SUPPLEMENTAL MATERIAL

Supplementary Table 1. Overview of classification systems and definitions used for this study.

TOAST classification		
Large vessel atherosclerosis		
1a. Atherothrombotic	Atherothrombotic stroke Patients with (1) (in NASCET criteria), or (2) an ipsilateral sto	an ipsilateral internal carotid stenosis >50% enosis >50% of another intra/extracranial
	artery, or (3) mobile thrombus in the aorti	c arch
1b. Likely atherothrombotic	Likely atherothrombotic stroke Patients wi as defined in 1a with (1) an ipsilateral inter ipsilateral stenosis <50% of another intra/6	
	plaques >4 mm in thickness without a mob myocardial infarction or coronary revascul	oile component, or (4) a history of
	peripheral arterial disease, or (6) at least to arterial hypertension (treated or known bl or hypertensive retinopathy), diabetes me	ood pressure before stroke >140/90 mm Hg
	glucose >7 mmol/l), current smoking (or sr high cholesterol (treated or known low-de mg/dl or 4,1 mmol/l)	moking stopped within the last 6 months),
Small vessel disease	Patients with a small deep infarct measuring	
	corresponding to symptoms, in a patient p	resenting a clinical syndrome compatible
Cardio-embolic	with a small deep infarct Cardiac sources are divided into high-risk a evidence of their relative propensities for	
	High risk sources	Medium risk sources
	Mechanical prosthetic valve	Mitral valve prolapse
	Mitral stenosis with atrial fibrillation	Mitral annulus calcification
	Atrial fibrillation	Mitral stenosis without atrial fibrillation
	Left atrial/atrial appendage thrombus	Left atrial turbulence (smoke)
	Sick sinus syndrome	Atrial septal aneurysm
	Recent myocardial infarction (< 4 weeks)	Patent foramen ovale
	Left ventricular thrombus	Atrial flutter
	Dilated cardiomyopathy	Lone atrial fibrillation
	Akinetic left ventricular segment	Bioprosthetic cardiac valve
	Atrial myxoma	Nonbacterial thrombotic endocarditis
	Infective endocarditis	Congestive heart failure
		Hypokinetic left ventricular segment
		Myocardial infarction (>4 weeks, < 6 months)
Other determined cause	Causes as shown in Table 3	montals
Multiple causes	Patients with two or more etiologies defin-	ed in 1–4
Undetermined etiology /	Patients who did not meet criteria for the	groups as defined above, maybe with
cryptogenic	incidental findings or with undetermined e	etiology, but incomplete evaluation.
ASCOD classification		
A: Causality grades for atherot	hrombosis	
A1 (potentially causal)	Atherothrombotic stroke defined as:	
		veen 50 and 99% in an intra- or extracranial
	artery supplying the ischemic field; or	
	• • •	% in an intra- or extracranial artery with an
	endoluminal thrombus supplying the	
	ischemic field; or (3) mobile thrombus in the partic arch; or	
	(3) mobile thrombus in the aortic arch; or(4) ipsilateral arterial occlusion in an intra-	or extracranial artery with evidence of
	underlying atherosclerotic plaque	or extracramarantery with evidence of
	supplying the ischemic field	
A2 (causal link is uncertain)	(1) ipsilateral atherosclerotic stenosis 30–5	50% in an intra- or extracranial artery
·	supplying the ischemic field; or	·
	(2) aortic plaque ≥4 mm without mobile le	sion

A3 (causal link is unlikely, but	(1) plaque (stenosis <30%) in an intra- or extracranial artery, ipsilateral to the infarct
disease is present)	area;
	(2) aortic plaque <4 mm without mobile thrombus;
	(3) stenosis (any degree) or occlusion in a cerebral artery not supplying the infarct
	area (e.g. contralateral side or opposite
	circulation); (4) history of myocardial infarction, coronary royaccularization or peripheral arterial.
	(4) history of myocardial infarction, coronary revascularization or peripheral arterial
	disease; (5) ipsi- or bilateral atherosclerotic stenosis 50–99% with bihemispheric MR-DWI
	lesion
A0 (atherosclerosis not	Ruling out atherosclerosis:
detected)	(1) extracranial arterial stenosis: one or several of the following diagnostic tests are
detected	performed and are negative: US-Duplex,
	CTA, MRA, XRA, or autopsy;
	(2) intracranial arterial stenosis: one or several of the following diagnostic tests are
	performed and are negative: US-TCD,
	MRA, CTA, XRA, or autopsy;
	(3) aortic arch atheroma: TEE with specific assessment of the aortic arch (when the
	probe is pulled back at the end of the
	cardiac examination, turn the probe counter clockwise and take time to watch the
	aortic arch) or specific aortic arch
	assessment with CTA
A9 (incomplete workup)	US-Duplex, US-TCD or CTA, or MRA, or XRA or autopsy not performed. [A minimum
	workup is extra- and intracranial
	assessment of cerebral arteries – maximum workup also includes transesophageal
	assessment of the aortic arch (or a default
	CTA of the aortic arch)]
S: Causality grades for small-ve	ssel disease
S1 (potentially causal)	Combination of:
	(1) lacunar infarction: small deep infarct <15 mm (in perforator branch territory) on
	MRI-DWI (or a default CT) in an area
	corresponding to the symptoms and at least one of the three following criteria:
	(2) one or several small deep older infarct(s) of lacunar type in other territories,
	and/or
	(3) severe (confluent – Fazekas III) leukoaraiosis, or microbleeds, or severe dilatation
	of perivascular spaces ('état criblé');
	(4) repeated, recent (<1 month), TIAs attributable to the same territory as the index infarct
C2 (equal link is uncortain)	
S2 (causal link is uncertain)	(1) only one, recent, lacunar infarction and no other abnormality on MRI (or CT) or
	(2) clinical syndrome suggestive of a deep branch artery stroke, without ischemic lesion in the appropriate area seen on MRI
	or CT
	(main clinical syndrome suggesting a deep branch artery – lacunar – stroke: pure
	hemiparesis, pure hemisensory loss,
	ataxic hemiparesis, dysarthria-clumsy hand syndrome, unilateral sensorimotor deficit
	others: hemichorea, hemiballism,
	pure dysarthria, etc.)
S3 (causal link is unlikely, but	Severe (confluent – Fazekas III) leukoaraiosis visible on MRI and/or CT scan, and/or
•	microbleeds visible on T2*-weighted
disease is present)	microbleeds visible on T2*-weighted MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI).
•	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI),
•	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep
disease is present)	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type
disease is present) SO (small vessel disease not	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type Ruling out small-vessel disease stroke: negative MRI (T2, FLAIR, GRE, DWI) and no
disease is present) SO (small vessel disease not	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type Ruling out small-vessel disease stroke: negative MRI (T2, FLAIR, GRE, DWI) and no appropriate clinical syndrome suggestive
disease is present) SO (small vessel disease not detected)	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type Ruling out small-vessel disease stroke: negative MRI (T2, FLAIR, GRE, DWI) and no appropriate clinical syndrome suggestive of a deep branch artery stroke
SO (small vessel disease not detected) SO (incomplete workup)	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type Ruling out small-vessel disease stroke: negative MRI (T2, FLAIR, GRE, DWI) and no appropriate clinical syndrome suggestive of a deep branch artery stroke MRI (or CT) not performed
disease is present) SO (small vessel disease not detected) S9 (incomplete workup) C: Causality grades for cardiac p	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type Ruling out small-vessel disease stroke: negative MRI (T2, FLAIR, GRE, DWI) and no appropriate clinical syndrome suggestive of a deep branch artery stroke MRI (or CT) not performed Dathology
disease is present) SO (small vessel disease not detected) S9 (incomplete workup) C: Causality grades for cardiac p	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type Ruling out small-vessel disease stroke: negative MRI (T2, FLAIR, GRE, DWI) and no appropriate clinical syndrome suggestive of a deep branch artery stroke MRI (or CT) not performed
disease is present) SO (small vessel disease not detected)	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type Ruling out small-vessel disease stroke: negative MRI (T2, FLAIR, GRE, DWI) and no appropriate clinical syndrome suggestive of a deep branch artery stroke MRI (or CT) not performed Dathology Cardiogenic stroke defined as acute, or recent and older bihemispheric or supra- and infratentorial territorial or cortical
SO (small vessel disease not detected) SO (incomplete workup) C: Causality grades for cardiac p	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type Ruling out small-vessel disease stroke: negative MRI (T2, FLAIR, GRE, DWI) and no appropriate clinical syndrome suggestive of a deep branch artery stroke MRI (or CT) not performed Dathology Cardiogenic stroke defined as acute, or recent and older bihemispheric or supra- and infratentorial territorial or cortical ischemic lesions and signs of systemic embolism with detection of at least one of the
SO (small vessel disease not detected) SO (incomplete workup) C: Causality grades for cardiac p	MRI, and/or severe dilatation of perivascular spaces (visible on T2-weighted MRI), and/or one or several old, small deep infarcts of lacunar type Ruling out small-vessel disease stroke: negative MRI (T2, FLAIR, GRE, DWI) and no appropriate clinical syndrome suggestive of a deep branch artery stroke MRI (or CT) not performed Dathology Cardiogenic stroke defined as acute, or recent and older bihemispheric or supra- and infratentorial territorial or cortical

	(3) myocardial infarction within 4 weeks preceding the cerebral infarction;
	(4) mural thrombus in the left cavities;
	(5) aneurysm of the left ventricle;
	(6) history or presence of documented atrial fibrillation – whether paroxysmal (>60 s)
	persistent or permanent – or flutter, with or without left atrial thrombus or spontaneous echo;
	(7) atrial disease (tachycardia-bradycardia syndrome);
	(8) dilated or hypertrophic cardiomyopathies;
	(9) left ventricle ejection fraction <35%;
	(10) endocarditis;
	(11) intracardiac mass;
	(12) PFO <i>and</i> thrombus in situ;
	(13) PFO and concomitant pulmonary embolism or proximal DVT preceding the index
	cerebral infarction;
C2 (causal link is	Regardless of stroke pattern:
uncertain)	(1) PFO + atrial septal aneurysm;
	(2) PFO and pulmonary embolism or proximal DTV concomitant but NOT preceding
	the index cerebral infarction;
	(3) intracardiac spontaneous echo-contrast;
	(4) apical akinesia of the left ventricle and decreased ejection fraction (but >35%);
	(5) history of myocardial infarction or palpitation and multiple brain infarction,
	repeated either bilateral or in two different
	arterial territories (e.g. both anterior and posterior circulation);
	(6) no direct cardiac source identified, but multiple brain infarction, repeated either
	bilateral or in two different arterial
	territories (e.g. both anterior and posterior circulation) and/or evidence of systemic
	emboli: renal or splenic or mesenteric
	infarction (on CT, MRI or autopsy) or embolism in peripheral artery supplying arm or
C3 (causal link is	leg One of the following abnormalities present in isolation: PFO, ASA, strands, mitral
unlikely, but the	annulus calcification, calcification aortic
disease is present)	valve, nonapical akinesia of the left ventricle, transient atrial fibrillation <60 s, atrial
disease is presently	hyperexcitability
CO (cardiac pathology	Ruling out a cardiac source of embolism: minimum is negative ECG and examination
not detected or	by a cardiologist; maximum is negative
not suspected)	ECG/telemetry/24-hour Holter ECG/long-term ECG recording (implantable device,
	transtelephonic ECG, loop recorder) and
	negative TEE for atrium, valves and septal abnormalities, negative TTE for PFO and
	assessment of left ventricle, negative
	cardiac CT/MRI, negative abdominal CT/MRI (search for old or simultaneous
	subdiaphragmatic visceral infarction)
C9 (incomplete	Minimum is ECG and examination by a trained cardiologist in the absence of cardiac
workup)	imaging
O: Causality grades for othe	
O1 (potentially causal)	(1) dolichoectasia with complicated aneurysm;
	(2) polycythemia vera or thrombocythemia >800,000/mm 3;
	(3) systemic lupus;
	(4) disseminated intravascular coagulation;(5) antiphospholipid antibody syndrome (including >100 GPL units or lupus
	anticoagulant);
	(6) Fabry's disease;
	(7) coexisting meningitis;
	(8) sickle cell disease;
	(9) ruptured intracranial aneurysm with or without vasospasm of the artery supplying
	the infarcted area;
	(10) severe hyperhomocysteinemia;
	(11) Horton's disease;
	(12) other cerebral inflammatory or infectious angiitis;
	(13) moyamoya disease, etc.
	(15) moyamoya discase, etc.
O2 (causal link is	(1) saccular aneurysm (with a suspicion of embolism from it)
O2 (causal link is uncertain)	(1) saccular aneurysm (with a suspicion of embolism from it)

unlikely but the	(2) thrombocythosis <800,000/mm 3;
disease is present)	(3) antiphospholipid antibody <100 GPL units;
End Substitution of the Su	(4) homocysteinemia <40 μmol/l;
	(5) malignoma with associated hypercoagulation (high D-dimer levels), deep vein
	thrombosis or pulmonary embolism
	and/or recent chemotherapy
O0 (no other cause	Ruling out other causes: negative: cerebrospinal fluid, complete hemostasis, cerebral
detected)	arterial imaging, family history of
	inherited disease, inflammatory markers (erythrocyte sedimentation rate, C-reactive
	protein), hematologic tests (platelet,
	leucocytes, and eosinophilic counts, hematocrit), specific tests according to the
	suspected disease (e.g. genetic test, retinal
	angiography for Susac syndrome)
O9 (incomplete	Unable to reasonably exclude other causes based on best available diagnostic tests
workup)	and stroke-specific history
D: Causality grades for dissection	
D1 (potentially causal)	(1) arterial dissection by direct demonstration (evidence of mural hematoma:
	hypersignal on FAT-saturated MRI or at autopsy or on TOF-MRA or CT on axial sections showing both enlargement of the
	arterial wall by the hematoma with
	narrowing of the lumen or on echography showing an hypoechoic arterial wall with
	narrowing of the lumen and sudden
	enlargement of the carotid or vertebral (V2) artery diameter;
	(2) arterial dissection by indirect demonstration or by less sensitive or less specific
	diagnostic test (only long arterial stenosis
	beyond the carotid bifurcation or in V2, V3 or V4 without demonstration of arterial
	wall hematoma: on X-ray
	angiography, and/or echography and/or CTA and/or MRA) or unequivocal US with
	recanalization during follow-up
D2 (causal link is uncertain)	(1) arterial dissection by weak evidence (suggestive clinical history, e.g., painful
	Horner's syndrome or past history of arterial
	dissection);
	(2) imaging evidence of fibromuscular dysplasia of a cerebral artery supplying the
	ischemic field
D3 (causal link is unlikely but	(1) kinking or dolichoectasia without complicated aneurysm or plicature;
disease is present)	(2) fibromuscular dysplasia on arteries not supplying the ischemic field
D0 (no dissection detected or	Ruling out dissection: negative FAT-saturated MRI of suspected artery or good quality
suspected)	normal X-ray angiography (too early
	FAT-saturated MRI performed within 3 days of symptom onset can be falsely negative
	and then should be repeated). If there
	is no clinical suspicion of dissection, the patient can be classified D0 provided good-
	quality extra- or intracranial cerebral
D0 (incomplete workup)	artery and cardiac evaluations have been performed In patients aged less than 60 years and with no evidence of A1, A2, S1, C1, or O1
D9 (incomplete workup)	category: no FAT-saturated MRI performed
	on the extra- or intracranial artery supplying the ischemic field or no X-ray
	angiography performed (all performed within 15
	days of symptom onset)
Modified IPSS	selve and the second
classification	
Arteriopathy	Focal cerebral arteriopathy
	Moyamoya
	Arterial dissection
	CADASIL Redicth corner in decord execute mother.
	Radiotherapy induced vasculopathy
	Reversible vasoconstriction syndrome
	Giant cell arteritis Takayasu arteritis
	Takayasu arteritis Primairy angiitis of the pervous system
	Primairy angiitis of the nervous system Significant carotid steposis (>50%)
	Significant carotid stenosis (>50%) Non-significant carotid stenosis (<50%)
	Vasculitis
	Yascantis

	Sickle cell arteriopathy
	Post varicella arteriopathy
	Other
	Unspecified arteriopathy
Cardiac disorders	Congenital heart disease
	Acquired heart disease
	Mechanical valve prothesis
	Mitral valve stenosis
	Mitral valve insufficiency
	Atrial fibrillation
	Sick sinus syndrome Recent myscardial infarction (< 4 weeks)
	Recent myocardial infarction (< 4 weeks) Myocardial infarct (>4 weeks-6months)
	Isolated PFO
	Atrial septal aneurysm
	Dilated cardiomyopathy
	Thrombus in left ventricle
	Thrombus in left atrium
	Akinetic segment left ventricle
	Hypokinetic segment left ventricle
	Biological valve prothesis
	<72 hours after cardiac surgery
	Previous cardiac surgery
	Arrhythmia otherwise
	Infectious endocarditis
	Non-bacterial endocarditis
	Aortic valve stenosis
	Aortic valve insufficiency
	Other
Chronic systemic condition	Fabry's disease
	Fibromuscular dysplasia
	Ehlers Danlos
	Sickle cell disease
	Genetic condition (except CADASIL and genetic coagulation disorders)
	Auto-immune condition
	Hematological malignancy
	Solid extracranial tumor
	MELAS
	Illicit drug use (soft- and/or hard drugs or regular base)
	Other
Prothrombotic state	Factor V Leiden
	Prothrombin mutation
	Protein S deficiency
	Protein C deficiency
	Antithrombin deficiency
	Increased factor VIII activity
	Hyperhomocysteinemia Antiphospholipid syndrome
	Diffuse intravasal coagulation
	Use of oral contraceptives
	Other genetic coagulation disorder
	Other acquired coagulation disorder (HIT, TTP)
Acute systemic condition	<72 hours after surgery
Acute systemic condition	Hypotension at time of event (<90mmHg systole/60 diastole)
	Sepsis (according to SOFA criteria)
	Shock (need of vasopressive agents for a MAP >65 and serum lactate >2 mmol/l)
	Other
Chronic head/neck condition	Migraine
Cin offic fleady fleck colluition	Brain tumor or metastasis
	VP drain
	Cerebral aneurysm
	Intracranial AVM
	THE GOLD AT THE STATE OF THE ST

	Other head/neck tumor				
	Other head/neck condition				
Acute head/neck condition	Trauma head/neck <3 months				
	Tonsillar abces < 4 weeks				
	Meningitis < 4 weeks				
	Head/neck surgery < 72 hours				
	Other				
Pregnancy related	During pregnancy				
	During puerperium (< 6 weeks after delivery)				
Risk factors for early	Hypertension (systolic >140 and/or diastolic >90 24hrs after event)				
atherosclerosis	Smoking (at least 1 cigarette in the past year)				
	Alcohol misuse (>200g of alcohol/week =20 units)				
	Dyslipidemia (total cholesterol >5.0 mmol/l and/or LDL>3.0 and/or HDL<1.0)				
	Diabetes mellitus (sober glucose > 7.0 twice or Hba1c > 48mmol/l)				
	BMI > 25				
	Family history positive (1 degree family member with cardiovascular disease < 60				
	years)				

Supplementary Table 2A-C. Proportion of patients with A) neurovascular imaging, B) cardiac rhythm investigations and C) cardiac ultrasound investigation, by modality.

A*	Neurovascular imaging in total	СТА	MRA	Carotid ultrasound	DSA
Patients (%)	1269 (96%**)	658 (49.8%)	626 (47.4%)	517 (39.1%)	9 (0.7%)
B*	Cardiac monitoring in total	ECG	Prolonged monitoring (>24, <168 hours)	Prolonged monitoring (7 days)	
Patients (%)	1279 (97%)	1279 (96.7%)	1011 (76.5%)	120 (9.1%)	
C*	Cardiac ultrasound in total	TTE	TEE	2 nd TTE	
Patients (%)	1106 (83.7%)	1071 (81.0%)	249 (18.9%)	37 (2.8%)	

^{*} Categories are not mutually exclusive.

Supplementary Table 3. Sources of cardio-embolism in patients with a cardio-embolic stroke.

	Number of patients
High risk sources of cardio-embolism	
Atrial fibrillation	25
Multiple high-risk sources	17
Dilated cardiomyopathy	11
Myxoma	6
Mechanic valve prothesis	5
Infectious endocarditis	5
Myocardial infarction < 4 weeks	4
Left ventricle thrombus	4
Left atrial thrombus	2
Akinetic segment of left ventricle	2
Mitral valve stenosis with AF	2
Sick sinus syndrome	1
Medium risk sources of cardio-embolism	
Patent foramen ovale alone	158
Multiple medium risk sources	24*
Hypokinetic segment of left ventricle	7
Mitral valve insufficiency	6
Congestive heart failure	5
Atrial septum aneurysm	3
Non-infectious endocarditis	2
Atrial flutter	2

AF: atrial fibrillation, PFO: patent foramen ovale

^{**} In the 4% without neurovascular imaging this was deemed unnecessary due to posterior circulation stroke without suspicion of vertebral artery dissection.

^{*: 18} patients had a PFO in combination with an atrial septum aneurysm

Supplementary Table 4. Distribution of 79 patients with multiple causes among TOAST categories.

	LAA	LAS	SVD	CE	Other	Unknown
LAA	x	0	0	2	5	0
LAS	0	х	2	20	17	0
SVD	0	2	х	5	6	0
CE	2	20	5	Х	16	0
Other	5	17	6	16	x	4
Unknown	0	0	0	0	4	х

LAA: Large artery atherosclerosis, LAS: likely atherothrombotic stroke, SVD: small vessel disease, CE: cardioembolic stroke, Other: Other determined cause of stroke

Supplementary Table 5. TOAST etiology distribution among different age-groups.

	LAA	LAS	SVD	CE	Other	Multiple	Cryptogenic
18-49 years	46.6	46.3 years	45.5 years	42.3 years	42.2 years	45.3 years	43.3 years
median age	years	(5.9)	(5.3)	(12.7)	(11.4)	(6.9)	(10.4)
(IQR)	(4.2)						
18-25 years	1 (1.3)	1 (1.3)	2 (2.7)	25 (33.3)	19 (25.3)	1 (1.3)	26 (34.7)
(n=75 <i>,</i> (%))							
26-30 years	2 (2.8)	3 (4.2)	3 (4.2)	19 (26.4)	23 (31.9)	1 (1.4)	21 (29.2)
(n=72 <i>,</i> (%))							
31-35 years	1 (0.9)	5 (4.5) ^a	8 (7.3)	27 (24.5)	32 (29.1)	5 (4.5)	32 (29.1)
(n=110, (%))							
36-40 years	2 (1.1)	23 (12.4) ^{a,c}	18 (9.7) ^a	33 (17.7) ^a	49 (26.3)	10 (5.4)	51 (27.4)
(n=186, (%))							
41-45 years	17 (4.5) ^c	49 (12.9) ^{a,b}	60 (15.8) ^{a,b,c}	55 (14.5)	74 (19.5) ^{b,c}	26 (6.8)	99 (26.1)
(n=380, (%))				a,b,c			
46-49 years	36 (7.2) ^{c,d}	91 (18.2) ^{b,c,d}	75 (15.0) ^{b,c}	67 (13.4) ^{b,c}	90 (18.0) ^{b,c,d}	36 (7.2)	104 (20.8) ^a
(n=499, (%))							

LAA: Large artery atherosclerosis, LAS: likely atherothrombotic stroke, SVD: small vessel disease, CE: cardioembolic stroke,

Other: Other determined cause of stroke

a: Significant compared to age group 18-25

b: Significant compared to age group 26-30

c: Significant compared to age group 31-35

d: Significant compared to age group 36-40

e: Significant compared to age group 41-45

Supplementary Table 6. Distribution of patients along ASCOD categories. (A) All 1322 patients and (B) 73 of 333 patients with cryptogenic stroke according to TOAST that fall into one of the ASCOD categories.

Α	N (%)		N (%)		N (%)		N (%)		N (%)
Α0	883 (66.8)	SO	925 (70.0)	CO	797 (60.3)	00	851 (64.4)	D0	847 (64.1)
A1	72 (5.4)	S1	87 (6.6)	C1	97 (7.3)	01	127 (9.6)	D1	165 (12.5)
A2	31 (2.3)	S2	92 (7.0)	C2	33 (2.5)	02	21 (1.6)	D2	3 (0.2)
А3	114 (8.6)	S3	59 (4.5)	C3	183 (13.8)	О3	135 (10.2)	D3	1 (0.1)
A9	222 (16.8)	S9	159 (12.0)	C9	212 (16.0)	09	188 (14.2)	D9	306 (231)
Total	1322 (100)	Total	1322 (100)	Total	1322 (100)	Total	1322 (100)	Total	1322 (100)
В	N (%)		N (%)		N (%)		N (%)		N (%)
<i>B</i> A0	N (%) 47 (64.4)	S0	N (%) 50 (68.5)	СО	N (%) 56 (76.5)	00	N (%) 30 (41.1)	D0	N (%) 56 (76.7)
		S0 S1		C0 C1		00 01		D0 D1	
Α0	47 (64.4)		50 (68.5)		56 (76.5)		30 (41.1)		56 (76.7)
A0 A1	47 (64.4) 1 (1.4)	S1	50 (68.5) 0 (0.0)	C1	56 (76.5) 0 (0.0)	01	30 (41.1) 1 (1.4)	D1	56 (76.7) 0 (0.0)
A0 A1 A2	47 (64.4) 1 (1.4) 3 (4.1)	S1 S2	50 (68.5) 0 (0.0) 2 (2.7)	C1 C2	56 (76.5) 0 (0.0) 1 (1.4)	01 02	30 (41.1) 1 (1.4) 3 (4.1)	D1 D2	56 (76.7) 0 (0.0) 1 (1.4)

Table A (ASCOD classification for all 1322 patients):

Of all 1322 patients, 194 patients had a zero for all categories, which means after evaluation no cause was identified. Of the patients with a 9 (incomplete work-up) in one or more of the categories, 163 patients had no other possible cause (A-S-C-O-D with 1, 2 or 3) in one of the other categories. Only 2 patients had an incomplete work-up (9) for all five subcategories.

Table B (ASCOD classification for 73 cryptogenic patients according to TOAST, the other 260 were also cryptogenic according to the ASCOD classification):

The causal link was believed to be very uncertain in the patients with A1 and O1, who were therefore classified as having a cryptogenic stroke according to the TOAST classification by 4 raters.