On-line Table 1: LCC scores[13] for right cortical regions of the MCA (M1, M2, M3, M4, M5, M6), ACA (A1, A2), PCA (P1, P2), basal ganglia, white matter (C1, C2, C3), and insula determined from the DSA of each subject in each CVD group (SVDd, SVDp, MVD, MMD)

	Right														
CVD Group	M1	M2	M3	M4	M5	M6	A1	A2	P1	P2	BG	C1	C2	C3	IN
SVDd	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDd	2	1	0	0	0	0	3	3	3	3	3	1	1	1	1
SVDd	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDd	3	3	1	3	3	1	3	3	3	3	2	2	2	2	2
SVDd	3	3	2	3	3	2	3	3	3	3	3	3	2	2	3
SVDd	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDd	2	2	2	2	2	2	3	3	3	3	2	1	1	1	2
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	2	2	2	2	2	2	3	3	3	3	3	1	1	1	2
SVDp	2	2	2	2	2	2	3	3	3	3	2	1	1	1	2
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	1	1	0	1	0	1	3	3	3	3	3	1	0	0	1
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3
MVD	3	2	2	3	3	3	3	2	3	3	3	3	3	3	3
MVD	1	1	1	0	0	0	3	3	3	3	1	0	0	0	0
MVD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	2	2	2	1	1	1	3	3	3	3	3	1	1	1	2
MVD	3	3	3	3	3	3	3	2	3	3	3	3	3	2	3
MVD	3	3	3	3	3	3	3	3	3	3	1	1	1	1	3
MMD	2	2	2	2	2	2	3	3	3	3	3	1	1	1	3
MMD	2	2	2	2	2	2	3	2	3	3	3	3	3	3	3
MMD	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1
MMD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MMD	2	2	2	1	2	1	1	2	3	3	3	1	1	1	2
MMD	2	2	2	2	2	2	2	2	3	3	3	3	3	3	2
MMD	2	2	2	3	3	2	3	2	3	3	3	2	1	1	3
MMD	3	3	3	2	2	2	1	2	3	3	3	1	1	1	2
MMD	3	3	3	3	3	3	3	3	3	3	3	3	2	1	3
MMD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MMD	2	2	1	1	1	1	2	2	3	3	1	1	1	1	2
MMD	1	1	1	3	3	2	2	2	3	3	2	3	3	3	3
MMD	1	1	2	1	1	1	2	2	3	3	2	2	1	1	1
MMD	2	2	2	2	1	1	2	2	3	3	2	2	2	1	2

Note:—BG indicates basal ganglia; IN, insula.

On-line Table 2: LCC scores[13] for left cortical regions of the MCA (M1, M2, M3, M4, M5, M6), ACA (A1, A2), PCA (P1, P2), basal ganglia, white matter (C1, C2, C3), and insula determined from the DSA of each subject in each CVD group (SVDd, SVDp, MVD, MMD)

CVD Group	Left														
	M1	M2	M3	M4	M5	M6	A1	A2	P1	P2	BG	C1	C2	C3	IN
SVDd	2	2	2	2	2	2	3	3	3	3	3	2	2	2	2
SVDd	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDd	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDd	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDd	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDd	3	3	3	3	3	3	3	3	3	3	2	2	2	2	3
SVDd	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	2	2	2	3	3	3	3	3	3	3	3	2	2	2	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	2	2	3
SVDp	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	2	2	2	2	2	2	3	3	3	3	3	2	2	2	2
MVD	2	2	2	2	1	2	3	3	3	3	3	3	2	2	2
MVD	1	2	2	2	2	2	3	3	3	3	2	1	1	1	2
MVD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MVD	3	2	2	3	3	2	3	2	3	3	3	3	2	1	3
MVD	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3
MMD	2	2	2	2	2	2	3	3	3	3	3	2	2	2	3
MMD	3	3	3	3	3	3	0	2	3	3	3	3	3	3	3
MMD	1	1	1	1	1	1	2	2	3	3	1	1	1	1	2
MMD	1	1	2	1	2	2	3	2	3	3	3	1	1	1	1
MMD	2	2	2	1	1	1	1	2	3	3	3	1	1	1	2
MMD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MMD	2	2	2	1	2	2	1	2	3	3	1	2	2	2	2
MMD	2	2	2	2	2	2	1	2	3	3	3	1	1	1	2
MMD	2	2	1	2	2	2	3	2	3	3	3	1	1	1	2
MMD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MMD	2	2	2	1	1	1	3	3	3	3	1	0	1	1	2
MMD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MMD	1	1	1	2	1	1	2	2	3	3	3	3	2	1	1
MMD	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2

Note:—BG indicates basal ganglia; IN, insula.

On-line Table 3: MTT values (in seconds) for the provocative DSC perfusion MRI studies for disease categories of SVDd and SVDp across each of 8 vascular territories (left and right ACA, PCA, sMCA, and iMCA)[a]

		Left				Right			
Stenosis of MCA	Pre/Post	ACA	PCA	sMCA	iMCA	ACA	PCA	sMCA	iMCA
SVDd: MTT (s)									
Right	Pre	9.2	8.6	8.5	9.1	8.4	8.9	9.3	8.5
Right	Pre	6.4	6.4	6.5	6.4	6.9	6.5	7	7.5
Right	Pre	6.2	5.7	5.4	5.3	5.7	6	7	8.3
Right	Pre	6.9	6.1	6	6.1	6.8	6.2	6.1	6.5
Left	Pre	5.9	6.1	6.8	6.8	6.5	6.2	6.6	6.4
Left	Pre	7.5	7.1	8	8.6	7.7	7.3	7.2	7.3
Left	Pre	9.9	9.8	9.9	9.8	11.1	9.9	9.5	9.2
Right	Post	8.9	9	8.9	9.1	8.9	8.9	10.3	9.4
Right	Post	5.6	6.1	5.9	5.9	6	6.2	6.4	7.6
Right	Post	6.1	6.3	6.2	5.8	6	6.1	8.3	8.6
Right	Post	6.3	6.4	6.3	6.3	7.2	6.4	6.3	7
Left	Post	5	5.2	5.9	6.3	5.4	5.3	5.5	5.4
Left	Post	7.4	6.9	8.2	8.7	7.2	7.2	8.1	7.5
Left	Post	10.9	11.3	11.5	11.2	12.6	11.1	11	10.8
SVDp: MTT (s)									
Right	Pre	11.7	10.9	12.1	10.9	17.8	10.8	17.9	12.6
Right	Pre	10	8.2	8.1	8.7	10	8.2	7.7	9
Right	Pre	7.9	8.2	7.4	7.5	8.7	8	9.1	9
Right	Pre	7.7	7.5	7.5	7.5	7.7	7.5	7.6	8.1
Left	Pre	7.6	8.1	8.5	8.4	7.8	7.8	8.5	7.9
Left	Pre	12.7	8.2	12.6	9.9	15.3	11.5	17.6	10
Left	Pre	5.6	5.8	5.4	5.5	5.8	5.9	5.4	5.5
Left	Pre	9.1	9.1	9.6	10	10.1	8.9	8.1	9.1
Left	Pre	7.4	7.5	8	7.8	7.2	7.7	7.8	7.2
Right	Post	10.6	10.4	11	10.1	15.8	10.4	18.6	11.4
Right	Post	8	7.5	7.4	7.8	7.9	7.8	7.9	8.4
Right	Post	7.3	7.3	7.3	7.5	7.2	7.4	7.4	7.3
Right	Post	8.1	9	8.3	7.9	9.5	8.5	9.4	10.5
Left	Post	9.3	9.8	10.2	9.8	9.2	9.2	10.4	9.6
Left	Post	7.6	7.4	7.3	9	7.1	7.8	7.5	7.9
Left	Post	5.8	6.2	6.4	6.3	5.9	5.9	6.2	5.7
Left	Post	9.1	8.9	9.5	11	9.2	9	8.2	8.8
Left	Post	6.3	6.3	6.8	6.8	6.3	6.7	6.8	6.2

Note:—iMCA indicates inferior division of the MCA.

[a] Pre/post are values for MTT before and after vasodilation with intravenous acetazolamide.

On-line Table 4: MTT values (in seconds) for the provocative DSC perfusion MRI studies for disease categories of MVD and MMD across each of 8 vascular territories (left and right ACA, PCA, sMCA, and iMCA)[a]

	Left				Right			
Vasodilation Status	ACA	PCA	sMCA	iMCA	ACA	PCA	sMCA	iMCA
MVD: MTT (s)								
Pre	8.7	9.2	9.5	11.3	8.7	9.3	8.6	9.3
Pre	6.9	7.2	7.2	7.7	6.8	6.9	6.7	7.3
Pre	6.9	6.5	6.8	6.4	6.1	6.3	6.4	6.7
Pre	6.9	6.6	6.2	6.6	6.8	6.9	6.7	6.9
Pre	8	8	7.8	7.3	8.2	8.3	7.9	8
Pre	8.9	8.8	8.4	8.2	13.1	10.3	15.9	14.6
Pre	7.2	5.9	6.4	6.1	6.8	6.6	6.5	6.7
Pre	5	3.9	4.3	5	4.7	6.8	6.5	6.5
Pre	10.6	9.2	11.5	10.6	9.8	9.8	9.7	9.3
Pre	6.5	7.5	6.9	7.4	7	7.1	7.4	7.6
Post	11.9	12.2	12.6	16.5	12.3	11.4	17	14.5
Post	6.1	6.5	6.8	7.1	5.9	5.9	6.4	6.6
Post	7.5	7.1	7.8	6.8	6.3	6.6	6.3	6.5
Post	6	5.8	6	5.8	6	6.1	6.3	5.9
Post	5.5	5.5	5.3	4.7	8.4	5.7	9.9	9.4
Post	9	8.4	7.7	7.7	11.9	8	19.3	18.8
Post	8.2	8.3	8.3	7.9	8.1	8.6	8.3	8.3
Post	4.8	5.6	5.3	6	6.6	11.1	8.5	9.5
Post	9.6	8.6	13	11.5	9.6	8.7	9.6	8.5
Post	7.4	9.6	7.5	7.6	7.6	7.8	8.5	8.5
MMD: MTT (s)								
Pre	5.3	5.4	5.7	6	5.1	5.6	6.1	6.2
Pre	4.3	4.7	4.6	4.3	4.9	3.8	5.7	4.8
Pre	11.3	10.1	12.4	13.2	12	11.7	14.2	13.2
Pre	6.1	5.4	6.4	6.1	6.4	5.5	7.3	6
Pre	5.2	4.3	6.3	6.1	6.2	5	13.3	6
Pre	6.3	6.3	7.7	7.5	6	6.3	6.4	6.7
Pre	10.1	9.4	12.3	9.5	11.4	9.1	14.5	10.7
Pre	5.5	5.8	6.2	6.2	5.9	5.3	5.2	5.3
Pre	5.4	5.6	5.3	5.4	5.3	5.1	5.2	5.6
Pre	9.8	9.7	11.1	11.3	10.3	10.1	11	11.1
Pre	6.9	5.8	8.3	7.5	7	6.1	6.6	6.8
Pre	7.1	6.1	8.5	6.5	6.4	5.9	7	6.9
Pre	8.7	6.5	7.1	6.7	8.9	6.8	9.6	8.5
Pre	8.5	7.8	9.8	8.8	10.4	7.6	9.1	9.3
Post	4.3	4.6	5.6	5.8	4.6	4.9	5.9	6
Post	4.3	4.4	5	4.4	4.6	4.6	5.5	4.8
Post	13.1	10.5	13.5	12.5	13.4	13.1	14.8	14.6
Post	6.3	5.7	7.4	7	6.9	5.5	8.1	6.5
Post	5	4	6.8	6.6	6.7	4.7	16.4	5.5
Post	6.3	5.6	8.3	8	5.9	5.6	6.3	6.1
Post	10.6	7.9	13.4	9.7	11	8	16.4	9.7
Post	5.3	4.6	6.5	5.8	5	4.5	4.7	4.4
Post	6.4	4.9	6.5	6.1	6	5.1	5.6	6.1
Post	10.7	9.5	13	11.9	11	9.9	13.9	12.8
Post	6.3	5.5	8.3	7.3	6.3	5.4	6.3	6.3
Post	8.1	6	11.2	7.7	7	5.6	8	8.6
Post	6.3	5.5	8.3	7.3	6.3	5.4	6.3	6.3
Post	14.3	6.1	16.9	15	15.2	8.1	17.2	15

Note:—iMCA indicates inferior division of the MCA.

[a] Pre/post are values for MTT before and after vasodilation with intravenous acetazolamide.