### Supplementary Table 1. Univariate and multivariate logistic regression analyses of outer curvature-type aneurysm occurrence

| Variable      | Univariate          | Multivariate         |
|---------------|---------------------|----------------------|
|               | OR (95% CI)         | P        | OR (95% CI) | P        |
| Parent vessel TI | 1.04 (1.01–1.08) | 0.01 | 1.04 (1.01–1.07) | 0.02 |
| Average TI    | 1.23 (1.09–1.37)   | <0.01 | 1.20 (1.08–1.33) | <0.01 |
| L ACA TI      | 1.03 (0.99–1.07)   | 0.19 |                |        |
| R ACA TI      | 0.99 (0.96–1.02)   | 0.62 |                |        |
| BA TI         | 1.08 (1.01–1.15)   | 0.04 | 1.07 (1.00–1.14) | 0.05 |
| L MCA TI      | 1.03 (0.98–1.09)   | 0.21 |                |        |
| R MCA TI      | 1.04 (0.99–1.09)   | 0.09 | 1.03 (0.99–1.08) | 0.13 |
| L PCA TI      | 1.02 (0.99–1.04)   | 0.20 |                |        |
| R PCA TI      | 1.01 (0.99–1.03)   | 0.42 |                |        |
| L VA TI       | 1.05 (1.01–1.10)   | 0.03 | 1.04 (1.01–1.07) | 0.02 |
| R VA TI       | 1.04 (1.01–1.08)   | <0.01 | 1.05 (1.01–1.09) | 0.03 |
| L ICA TI      | 1.02 (0.99–1.04)   | 0.15 |                |        |
| R ICA TI      | 1.05 (1.01–1.08)   | 0.02 | 1.04 (1.01–1.08) | 0.02 |

Covariates in multivariate analyses were sex, height, hypertension, diabetes mellitus, dyslipidemia, smoking, and alcohol use.

OR, odds ratio; CI, confidence interval; TI, tortuosity index; L, left; ACA, anterior cerebral artery; R, right; BA, basilar artery; MCA, middle cerebral artery; PCA, posterior cerebral artery; VA, vertebral artery; ICA, internal carotid artery.

### Supplementary Table 2. Recanalization rate according to classification

| Variable                  | Total (n=87) | Bifurcation-type aneurysm (n=41) | Outer curvature-type aneurysm (n=46) | P |
|---------------------------|--------------|----------------------------------|-------------------------------------|----|
| Non-recanalization        | 70 (80.5)    | 29 (70.7)                        | 41 (89.1)                          | 0.06 |
| Recanalization            | 17 (19.5)    | 12 (29.3)                        | 5 (10.9)                           |    |
| Complete occlusion to recanalization | 8 (9.2) | 6 (14.6) | 2 (4.4) | 0.20 |
| Residual neck growing     | 9 (10.3)     | 6 (14.6)                         | 3 (6.5)                            | 0.30 |
| Retreatment               | 10 (11.5)    | 8 (19.5)                         | 2 (4.4)                            | 0.06 |

Values are presented as number (%).