

Table S1 Impact of boundary conditions on hemodynamics

Boundary condition type	Variable	Contralateral ICA percentage stenosis		
		90%	95%	Occlusion
Primary boundary conditions	R CBF (mL/s)	4.08	4.21	4.57
	PSV RICA (cm/s)	201.0	232.4	312.1
	EDV RICA (cm/s)	102.0	118.3	151.2
	PG RICA	0.993	0.992	0.989
	WSS RICA (Pa)	1.70	1.96	5.69
Alternate boundary conditions	R CBF (mL/s)	4.38	4.30	4.53
	PSV RICA (cm/s)	190.0	226.0	285.7
	EDV RICA (cm/s)	101.1	123.5	155.4
	PG RICA	0.994	0.992	0.989
	WSS RICA (Pa)	1.61	1.99	5.287

EDV, end diastolic velocity; PG, pressure gradient (average pressure distal ICA/average pressure proximal ICA); PSV, peak systolic velocity; R CBF, right hemispheric cerebral blood flow; RICA, right internal carotid artery; WSS, wall shear stress.