

## SUPPLEMENTARY TABLES

**Supplementary Table 1. The detailed characteristics of the cases with likely pathogenic variants of FH, who were in the low-LDL group.**

<b>Pathological variant carrier</b>	<b>G</b>	<b>H</b>	<b>I</b>
<b>Gender</b>	M	M	M
<b>BMI</b>	19	21.4	24.7
<b>Age of first stroke/TIA</b>	56	51	60
<b>Age of first CAD</b>	56	51	60
<b>Age of this index stroke</b>	56	55	60
<b>Gene</b>	LDLR	LDLR	LDLR
<b>Position</b>	chr19:11227550	chr19:11227550	chr19:11213441
<b>rs number</b>	rs777188764	rs777188764	rs750474121
<b>Mutation type</b>	missense	missense	missense
<b>LDL level at the index stroke</b>	103	45	122
<b>Statin use before index stroke</b>	No	Yes	No
<b>TOAST classification</b>	cardiogenic	cardiogenic	cardiogenic
<b>IMT (mm)</b>	0.52	0.82	0.75
<b>IMT limits based on age</b>	0.72	0.8	0.8
<b>NIHSS (admission→ discharge)</b>	6→0	10→10	7→6
<b>mRS (initial→ 1 year)</b>	2→1	4→3	4→4
<b>DM</b>	0	1	0
<b>Hypertension</b>	0	1	0
<b>Tendon xanthomas</b>	0	0	0
<b>Eyelid xanthelasma</b>	0	0	0
<b>Vascular dementia</b>	No	No	No

BMI, body mass index; TIA, transient ischemic attack; CAD, coronary artery disease; IMT, intima-media thickness; NIHSS, NIH Stroke Scale; mRS, modified Rankin scale.

**Supplementary Table 2. The detailed characteristics of the FH carriers, who were all in the high-LDL group.**

<b>Pathological variant carrier</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
<b>Gender</b>	M	M	M	M	M	M
<b>BMI</b>	27	30.9	24.2	22.6	32.8	23.4
<b>Age of first stroke/TIA</b>	39	52	61	72	54	77
<b>Age of first CAD</b>	not occur	not occur	not occur	75	45	70
<b>Age of this index stroke</b>	39	52	61	73	54	77
<b>Gene</b>	LDLR	APOB	APOB	LDLR	LDLR	APOB
<b>Position</b>	chr19:11213417	chr2:21229160	chr2:21229161	chr19:11230789	chr19:11221373	chr2:21238117, chr19:11230789
<b>rs number</b>	rs749038326	rs5742904	rs144467873	rs555292896	rs761954844	rs1307980669, rs555292896
<b>Mutation type</b>	missense	missense	missense	missense	missense	missense
<b>LDL level at the index stroke</b>	176	154	166	140	156	188
<b>Statin use before index stroke</b>	No	No	No	Atorvastatin(20mg)	Atorvastatin (20mg)	Atorvastatin (10mg)
<b>TOAST classification</b>	large artery atherosclerosis	large artery atherosclerosis	TIA	large artery atherosclerosis	TIA	large artery atherosclerosis
<b>IMT (mm)</b>	0.86	0.99	0.87	1.15	0.86	1.15
<b>IMT limits based on age</b>	0.72	0.8	0.8	0.8	0.8	0.8
<b>NIHSS (admission → discharge)</b>	6→4	5→3	1→0	2→1	0→0	6→5
<b>mRS (initial → 1 year)</b>	4→1	4→0	0→0	3→2	0→0	5→5
<b>DM</b>	0	1	0	1	0	1
<b>Hypertension</b>	1	1	1	0	1	1
<b>Tendon xanthomas</b>	0	0	0	0	0	0
<b>Eyelid xanthelasma</b>	0	0	0	0	0	0
<b>Vascular dementia</b>	No	No	No	No	No	Yes

BMI, body mass index; TIA, transient ischemic attack; CAD, coronary artery disease; IMT, intima-media thickness; NIHSS, NIH Stroke Scale; mRS, modified Rankin scale.