA‐3′ |



Fig.1. (a) The viability of ECs in the carotid artery model. (b) The functionality of ECs in the carotid artery model.



Fig.2. The SI of ECs in the carotid artery model in different study regions and time