



ARCTIC-I Appendix 9B – Data Collection Form

1* Subject ID	Country code For each centre, th	- h h h - hospital code e country code and	- p p p - individual patient num hospital code remain the		out the study.	
2* Informed Co	nsent (IC) requi □ No	red (according to Yes If yes, fill in Who gave cons	n Date of IC d d ent? □ F	- m m Patient _egal represe	m - 2 0 y y ntative	
3* Age (years) 4* Height (cm) 5* Weight (kg) 6* Sex	_ _ _ Male Female	7* Functional s	Explanation for m O No symptoms 1 No significant di 2 Slight disability 3 Moderate disabi 4 Moderately seve 5 Severe disability	nRS: sability ility ere disability	8* Residence before this stroke: ☐ At home ☐ Nursing home ☐ Not known	
9* Proven or probable SARS-CoV-2 infection in the four weeks preceding the stroke		☐ No ☐ Yes Tick yes if at least one of the following applies: • positive PCR for SARS-CoV-2 • positive anti-SARS-CoV-2 antigen test • respiratory symptoms after contact with confirmed COVID-19 case • respiratory symptoms and features of COVID-19 in thoracic CT				
10* Known comorbidities ☐ Atrial fibrillation ☐ Ischemic heart disease ☐ Congestive heart failure ☐ Prior stroke (any kind) ☐ Prior TIA ☐ Peripheral arterial disease ☐ Prior thromboembolism ☐ Diabetes mellitus ☐ Hyperlipidemia ☐ Hypertension ☐ Dialysis ☐ Smoking		11* Known chronic medication ☐ Vit. K antagonist ☐ Non-VKA (NOAC/DOAC) ☐ Acetylsalicylic acid ☐ Anti ADP (Clopidogrel etc.) ☐ Beta blockers ☐ AT II-/ACE-/Renin-inhibitor ☐ Calcium antagonists ☐ Diuretics ☐ Oral antidiabetics ☐ Insulin ☐ Statins ☐ Other lipid lowering drugs		12* Lab data on admission INR . Haemoglobin _ . □ g/dl □ mmol/l Creatinine _ . _ . _ □ mg/dl □ μmol/l Glucose _ . _ . _ □ mg/dl □ mg/dl □ mmol/l		
13* Onset of Stroke ☐ Known Enter date and time of onset of new stroke symptoms below. ☐ Unknown Enter date and time patient is last known well below. Date d d - m m m - 2 0 y y Time h h : m m [0-23] hrs : [0-59] min						
14* Transfer from primary admitting hospital □ No □ Yes 15* Admission to hospital performing the intervention Enter date and time Date d d - m m m - 2 0 y y Time h h : m m [0-23] hrs : [0-59] min						
16* NIHSS _ (00–42) New stroke symptoms scored by neurologist			17* ASPECTS _ (00−10) □ Not known CT score assigned by neuroradiologist			





18* Acutely occluded vessel Tick all that apply ☐ Proximal (extracranial) ICA ☐ Distal (intracranial) ICA ☐ Proximal MCA (M1) ☐ Distal MCA (M2) ☐ Anterior cerebral artery (ACA) ☐ Vertebral artery (VA) ☐ Basilar artery (BA) ☐ Posterior cerebral artery (PCA) ☐ Other (specify):	21* Intracranial haemorrhag	initial imaging Not known		
22* IV administration of thrombolytic □ No □ Yes − If yes, Enter date and time Date d d - m m m - 2 0 y y Time h h : m m [0-23] hrs : [0-59] min				
23* Acute antihypertensive treatment in ambulance or hospital before the intervention				
25* Anaesthesia team complete & present when patient arrives in angio suite ☐ No, not requested ☐ No, not available ☐ Yes	26* Highest qualification in a ☐ Non-physician anaesthetis: ☐ Physician anaesthetist train ☐ Physician anaesthetist train ☐ Specialist (physician)	t nee < 2 years		
27* Specialty of interventionalist ☐ Neuroradiology ☐ Radiology ☐ Neurology ☐ Neurosurgery ☐ Cardiology ☐ Other	28* Qualification of intervent ☐ Trainee < 2 years ☐ Trainee > 2 years ☐ Specialist	tionalist		
29* Timing of treatment steps (for definitions see below this table) Event Date Time				
1 Patient takeover by anesthesia team d c	- m m m - 2 0 y y	[h h : m m		
2 Beginning of anaesth./sedation/stby d c	- m m m - 2 0 y y	h h : m m		
3 Puncture for interventional access d c	- m m m - 2 0 y y	h h : m m		
4 Vessel reperfusion (or: last attempt) d c	- m m m - 2 0 y y	h h : m m		
	- m m m - 2 0 y y	h h : m m		
6 Patient handover (to ICU/SU/PACU)	- m m m - 2 0 y y	h h : m m		

- **1** When anaesthesia personnel begins to assess the patient and/or intervenes. Also applies if the anaesthesia team joins into an ongoing procedure. Pragmatically, this could be the time of the first recorded readings in the anaesthesia protocol.
- **2** First injection of an opioid, a sedative or a hypnotic or, in case of standby, the time when the decision for stand-by was taken. If the interventionalist team has administered sedatives before, then this time is recorded.
- **3** Time of first skin puncture for placement of the arterial sheath.
- **4** The time of reperfusion may be read out from the radiological findings. Reperfusion is noted when contrast agent flows again through the previously occluded vessel for the first time. Fill in time of last attempt in case of futile efforts.
- **5** The end of the procedure is assigned when the interventionalist has removed the arterial sheath, maybe deployed a sealing system and applied a pressure dressing.
- **6** When the handover was completed and the anaesthetist was ready for the next case. If the anaesthetist stays with the patient in the next unit for organisational reasons, then note the time as if he or she had handed over the patient.

^{*}Asterisked items are mandatory.



Systolic BP



SpO₂

Heart rate

30* First measurements (just prior to / at the beginning of anaesthesia care)

Diastolic BP

[mmHg]	[mmHg]	[mmHg]		[bpm]	[%]
31* Primary periprocedural supportive approach Which approach was pursued when ET began? ☐ General anaesthesia Ventilation of the patient via an extra- or transglottic airway device ☐ Sedation Spontaneous breathing preserved; no extra- or transglottic airway device used ☐ Standby The patient received no opioids, sedatives or hypnotics at all Option 'standby' or 'sedation' may also apply when procedure was begun before arrival of the anaesthesia team					
32* Secondary conversion to general anaesthesia □ No □ Yes If yes, enter date, time, reason Date d d - m m m - 2 0 y y Time h h : m m [0-23] hrs : [0-59] min Reason for conversion (tick single most appropriate) □ Movement □ Respiratory/airway □ Seizure □ Regurgitation / tracheobronchial aspiration □ Other (specify)					
33* Main airway device (tick single most invasive) □ None □ Naso-/oropharyngeal □ Extraglottic (LMA etc.) □ Endotracheal tube 34* Initial muscle relaxant (tick one option) □ None □ Non-depolarising □ Depolarising				(tick one option)	
35* Arterial line for blood pressure measurement present? ☐ No ☐ Yes (from the beginning) ☐ Yes (inserted later in the course of the intervention)					
36* Opioid(s) used ☐ None ☐ ☐ Piritramide ☐	Remifentanil 🗆 Alfen		nyl	☐ Sufentanil	☐ Pethidine (= Meperidine)
37* Sedative(s)/hypnotic(s) used initially (tick all that apply) □ None □ Propofol □ Esketamine □ Midazolam □ Remimazolam □ Thiopental □ Dexmedetomidine □ Etomidate □ Other					
38* Sedative(s)/hypnotic(s) used for maintenance (tick all that apply) □ None □ Propofol □ Esketamine □ Midazolam □ Remimazolam □ Thiopental □ Dexmedetomidine □ Other					
□ None □	ses used for mainter Sevoflurane ☐ Isoflu Xenon ☐ Othe	urane 🔲 Desflu		□ Halothane	
 □ None □ Norepinephrine □ Epinephrine □ Phenylephrine □ Ephedrine □ Cafedrine/Theo □ Other: 		μg μg μg mg _ . ml (of und (write nam	iluted e, unit	mixture) , and cumulative dose	
41* Antihypertensives used during the procedure (tick all that apply) □ None □ Urapidil □ Nimodipine □ Nicardipine □ Clevidipine □ Other					

Mean BP

^{*}Asterisked items are mandatory.





42* Measurements during anaesthesia care – 'Time elapsed' (first column) refers to beginning of anaesthesia or sedation (i.e., first injection of sedative, hypnotic or opioid) or to the decision not to sedate the patient (stand by). Write etCO₂ only in case of controlled ventilation.

Time elapsed	Systolic BP [mmHg]	Diastolic Bi	Mean BP [mmHg]	Heart rate [bpm]	SpO₂ [%]	etCO ₂ [mmHg]
+2 min						
+4 min						
+6 min						
+8 min						
+10 min						
+15 min						
+20 min						
+40 min						
+60 min						
+90 min						
43* Temperature						
44* Richmond Agitation Sedation Scale (RASS)+4 combative +3 very agitated-1 drowsy -2 light sedationat takeover by anaesthesia team +2 agitated +1 restless-3 moderate sedation 						
45* Reperfusion as graded by mTICI _ (0–3) mTICI score will be assigned by (neuro-)radiologist						
46* Final measurements (prior to transfer from angio suite)						
Systolic B [mmHg]		stolic BP mmHg]	Mean BP [mmHg]	Heart [bpn		SpO ₂ [%]
47* Complications during procedure (tick all that apply) ☐ None ☐ Access-site problems ☐ Intracerebral haemorrhage ☐ Tracheobronchial aspiration ☐ Vasospasm ☐ Subarachnoid haemorrhage ☐ Severe bronchospasm ☐ Dissection ☐ Airway injury ☐ Allergy or angioneurotic edema ☐ Thrombus migration ☐ Regurgitation/vomiting ☐ Acute circulatory failure 48* Patient handover to (choose single most appropriate) 49* Breathing					asm urotic edema	
☐ Intensive care unit ☐ Stroke unit without endotracheal tube or supraglottic airway device upon handover ☐ Other intermediate care unit ☐ Other hospital ☐ No ☐ Yes					over	

Next page: Follow-up 90 days (range, 80–105 d) after stroke.

^{*}Asterisked items are mandatory. ARCTIC-I Appendix 9B — Data Collection Form — V 3.0, 27 Jan 2022





Follow-up 90 days (range, 80–105 d) after stroke. Primary endpoint: Item 53!

50* Date of follow-up d d - m	m m - 2 0 y y				
51* Source of information for items 52 & 53 ☐ Patient ☐ Relative, friend or representative ☐ Primary care physician ☐ Patient record	52* Current residence ☐ At home ☐ Nursing home ☐ rehab/hospital ☐ n/a (if dead)	53* Functional status upon follow-up mRS (0–6) Primary endpoint! Refer to scoring aid below.			
If the patient cannot answer, the questions can be addre Go through the scheme below until you reach					
YES Could you live alone without an being able to bathe, use the toilet, sho					
Can you do everything that you were doing right before your stroke, even if slower and not as much?	without help t	om one room to another from another person?			
YES NO: mRS 2	YES: mRS 3	NO			
Are you completely back to the way you were		ou sit up in bed			
right before your stroke? YES: mRS 0 NO: mRS 1	YES: mRS 4	out any help? NO: mRS 5			
123.1111.3 0	1L3: IIII.3 4	140. IIII.9 3			
54* Procedures and events between stroke a ☐ None ☐ Re-Stroke since day 0 ☐ Carotid stenting for re-stroke ☐ Carotid endarterectomy for re-stroke ☐ Intracranial bleeding ☐ Decompressive hemicraniectomy ☐ External ventricular drain ☐ Surgical groin revision ☐ Reperfusion therapy of the leg ☐ Delirium treated with new medication ☐ Percutaneous coronary intervention	Tracheostomy ☐ Antibiotics for Pneumonia ☐ COVID-19 (PCR +) ☐ Mild ARDS (paO₂/FiO₂ 201−300) ☐ Moderate ARDS (paO₂/FiO₂ 101−200) ☐ Severe ARDS (paO₂/FiO₂ < 101) ☐ Thromboembolism ☐ Gastrointestinal bleeding ☐ Transfusion of packed red cells ☐ Other (specify):				
55* Has the patient deceased (mRS = 6)? ☐ No ☐ Yes If yes, fill in Date of death d d - m m m - 2 0 y y					
56* Cause of death (choose single most appropriate ☐ Intracranial bleeding ☐ Myocardial infarction ☐ Thromboembolism ☐ Pneumonia ☐ Other cause (specify):	☐ Malignant hemispl☐ Acute heart failure☐ Bleeding (other th☐ Other infectious co	e an intracranial)			

^{*}Asterisked items are mandatory.