



Figure S1 Patient selection flowchart.

Table S1 Demographic, angiographic, hemodynamic, and clinical data of 27 patients with pediatric MMD

Patient number	Age (years)/sex	FU (months)	Pre-OP PCA stenosis		OP side					Non-OP side						
			OP side	Non-OP side	Suzuki stage	Moyamoya vessel grade		rCBF (mL/100 g/min)		Suzuki stage	Moyamoya vessel grade		rCBF (mL/100 g/min)		Stroke or TIA	
					Pre-OP	Pre-OP	FU	Pre-OP	FU	Pre-OP	FU	Pre-OP	FU	Pre-OP	FU	FU
1	8/F	3	-	-	1	1	1	46.9	60.2	4	4	2	2	44.5	47.7	+
2	5/F	3.5	-	-	4	3	1	40.8	53.1	4	4	2	2	51.7	49.6	+
3	8/F	6.5	+	-	4	3	2	41.5	57.5	4	4	3	3	46.9	49.2	-
4	12/M	5	-	-	3	3	3	33.9	50.5	1	2	1	2	47.1	42.9	+
5	13/M	6	+	+	4	3	1	33.6	47.7	4	4	3	3	38.4	37.2	-
6	14/F	4	+	-	4	3	1	31.5	43.7	3	3	1	1	36.4	34.9	-
7	7/M	5	-	-	3	3	1	38.5	57.2	3	3	1	1	54.9	55.9	-
8	12/M	4	+	-	4	0	0	42.5	63.1	4	4	1	1	50.6	48.6	+
9	8/M	5	-	-	4	3	1	36.2	49.3	1	2	0	2	43.5	39.7	+
10	6/M	5	-	-	4	3	1	48.8	62.9	2	4	2	3	66.1	59.3	+
11	8/M	4	-	-	4	1	0	43.1	56.7	3	3	1	1	57.5	55.9	+
12	11/M	4	-	-	4	2	1	50.6	71.5	3	3	2	2	40.2	38.4	+
13	14/F	4	+	-	4	3	1	56.9	91.8	4	4	1	1	87.9	90.7	+
14	5/F	3	-	-	3	2	1	37.9	49.6	2	2	2	3	48.6	39.4	+
15	5/M	4	-	-	3	3	1	36.7	48.9	3	3	3	3	48.8	49.3	-
16	5/F	4	-	-	3	2	2	40.1	55.2	3	4	2	3	53.6	68.9	+
17	8/M	3.5	-	-	3	3	1	41.9	61.7	4	4	3	3	37.9	54.7	+
18	12/M	7.5	-	-	3	3	1	37.9	74.1	3	4	2	3	70.3	67.7	-
19	5/F	4	-	-	3	2	1	45.7	64.0	1	1	0	0	42.8	40.6	-
20	11/F	3.5	-	-	3	3	1	39.6	66.5	2	2	1	2	68.5	83.3	-
21	6/F	4.5	-	-	2	1	1	39.4	59.7	2	2	2	3	50.2	45.1	-
22	12/F	5	-	+	4	3	2	40.3	48.6	3	3	2	3	43.5	42.9	-
23	9/F	4	-	-	3	3	1	43.5	66.0	3	3	2	3	47.0	61.1	-
24	11/F	6.5	-	-	4	1	1	63.7	70.3	3	3	2	2	73.3	68.3	+
25	12/M	4.5	-	-	3	2	1	47.6	62.1	2	2	1	1	59.3	60.9	-
26	7/F	6	-	-	2	2	1	68.0	66.7	1	1	0	1	77.3	65.0	+
27	8/F	7.5	+	+	4	1	1	45.5	60.6	4	4	2	1	57.0	55.0	+

MMD, moyamoya disease; FU, follow-up; pre-OP, preoperative; PCA, posterior cerebral artery; OP, operated; rCBF, regional cerebral blood flow; TIA, transient ischemic attack; F, female; M, male; +, yes; -, no.

Table S2 Univariate analysis for non-OP side progression with the angiographic data of the OP side

Characteristics	Non-OP side progression		P value
	Yes (n=11)	No (n=16)	
Pre-OP Suzuki stage			
OP side			0.074 [†]
I	0 (0.0)	1 (6.3)	
II	2 (18.2)	0 (0.0)	
III	6 (54.3)	5 (31.3)	
IV	3 (27.3)	10 (62.5)	
Pre-OP moyamoya vessel grade (points)			
OP side			0.734 [†]
0	0 (0.0)	1 (6.3)	
1	1 (9.1)	4 (25.0)	
2	3 (27.3)	3 (18.8)	
3	7 (63.6)	8 (50.0)	

[†], analyzed with Fisher exact test. OP, operation; pre-OP, preoperative.