

Atrial cardiopathy: Minimum, Preferred, and Optional Dataset Recommendations.

Dataset	Minimal	Preferred	Optional
Demographics	<ul style="list-style-type: none"> Age Sex 	<ul style="list-style-type: none"> Ethnicity Education 	
Index event and stroke severity	<ul style="list-style-type: none"> Index event type (Ischaemic stroke, TIA, or ICH) Baseline NIHSS (total score) EVT ABCD2 score (TIAs only) 	<ul style="list-style-type: none"> TOAST¹ (or SSS-TOAST²⁰) classification ESUS¹² IVT 	
Pre-morbid functional status	<ul style="list-style-type: none"> Pre-morbid mRS 	<ul style="list-style-type: none"> Independent vs dependent Dementia prior to stroke 	
Medical History	<ul style="list-style-type: none"> AF on ECG on admission Documented clinical history of AF known prior to stroke New diagnosis of AF since stroke (AFDAS)² Hyperlipidaemia Hypertension Diabetes mellitus Prior ischaemic stroke Prior ICH Prior TIA Prior history of coronary artery disease Chronic kidney disease Prior history of peripheral arterial disease 	<ul style="list-style-type: none"> Obstructive sleep apnoea AF subtype (paroxysmal, persistent, or permanent)²⁰ Smoking status Alcohol (units per week) Heart failure Aortic valve disease Mitral valve disease Hyperthyroidism (history or by lab values) Heart rate Systolic BP Diastolic BP Previous relevant clinical bleeding CHA2DS2-VASc ABC-stroke score Height and weight (to calculate BMI) 	<ul style="list-style-type: none"> HAS-BLED score Charlson Co-morbidity Index⁷ Frailty status (e.g. Clinical Frailty Scale) Prosthetic heart valve (and type)
Medication Use (pre-event)	<ul style="list-style-type: none"> Antiplatelet Anticoagulant Statin Anti-hypertensive medication use 	<ul style="list-style-type: none"> Any lipid-lowering drug ACE inhibitor or ARB Calcium channel blocker Thiazide diuretic Loop diuretic Mineralocorticoid receptor antagonist Beta-blocker Anti-arrhythmics Nephrilysin inhibitors (e.g. Sacubitril) Anticoagulant type (if applicable) Anticoagulant dose (if applicable) INR at time of stroke (if taking vitamin K antagonist) 	
Baseline Neuroimaging†		<ul style="list-style-type: none"> Number of (sub)-acute infarcts Location of (sub)-acute infarcts (e.g. cortical, subcortical, watershed etc) Size of (sub)-acute infarcts (diameter or volume) Evidence of insular infarction Early infarct signs (e.g. ASPECTS) 	<ul style="list-style-type: none"> Number of established infarcts Chronic lacunar infarcts¹² Chronic non-lacunar infarcts¹² Brain volume (WMV, GMV) Core volume (perfusion imaging)⁵ Penumbra volume (perfusion imaging)⁵ Mismatch volume (perfusion imaging)

		<ul style="list-style-type: none"> White matter hyperintensities (Fazekas scale)⁹ CAA diagnostic criteria met using Boston¹³ or Edinburgh¹⁴ Criteria (+/- individual components eg CMBs, siderosis) White matter hyperintensity volume 	<ul style="list-style-type: none"> Mismatch ratio (perfusion imaging) SO-EndAIF
Baseline Vascular imaging	<ul style="list-style-type: none"> LVO 	<ul style="list-style-type: none"> Culprit vessel stenosis MeVO/DVO⁴ Arterial dissection Intra-luminal thrombus Suspected culprit plaque 	<ul style="list-style-type: none"> Location of suspected culprit plaque Plaque-RADS score (and individual components intra-plaque haemorrhage, ulceration etc)²¹ IMT
Cardiac Evaluation	<ul style="list-style-type: none"> 12-lead ECG performed Transthoracic echocardiography (TTE) performed LA thrombus PFO 	<ul style="list-style-type: none"> Cardiac monitoring modality for AF detection. Duration of cardiac monitoring for AF detection Trans-oesophageal echocardiography (TOE) Cardiac MRI LA diameter LA volume LA volume index LA emptying fraction (passive/active/total) LA fibrosis (Utah stage of LA LGE) Atrial septal aneurysm Mitral stenosis Aortic stenosis LV ejection fraction LV thrombus ECG waveform LV WMA P-wave duration LV apical hypokinesis Heart rate LVH (by ECG or echocardiography) AIB 	<ul style="list-style-type: none"> Cardiac CT LA Strain LA strain rate LA morphology LA spontaneous echo contrast LA fibroelastoma/myoxma LAA shape/morphology LAA flow velocity LAA thrombus LAA orifice area LAA volume LAA trabeculation LAA fibrosis LAA spontaneous echo contrast Valvular vegetations Endocarditis LV mass index LVDd LVDs LV longitudinal strain e' LV diastolic function (E/e') IV septal wall thickness Posterior wall thickness Aortic plaque thickness Doppler peak E-wave velocity Doppler A-wave velocity time integral PTFV1 P-wave area PR interval QTc P wave axis P wave axis
Baseline Laboratory Variables	<ul style="list-style-type: none"> eGFR LDL NT-proBNP or BNP Troponin T or troponin-I 	<ul style="list-style-type: none"> Creatinine HDL Total cholesterol Triglycerides MR-proANP or ANP or NT ANP LP(a) CRP or high-sensitivity CRP* D-dimer 	<ul style="list-style-type: none"> Factor VIII Fibrinogen Cystatin C GDF-15* Copeptin* ApoA1 ApoB IL-16* D-dimer Anti-thrombin-III IL-6 NFL* BMP10 Haemoglobin Creatinine clearance VCAM-1* Midregional proadrenomedullin*

<p>Outcomes[‡]</p>	<ul style="list-style-type: none"> • AF • Recurrent ischaemic stroke • ICH • Myocardial infarction²⁴ • MACE* • Cardiovascular death²³ • All-cause death 	<ul style="list-style-type: none"> • Diagnostic modality for AF detection • AF burden²² • Silent brain infarcts • Systemic embolism • Acute decompensated HF²³ • Death due to HF²³ • Sudden cardiac death²³ • Functional outcome (mRS at 90 days) • Dementia • Major bleeding (using a standardised definition) • TIA 	
<p>The interval from index event to biomarker measurement is considered a minimum dataset item.* These items could consider more for prognosis than aetiology. ‡ For each outcome, the time interval between index event and outcome should be reported. It is recommended that MACE should always at a minimum include the individual components of recurrent non-fatal stroke (ischaemic or ICH), non-fatal myocardial infarction, and cardiovascular death. Information regarding the imaging modality used should always be collected. AF, atrial fibrillation; AFDAS, atrial fibrillation detected after stroke; AIB, Apparent Integrated Backscatter; ANP, atrial natriuretic peptide; BMI, body mass index; BMP-10, Bone morphogenetic protein 1; BNP, brain natriuretic peptide; CAA, cerebral amyloid angiopathy; CABG, coronary artery bypass graft; CMBs, cerebral microbleeds; CRP, C-reactive protein; CT, computerised tomography; DVO, distal vessel occlusion; ECG, electrocardiography; eGFR, estimated glomerular filtration rate; e', tissue doppler-derived early diastolic velocity of the mitral annulus; ESUS, embolic stroke of undetermined source; EVT, endovascular thrombectomy; GDF-15, growth differentiation factor-15; GMV, grey-matter volume; HDL, high-density lipoprotein; HF, heart failure; ICH, intra-cerebral haemorrhage; IL-6, interleukin-6; IL-16, interleukin-16; IMT, intimal media thickness; IS, ischaemic stroke; IVT, intravenous thrombolysis; LA, left atrial; LAA, left atrial appendage; LDL, low density lipoprotein; LGE, late gadolinium enhancement; LP(a), lipoprotein (a); LV, left ventricle; LVDD, left ventricular diastolic dysfunction; LVH, left ventricular hypertrophy; LVO, large vessel occlusion; MACE, major adverse cardiovascular and cerebrovascular events; MEVO, medium vessel occlusion; MRA, magnetic resonance angiography; MRI, magnetic resonance imaging; MR-proANP, mid-regional pro-atrial natriuretic peptide; mRS, modified Rankin scale; NFL, neurofilament light chain; NIHSS, National Institute for Health Stroke Scale; NTproBNP, N-terminal prohormone of brain natriuretic peptide; PFO, patent foramen ovale; PWTV1, p-wave terminal force in lead V1; SO-EndAIF, Scan Onset to End of Arterial Input Function. Reflects cardiac output efficiency; SSS-TOAST, Stop Stroke Study TOAST; TIA, transient ischaemic attack; TOAST, The Trial of Org 10172 in Acute Stroke Treatment; TOE, trans-oesophageal echocardiography; TTE, transthoracic echocardiography; VCAM-1, vascular cell adhesion molecule 1; WMV, white matter volume. † The imaging modality in all instances should be captured.</p>			