

Table 2

Accuracy and precision: analysis of variance including corresponding statistical parameters for all aneurysm models dependent on the microcatheter tip shape

| | Microcatheter | Mean±SD* (mm) | p-value (ANOVA) | Pair-wise comparison (t-test) |
|------------------|---------------|------------------|--------------------|----------------------------------|
| accuracy | straight | 3.92±1.49 | 0.037 | straight vs. 45° p=0.498 |
| | 45° | 3.81±1.41 | | 45° vs. 90° p=0.014 |
| | 90° | 4.21±1.60 | | 90° vs. straight p=0.074 |
| precision | straight | 1.22±0.61 | 0.028 | straight vs. 45° p=0.068 |
| | 45° | 1.10±0.64 | | 45° vs. 90° p=0.010 |
| | 90° | 1.27±0.57 | | 90° vs. straight p=0.446 |

*SD=standard deviation

Table 3

Accuracy and precision: t-test including corresponding statistical parameters for all aneurysm models dependent on the operator

| | Operator | Mean±SD* (mm) | p-value |
|------------------|-----------------|--------------------------|----------------|
| accuracy | 1 | 4.13±1.7 | 0.167 |
| | 2 | 3.95±1.2 | |
| precision | 1 | 1.18±0.6 | 0.013 |
| | 2 | 1.32±0.6 | |

*SD=standard deviation

Table 4

Accuracy and precision: analysis of variance including corresponding statistical parameters for all microcatheter shapes dependent on the aneurysm model and the aneurysm location

| | Aneurysm # | Mean±SD* (mm) | p-value (ANOVA) |
|------------------|-------------------|--------------------------|----------------------------|
| accuracy | 1 | 3.04±1.55 | <0.001 |
| | 2 | 4.86±1.07 | |
| | 3 | 4.23±1.52 | |
| | 4 | 5.25±1.41 | |
| | 5 | 3.69±1.85 | |
| | 6 | 3.70±1.35 | |
| | 7 | 3.65±0.42 | |
| | 8 | 3.25±0.87 | |
| precision | 1 | 0.81±0.54 | <0.001 |
| | 2 | 0.82±0.31 | |
| | 3 | 1.22±0.60 | |
| | 4 | 1.62±0.51 | |

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|---|-----------|
| 5 | 1.19±0.50 |
| 6 | 1.77±0.58 |
| 7 | 1.38±0.57 |
| 8 | 1.12±0.58 |

| | Aneurysm group (1=ICA, 2 =Pcom) | Mean±SD* (mm) | p-value (t- test) |
|------------------|--|--------------------------|------------------------------|
| accuracy | 1 | 4.56±1.54 | <0.001 |
| | 2 | 3.38±1.20 | |
| precision | 1 | 1.17±0.55 | 0.297 |
| | 2 | 1.23±0.67 | |

*SD=standard deviation