

Online Table 1: Threshold values for all cases and the reconstruction kernels.

Case	EE sharp	EE normal	EE smooth	HU sharp	HU normal	HU smooth
1	7339.8	6349.0	5703.2	5482.6	5284.3	5425.4
2	2207.2	2893.3	3079.8	2169.0	2441.3	2690.3
3	5822.4	5349.6	5464.8	4528.0	4403.4	4316.3
4	8395.1	6366.4	6654.5	5344.5	5258.3	5148.4
5	5693.8	4578.4	4126.6	3475.1	3104.3	2845.3
6	8035.3	7400.3	7190.6	5528.9	5444.4	5226.4
7	6464.8	5354.0	5508.3	3684.5	4218.0	4226.7
8	2160.7	2970.9	3025.4	2787.3	2698.4	2695.7

Online Table 2: Mean neck inflow rate through the aneurysm ostia for ten equidistant time steps during the cardiac cycle with absolute and relative standard deviation (SD).

Case	Neck inflow rate at different time points during the cardiac cycle \pm standard deviation in ml/s										Rel. cycle-aver. SD
	0.08 s	0.16 s	0.24 s	0.32 s	0.4 s	0.48 s	0.56 s	0.64 s	0.72 s	0.8 s	
1	0.48 \pm 0.023 (4.74%)	0.41 \pm 0.023 (5.72%)	0.39 \pm 0.025 (6.46%)	0.34 \pm 0.023 (6.65%)	0.39 \pm 0.03 (7.76%)	0.67 \pm 0.034 (5%)	0.79 \pm 0.027 (3.43%)	0.67 \pm 0.025 (3.65%)	0.53 \pm 0.021 (3.95%)	0.49 \pm 0.023 (4.3%)	5.17%
2	0.23 \pm 0.041 (18.19%)	0.19 \pm 0.036 (18.96%)	0.18 \pm 0.035 (19.38%)	0.15 \pm 0.03 (20.08%)	0.19 \pm 0.038 (20.66%)	0.33 \pm 0.06 (17.81%)	0.41 \pm 0.071 (17.21%)	0.34 \pm 0.06 (17.29%)	0.26 \pm 0.05 (17.88%)	0.24 \pm 0.043 (18.11%)	18.56%
3	0.42 \pm 0.034 (8%)	0.36 \pm 0.032 (9.03%)	0.33 \pm 0.032 (9.61%)	0.29 \pm 0.029 (10.1%)	0.33 \pm 0.032 (9.8%)	0.58 \pm 0.044 (7.65%)	0.74 \pm 0.05 (6.75%)	0.64 \pm 0.045 (7.05%)	0.49 \pm 0.036 (7.43%)	0.44 \pm 0.034 (7.69%)	8.31%
4	0.28 \pm 0.036 (12.85%)	0.24 \pm 0.029 (12.51%)	0.22 \pm 0.026 (12.12%)	0.19 \pm 0.023 (12.09%)	0.19 \pm 0.022 (11.6%)	0.35 \pm 0.038 (11.02%)	0.47 \pm 0.057 (12.34%)	0.42 \pm 0.056 (13.37%)	0.32 \pm 0.043 (13.15%)	0.3 \pm 0.039 (13.02%)	12.41%
5	0.41 \pm 0.049 (12.08%)	0.35 \pm 0.042 (12.05%)	0.32 \pm 0.039 (12.03%)	0.28 \pm 0.034 (12.06%)	0.31 \pm 0.037 (11.87%)	0.55 \pm 0.065 (11.81%)	0.7 \pm 0.087 (12.39%)	0.61 \pm 0.076 (12.45%)	0.47 \pm 0.057 (12.18%)	0.43 \pm 0.052 (12.11%)	12.1%
6	0.32 \pm 0.017 (5.28%)	0.26 \pm 0.014 (5.28%)	0.24 \pm 0.013 (5.31%)	0.2 \pm 0.011 (5.43%)	0.21 \pm 0.011 (5.21%)	0.42 \pm 0.023 (5.33%)	0.6 \pm 0.03 (5.02%)	0.52 \pm 0.028 (5.48%)	0.38 \pm 0.02 (5.28%)	0.34 \pm 0.018 (5.24%)	5.29%
7	0.12 \pm 0.013 (11.06%)	0.09 \pm 0.01 (10.65%)	0.08 \pm 0.009 (10.5%)	0.07 \pm 0.008 (10.66%)	0.07 \pm 0.008 (10.47%)	0.16 \pm 0.016 (9.78%)	0.23 \pm 0.031 (13.14%)	0.21 \pm 0.029 (14.04%)	0.14 \pm 0.017 (11.8%)	0.13 \pm 0.014 (11.29%)	11.34%
8	0.86 \pm 0.132 (15.42%)	0.73 \pm 0.112 (15.25%)	0.69 \pm 0.102 (14.9%)	0.61 \pm 0.089 (14.55%)	0.67 \pm 0.103 (15.41%)	1.15 \pm 0.19 (16.37%)	1.45 \pm 0.234 (16.12%)	1.26 \pm 0.2 (15.94%)	0.98 \pm 0.155 (15.77%)	0.9 \pm 0.14 (15.52%)	15.53%

Online Table 3: Mean and maximum values of the time-averaged wall shear stress (AWSS) for each of the 48 investigated aneurysms. Notice that the relative standard deviation (SD) is on average 17.83% for the mean AWSS and 9.53% for the maximum AWSS, respectively.

Case	AWSS [Pa] (aneurysm spatial mean/spatial max)						Relative SD
	EE_sharp	EE_normal	EE_smooth	HU_sharp	HU_normal	HU_smooth	
1	3.55/10.22	4.02/12.19	4.12/12.6	3.53/11.04	4.03/11.43	3.96/12.35	6.71%/7.83%
2	0.91/11.04	1.18/15.29	1.38/18.73	0.67/11.7	0.72/11.66	0.54/10.26	35.96%/24.79%
3	1.76/14.8	2.02/15.21	2.19/16.16	1.91/15.19	2.43/16.66	2.93/16.81	19.18%/5.37%
4	1.18/6.26	1.36/6.21	1.43/6.4	1.45/6.72	1.64/6.43	1.8/6.35	14.7%/2.81%
5	2.58/7.55	2.68/7.71	2.95/8.53	2.42/6.49	2.87/7.42	3.02/8.29	8.44%/9.4%
6	3.16/13.98	3.31/15.5	3.05/14.93	2.92/14.24	3.47/13.28	3.61/13.95	8%/5.51%
7	0.99/5.44	1.29/6.54	1.47/6.69	1.08/6.74	1.46/6.47	1.49/6.45	16.72%/7.5%
8	0.71/8.91	0.85/8.78	0.94/9.23	0.71/8.05	1.14/10.06	1.56/11.55	32.93%/13.01%