

**Supplemental Table 3. CVR differences between patients with different circle of Willis configurations.**

	Non-Intervened Hemisphere		Intervened Hemisphere	
	Pre-revascularization	Post-revascularization	Pre-revascularization	Post-revascularization
<b>ACA Territory</b>				
Intact CoW	0.090 ± 0.060	0.193 ± 0.064	0.033 ± 0.050	0.151 ± 0.029
No ACoA	0.046 ± 0.024	0.090 ± 0.041	-0.017 ± 0.009	0.058 ± 0.030
No PCoA	0.086 ± 0.053	0.130 ± 0.025	0.076 ± 0.039	0.154 ± 0.024
No ACoA +PCoA	0.112 ± 0.062	0.093 ± 0.021	0.062 ± 0.047	0.088 ± 0.014
<b>MCA Territory</b>				
Intact CoW	0.131 ± 0.044	0.197 ± 0.041	0.024 ± 0.016	0.147 ± 0.005
No ACoA	0.104 ± 0.052	0.150 ± 0.046	0.001 ± 0.014	0.100 ± 0.022
No PCoA	0.084 ± 0.055	0.157 ± 0.022	0.001 ± 0.057	0.163 ± 0.017
No ACoA +PCoA	0.117 ± 0.05	0.171 ± 0.037	0.057 ± 0.026	0.145 ± 0.019
<b>PCA Territory</b>				
Intact CoW	0.217 ± 0.015	0.295 ± 0.042	0.190 ± 0.027	0.270 ± 0.035
No ACoA	0.287 ± 0.027	0.307 ± 0.022	0.257 ± 0.042	0.314 ± 0.026
No PCoA	0.228 ± 0.038	0.299 ± 0.019	0.242 ± 0.040	0.306 ± 0.017
No ACoA +PCoA	0.221 ± 0.099	0.181 ± 0.082	0.337 ± 0.038	0.354 ± 0.039
<b>Cerebellar Territory</b>				
Intact CoW	0.217 ± 0.044	0.293 ± 0.064	0.235 ± 0.025	0.310 ± 0.071
No ACoA	0.259 ± 0.037	0.301 ± 0.026	0.228 ± 0.035	0.0296 ± 0.018

No PCoA	0.266 ± 0.050	0.301 ± 0.022	0.283 ± 0.047	0.290 ± 0.020
No ACoA +PCoA	0.231 ± 0.109	0.349 ± 0.030	0.229 ± 0.098	0.393 ± 0.057

Patients were divided into four different groups depending on their circle of Willis configuration: Intact CoW (age range, 32 -78; mean age, 51; n=3; 1 male), No ACoA (age range, 18-39; mean age, 26, n=5; 2 males), no PCoA (age range, 21-78; mean age, 50; n=9; 5 males), and no ACoA+PCoA (age range, 25-50; mean age, 39; n=3; 1 male). No significant differences were seen between each group with different circle of Willis configurations. CoW indicates circle of Willis; ACoA, anterior communicating artery; PCoA, posterior communicating artery. All values in % MR signal change/mmHg, mean±SE.