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**DIGITAL, RISK-BASED SCREENING FOR ATRIAL FIBRILLATION IN THE
EUROPEAN COMMUNITY**

Deliverable D1.2

Catalogue detailing the available datasets and associated variables in the consortium (Month 18)

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Deliverable 1.2

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Executive Summary

This document contains a catalogue of the variables of each of the clinical studies in AFFECT-EU. The variables represent the data for the metaanalyses in forthcoming deliverables. More structural data about the studies, such as country, sample size, recruitment procedures, eligibility criteria, and screening procedures have been reported in deliverable D1.1. A short instruction of each studies will presented in chapter study overview.

Table 1 shows an overview of the data catalogue. In general, the merged AFFECT-EU database will have baseline data from electrocardiography (ECG), basic demography (age and sex), and medical history, and outcomes of atrial fibrillation detection and anticoagulation on all screenees. Further, additional baseline risk factors such as smoking, alcohol consumption, vital signs and drug prescriptions, and outcomes of stroke will be available for most screenees. A subset will have additional data such as blood tests, socioeconomic and more. **Table 2** shows the codebook detailing all the variables included in the consortium.

1. Study overview

LOOP

Partner: REGIONH

The (Danish) LOOP Study is an investigator-initiated, population-based, prospective, open-label, controlled, parallel group multi-center trial, randomizing one fourth of the participants to receive an ILR with continuous ECG home monitoring (ILR group), while the remaining three fourths of participants will receive usual standard care (control group). Expected follow-up is minimum 4 years, but the trial is event driven and is planned to continue until 279 adjudicated primary endpoints have occurred. The primary hypothesis is that monitoring with ILR will lead to high AF detection rates, and that initiation of OAC will reduce the rates of stroke and systemic thromboembolisms in patients with increased risk of stroke, not previously diagnosed with AF. Secondary hypotheses include that ILR monitoring will 1) identify a large number of cases of asymptomatic AF and other arrhythmias, that would otherwise not have been diagnosed, 2) identify predictive baseline variables for AF and other arrhythmias such as lengthening P-wave and PR-interval in the ECG, white matter lesions in the brain MRI, markers of left atrial volume, function and fibrosis in cardiac MRI and echocardiography, and biomarkers and genetic and epigenetic factors in blood tests, 3) be cost-effective as a preventive tool in a population at risk of stroke with positive impact on QoL, and 4) prevent cognitive decline.

SAFER

Partner: CU and UOXF

The SAFER study (Screening for Atrial Fibrillation with ECG to Reduce stroke) is an 8-year programme to determine whether screening for AF in general practice is feasible, effective and cost-effective. There are five main stages to the programme: 1.) Feasibility study to test the feasibility of a screening programme for AF (including paroxysmal AF) set in general practice in people aged 65 years and over using a hand held single lead ECG recorder (Zenicor). 10 GP practices, each inviting 800 eligible patients to take part in the study, with a minimum of 160 patients per practice attending AF screening. Due to the COVID pandemic, an additional feasibility study

was carried out in three practices of patients aged 70 and over to determine the feasibility of remote delivery of the screening intervention. 2.) Internal pilot trial to determine whether key parameters (rate of AF detection; uptake of anticoagulation in screen +ve patients) are achieved. 3.) Cluster randomised controlled (main) trial. To determine if offering screening for AF (including paroxysmal AF) in people aged 70 and over in general practice leads to reduced stroke incidence and other key outcomes. 360 GP practices, cluster randomised 2:1 to control and screening, with 350 patients recruited per practice. Each of the 120 screening practices will invite consented patients to attend AF screening. Follow-up will be indirect using practice and registry records, for an average of 5 years. 4.) Parallel qualitative studies to inform how screening can be optimised in both the main trial and if implemented nationally. 5.) Economic modelling to determine whether, in the light of the trial results, screening is cost effective.

AFRICAT

Partner: VHIR

The AFRICAT study (Atrial Fibrillation Research In CATalonia) is an observational, prospective, multicentre, population-based study divided in two phases. During Phase I, already completed, subjects aged 65-75 with hypertension and diabetes were identified from primary care registries, and invited to participate in the study until the inclusion of 100 subjects. In these patients, the investigators completed a clinical assessment, testing of different hand-held ECG or pulse devices for AF screening, discovery of blood biomarkers for AF (by aptamer technology and RNA expression), and validation of biological candidates from the literature and previous results. All patients received Holter monitoring with a wearable device (NuuboTM). In parallel, a predictive risk model for AF was developed from historical records from the areas in which the study will be carried out has been developed.

A Phase II-validation in 259 patients selected from the same population using the predictive model previously mentioned, belonging to the highest risk categories has been completed. In these patients, the best biomarkers including NT-proBNP and devices from phase I were validated, and patients were again monitored with the wearable Holter device.

With the results from this validation analysis a screening program will be designed based in the combination of clinical predictors, devices to detect AF (handheld-ECG

or pulse wave detectors), blood biomarkers determination and long-term monitoring with wearable Holter.

Irish Opportunistic Screening

Partner: HSE

The Irish Opportunistic Screening study for risk assessment and stratification of atrial fibrillation in adults 65 years and over in Ireland. This is a mixed methods study combining a cohort study methodology with a quasi-experimental methodology. The cohort of AF patients (n=792) from the 2014 AF opportunistic screening study will be combined with a comparator non-AF sample. In the 2014 study we collated a range of commonly available AF risk factors and health determinants on all new AF patients only. In particular those related to stroke and bleeding risk. Specific focus were variables in the CHA2DS2-VASc score (congestive heart failure, hypertension, age 65/75 years, prior stroke, history of vascular disease, and sex) due to consistent availability. In this study we will expand this dataset with exploration of these factors in all AF patients in our cohort and comparator group. Descriptive epidemiological and biological sampling will be carried out on both the cohort and the comparator populations. Descriptive epidemiological data will include demographic, socio-economic and lifestyle characteristics. Biological sampling will include NT-ProBNP, a high-sensitivity C-reactive protein and low-density lipoprotein cholesterol (LDL-C). Primary endpoints include death, stroke, heart failure, cardiovascular events. Secondary endpoints include 1.) Risk stratification of AF patients for primary endpoints and 2.) biomarker ranges and values associated with risk of death, stroke, heart failure, cardiovascular 3.) demographic, socioeconomic, lifestyle and co-morbidity profiles associated with increased risk of death, stroke, heart failure, cardiovascular events.

AF-Stoke

Partner: RWTH

The AF Stoke stuy (Opportunistic Screening in Pharmacies for Atrial Fibrillation in elderly (>65 Years)) performed a 4-week, prospective, pharmacy-based AF screening study in 7107 elderly citizens (≥ 65 years) using a hand-held, automated, one-minute single-lead ECG (SL-ECG) recording device. Prevalence and incidence of AF was assessed, and data on all-cause death and hospitalization for cardiovascular (CV)

causes were collected over a median follow-up of 401 (372; 435) days. Primary endpoint is death on any cause or hospitalization for cardiovascular cause. Follow-up is 12 months. A brief medical history including cardiovascular comorbidities, medication, diagnosis and treatment related to atrial fibrillation and cardiovascular comorbidities was obtained at study entry. The recorded ECGs were extracted as csv and pdf file and a human overread was performed to validate automated AF diagnosis by at least two ECG experts for ECGs without screen-detected AF and 3 for all ECGs suspicious for AF.

RITMO OK

Partner: UNIMORE

The aim of RITMO OK study is to assess the prevalence of unknown AF among adults with no previous history of AF, during a single-time point AF screening, performed on the occasion of meetings or social recreational activities organized by groups of volunteers and associations for promoting healthy behaviours and wellness. Additionally, we aim to assess which clinical variables, among those usually included in clinical risk scores for AF management, could provide a higher chance of diagnosing a new AF, alone or in combination.

Anonymously data will be collected during 20 initiatives held by volunteers, patient groups and associations for promoting healthy behaviours and wellness. Two to four physicians voluntarily will participate in every initiative to explain to potential participants the purpose and the implications of AF screening. The number of participants in every initiative is expected to vary between 80 and 700. Participants will be at least 18 years old and will provide informed consent, after detailed information on the reasons for searching AF and on the implications of its detection. The study protocol was approved by the local Ethics Committee (N. 692/2020 Comitato Etico AVEN). Subjects with a known history of AF or those with an implanted cardiac implanted electronic device (pacemaker or defibrillator) will not be included. Participation of subjects aged 65 years or older is encouraged, but younger subjects will be accepted too. Before testing, the voluntary medical personnel will perform a brief interview with each participant in order to collect anonymized data regarding patients' characteristics, as well as factors included in the CHA2DS2-VASc score.

For testing, we used the MyDiagnostick bar device (Applied Biomedical Systems BV, Maastricht, The Netherlands), a single-lead ECG device commonly used in AF

screening initiatives, which returns a green or red light according to the absence or presence of rhythm irregularities suspected for AF, through an automatic analysis of tracings associated proven to be reliable in terms of sensitivity and specificity [18, 19]. The MyDiagnostick device has a shape of a stick (length 26 cm, diameter 2 cm) with electrodes at both ends and it automatically switches on when held by the patient. Rhythm analysis requires that the individual simply holds the device in both hands for 60 seconds. The device turns red, in case of rhythm irregularities suspected for AF, or green, indicating a normal cardiac rhythm. The MyDiagnostick can store up to 140 ECG Lead I strips lasting 1 min each. The device can be connected via USB to a computer and interrogated immediately to show the last recorded ECG strip.

Enrolled patients will be invited by voluntary medical personnel to hold the MyDiagnostick device for 1 min. In case of a red alarm, indicating an irregular tracing suspected to be AF, a 12-lead ECG will be performed within 24 hours and interpreted by a cardiologist to confirm the presence of AF. AF will be diagnosed only when confirmed at the 12-lead ECG tracing. The same physicians involved in AF screening were responsible for organizing the access to the 12-lead ECG within 24 hours, in every case of red alarm at the MyDiagnostick device. All the subjects with AF diagnosed at the 12-lead ECG will be directly referred to a cardiologist, for a complete clinical evaluation, according to usual practice, and for prescription of anticoagulants, when appropriate. Data will be analysed considering the diagnosis of this arrhythmia on the 12-lead ECG performed after detection of an irregular rhythm by MyDiagnostick device.

The primary analysis will be performed in the whole group of participants, focusing on the detection of AF as confirmed by 12-lead ECG, and on the identification of factors associated with a higher likelihood of AF detection.

A secondary analysis will be targeted to the subgroup of subjects aged ≥ 65 years. The predicted recruitment is between 2500 and 2900 subjects.

D₂AF

Partner: AMC

The D₂AF study will refine and predict the risk of atrial fibrillation using an electrocardiographic algorithm enhanced with clinical variables in primary care and post-stroke settings. 1.) Main part of the study is to develop a diagnostic validation study

to evaluate the diagnostic test characteristics of the SRA method enhanced with clinical variables for predicting AF with long-term Holter monitoring as reference standard in primary care patients of 65 years and older and post-stroke patients unknown with AF. Primary outcome measure is the diagnostic accuracy (sensitivity and specificity) of the SRA of the first 1, 2, 6, 12 and 24 hours of the Holter monitoring enhanced with clinical variables for predicting AF with two weeks Holter monitoring as reference standard in primary care patients of 65 years and older and post-stroke patients, respectively.

2.) Exploratory part: A diagnostic validation study to evaluate the diagnostic test characteristics of the SRA method as applied on a 1-lead ECG enhanced with clinical variables for predicting AF with clinical follow-up as reference standard in primary care patients of 65 years and older unknown with AF. Primary outcome measure is the diagnostic accuracy (sensitivity and specificity) of the SRA of the short duration (one minute) one-lead ECG enhanced with clinical variables for predicting AF with clinical follow-up as reference standard in primary care patients of 65 years and older.

STROKESTOP

Partner: KI

The STROKESTOP study is an interventional, parallel design study. Systematic ECG Screening for Atrial Fibrillation Among 75 Year Old Subjects in the Region of Stockholm and Halland, Sweden. All inhabitants born in 1936 and 1937 in the Stockholm and Halland Regions were randomized to a screening intervention with handheld intermittent ECG or to no intervention between 2012 and 2014. Introduction of oral anticoagulation if atrial fibrillation was diagnosed. Primary endpoint: Ischaemic or haemorrhagic stroke, systemic embolism, major bleeding leading to hospitalization or death from any cause. Secondary endpoints: Ischemic stroke, Ischemic stroke and systemic embolism, dementia, all cause mortality, cardiovascular mortality, cardiovascular hospitalization, all-cause stroke, cost effectiveness, initiation and compliance to anticoagulation therapy, detection of atrial fibrillation, pulmonary embolism and deep vein thrombosis. In a next step (STROKESTOP 2) All inhabitants born in 1940 and 1941 in the Stockholm Region were randomized to a screening intervention with handheld intermittent ECG or to no intervention between 2016 and 2018, stratified by NT-proBNP levels. Introduction of oral anticoagulation if atrial fibrillation was

diagnosed. Primary endpoint is reduced incidence of stroke in low-risk group compared to control group

Secondary endpoints is the number of subjects with new discovered AF using intermittent ECG-recordings in the high risk Group with NT-proBNP>125 ng/L. Cost per gained quality-adjusted life-year (QALY) and cost per avoided stroke of the STROKESTOP II screening program. Blood biomarkers predicting new atrial fibrillation

2. Data catalogue

Categories	Variables	LOOP	SAFER	AFRICAT 1	AFRICAT 2	Irish Opportunistic Screening study	AF-Stroke	RITMO OK	D ₂ AF	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2
Baseline data	12-lead ECG...	yes	no	yes	yes	for_subset	no	yes	for_subset	yes	no	no
	single-lead ECG	for_subset	yes	yes	yes	for_subset	yes	yes	yes	yes	yes	yes
	demography...	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	comorbidities...	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	smoking/drinking...	yes	no	yes	yes	yes	yes	no	no	no	no	no
	drug prescriptions...	yes	yes	yes	yes	yes	yes	no	no	no	yes	yes
	vital signs/physical...	yes	no	yes	yes	yes	yes	no	no	yes	yes	yes
	blood tests...	yes	for_subset	yes	no	for_subset	no	no	no	no	for_subset	yes
	quality of life test...	yes	for_subset	no	no	no	no	no	no	no	no	no
	cognitive function test...	yes	no	no	no	no	no	no	no	no	no	no
	socioeconomy...	yes	no	no	no	no	no	no	no	no	yes	yes
	genotyping...	yes	no	no	no	no	no	no	no	no	no	no
	epigenetics...	for_subset	no	no	no	no	no	no	no	no	no	no
	echocardiography...	for_subset	no	no	no	for_subset	no	no	no	for_subset	no	for_subset
	cardiac MRI...	for_subset	no	no	no	no	no	no	no	no	no	no
	brain MRI...	for_subset	no	no	no	no	no	no	no	no	no	no
Outcomes	AF detection	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	AF characteristics e.g burden or number of episodes	for_subset	no	yes	yes	yes	no	no	for_subset	yes	yes	yes
	anticoagulation	yes	yes	yes	yes	yes	yes	no	yes	yes	yes	yes
	outcomes of stroke/mortality/etc ...	yes	yes	yes	?	yes	yes	no	no	no	yes	yes
	other data ...	yes	yes	yes	yes	yes	yes	yes	no	no	yes	yes
ECG raw data		yes	yes	yes	yes	?	yes	?	yes	no	no	no

Table 1: Overview of the data catalogue

3. Codebook

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
Information about location where the data was recorded, e.g. the country, region, and institution	consortium_group_id	integer	yes	yes	yes	yes	yes	yes	yes	?	yes	yes
	consortium_group_country	txt	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	consortium_group_region	txt	yes	yes	yes	yes	yes	yes	yes	yes	Yes	yes
	consortium_group_institution	txt	yes	yes	yes	yes	yes	yes	yes	yes	Yes	yes
	...											
	screeninvite_identification_type	integer	yes	yes	yes	yes	yes	no	yes	no	No	?
Information about recruitment procedures, e.g. how was the screenee identified, when was the screenee contacted, did the screenee accept invitation to screening or not	screeninvite_date_record	Date	yes	yes	yes	yes	yes	no	yes	yes	No	?
	screeninvite_result	integer	yes	yes	yes	yes	yes	no	yes	no	No	?
	screeninvite_failure_reason_id	integer	yes	yes	yes	yes	yes	no	?	no	No	?
	screeninvite_other...											
	...											
	screenstype_id	integer	yes	yes	yes	yes	yes	yes	yes	yes	Yes	Yes
Information about screening procedures, e.g. when and where was the screening performed, what was the type of screening	screenstype_name	txt	yes	yes	yes	yes	yes	yes	yes	yes	Yes	Yes
	screen_startdate	Date	yes	yes	yes	yes	yes	yes	yes	yes	Yes	Yes
	screen_enddate	Date	yes	yes	yes	yes	yes	yes	yes	yes	Yes	Yes
	screen_numberofscreenings	numeric	yes	yes	yes	yes	yes	yes	yes	yes	Yes	Yes
	screen_durationperscreening	numeric	yes	yes	yes	yes	yes	yes	yes	no	No	No
	screen_cumduration	numeric	yes	yes	yes	yes	yes	yes	yes	no	No	no
	screen_other...											
	...											
	screenresult_date_record	Date	yes	yes	yes	yes	yes	yes	yes	yes	Yes	Yes
Information about screening results, e.g. what did the screening	screenresult_negative	integer	yes	yes	yes	yes	yes	yes	yes	yes	No	Yes
	screenresult_af	integer	yes	yes	yes	yes	yes	yes	yes	yes	No	Yes

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
show, what was the consequence	screenresult_af_maxduration	numeric	yes	no	no	no	?	yes	no	no		no
	screenresult_af_burden	numeric	yes	?	?	?	?	yes	yes	no	No	no
	screenresult_af_symptoms	integer	yes	?	?	?	no	yes	yes	yes	No	no
	screenresult_af_heart_rate	numeric	yes	no	no	no	yes	yes	yes	yes	No	yes
	screenresult_aflut	integer	yes	no	no	no	no	yes	yes	no	No	yes
	screenresult_aflut_maxduration	numeric	yes	no	no	no	no	yes	yes	no	No	no
	screenresult_aflut_symptoms	integer	yes	no	no	no	no	yes	yes	yes	No	no
	screenresult_aflut_heartrate	numeric	yes	no	no	no	no	yes	yes	yes	No	yes
	screenresult_psyc	integer	no	yes	yes	yes	no	yes	?	for_subset	No	no
	screenresult_pvc	integer	no	no	no	no	no	yes	?	for_subset	No	no
	screenresult_brady	integer	yes	no	no	no	no	yes	no	no	No	No
	screenresult_tachy	integer	yes	no	no	no	no	yes	no	no	No	No
	screenconsequence_intervention	integer	yes	yes	yes	yes	yes	no	yes	yes	No	No
	screenconsequence_oac	integer	yes	yes	yes	yes	yes	no	yes	?	No	No
	screenconsequence_referral	integer	yes	yes	yes	yes	no	no	yes	?	No	No
	screenconsequence_other...										No	no
	...											
baseline basic information	basic_studyid	factor	yes	yes	yes	yes	yes	yes	yes	yes	No	yes
	basic_birthdate	Date	yes	yes	yes	yes	yes	yes	yes	yes	No	yes
	basic_sex	factor	yes	yes	yes	yes	yes	yes	yes	yes	Yes	yes
	basic_ethnicity	factor	yes	?	?	?	yes	yes	yes	no	Yes	no

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
	...											
	medhx_date_record	Date	yes	yes	yes	yes	yes	yes	yes	yes	No	yes
	medhx_previous_af	integer	yes	yes	yes	yes	yes	yes	yes	yes	Yes	yes
	medhx_hypertension	integer	yes	yes	yes	yes	yes	yes	yes	yes	Yes	yes
	medhx_diabetes	integer	yes	yes	yes	yes	yes	yes	yes	yes	Yes	yes
	medhx_heartfailure	integer	yes	yes	yes	yes	yes	yes	yes	yes	Yes	yes
	medhx_stroke	integer	yes	yes	?	?	yes	yes	yes	yes	Yes	yes
	medhx_tia	integer	yes	?	?	?	yes	yes	yes	yes	Yes	yes
	medhx_systemic_embolism	integer	yes	?	?	?	?	yes	no	yes	Yes	yes
	medhx_pad_untreated	integer	yes	?	?	?	?	yes	no	?	Yes	?
	medhx_pad_surgical	integer	yes	?	?	?	?	yes	no	?	No	?
	medhx_pad_pta	integer	yes	?	?	?	?	yes	no	?	No	?
	medhx_ami	integer	yes	?	?	?	?	yes	no	yes	Yes	yes
	medhx_pci	integer	yes	?	?	?	?	?	yes	yes	No	?
	medhx_cabg	integer	yes	?	?	?	?	?	no	yes	No	?
	medhx_pacemaker Brady	integer	yes	?	?	?	?	no	no	yes	No	yes
	medhx_pacemaker_cr	integer	yes	?	?	?	?	no	no	yes	No	yes
	medhx_icd	integer	yes	?	?	?	?	no	no	yes	No	?
	medhx_cath_abl	integer	yes	?	?	?	?	no	no	yes	No	?
	medhx_syncope	integer	yes	?	?	?	?	no	no	yes	No	?
	medhx_valvular_disease	integer	yes	?	?	?	?	yes	no	yes	No	?
	medhx_copd	integer	yes	?	?	?	?	yes	no	no	No	yes
	medhx_thyrotox	integer	yes	?	?	?	?	no	no	no	No	?
	medhx_chronickidney fail	integer	yes	?	?	?	?	no	no	?	No	?
	medhx_cancer	integer	yes	?	?	?	?	yes	no	?	No	?
	medhx_dementia	integer	yes	?	?	?	?	yes	no	?	No	?
	medhx_other...											

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
	...											
baseline prescribed drug information	drugs_date_record	Date	yes	yes	yes	yes	yes	yes	for_subset	yes	No	No
	drugs_anticoagulation	integer	yes	yes	yes	yes	N/A*	yes	for_subset	yes	No	No
	drugs_anticoagulation_type	integer	yes	yes	yes	yes	N/A*	yes	for_subset	yes	No	No
	drugs_anticoagulation_startdate	integer	yes	?	?	?	N/A*	yes	for_subset	yes	No	No
	drugs_betablocker	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_betablocker_type	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_betablocker_startdate	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_calciumantagonist	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_calciumantagonist_type	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_calciumantagonist_startdate	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_arb	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_arb_type	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_arb_startdate	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_ace	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_ace_startdate	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_aldosteronanta_gonist	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_aldosteronanta_gonist_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_aldosteronanta_gonist_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_arni	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_arni_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_arni_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_reninblocker	integer	yes	?	?	?	no	yes	no	yes	No	no

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
	drugs_reninblocker_type	integer	yes	?	?	?	no	yes	no	yes	No	no
	drugs_reninblocker_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_statin	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_statin_type	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_statin_startdate	integer	yes	?	?	?	no	yes	for_subset	yes	No	Nno
	drugs_pcsk9	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_pcsk9_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_pcsk9_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_thiazide	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_thiazide_type	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_thiazide_startdate	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_loopdiuretic	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_loopdiuretic_type	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_loopdiuretic_startdate	integer	yes	?	?	?	no	yes	for_subset	yes	No	No
	drugs_plateletinhibitor	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_plateletinhibitor_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_plateletinhibitor_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_plateletinhibitor2	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_plateletinhibitor2_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_plateletinhibitor2_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_sulfonylurea	integer	yes	?	?	?	no	yes	no	yes	No	No

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
	drugs_sulfonylurea_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_sulfonylurea_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_metformin	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_metformin_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_metformin_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_thiazolidinedione	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_thiazolidinedione_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_thiazolidinedione_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_dpp4	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_dpp4_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_dpp4_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_sglt2	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_sglt2_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_sglt2_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_glp1	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_glp1_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_glp1_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_insulin	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_insulin_type	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_insulin_startdate	integer	yes	?	?	?	no	yes	no	yes	No	No
	drugs_other...										No	
	...										No	
baseline medical check-up or inclusion visit information, e.g.	medcheck_date_record	Date	yes	yes	yes	yes	no	yes	yes	yes	No	yes
	medcheck_bp_type	integer	yes	no	no	?	no	?	yes	?	No	?

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
blood pressure, BMI, or results from 12-lead ECG etc...	medcheck_bp_sys	numeric	yes	no	no	yes	no	yes	yes	for_subset	no	yes
	medcheck_bp_dia	numeric	yes	no	no	yes	no	yes	yes	for_subset	No	yes
	medcheck_puse_rate	numeric	yes	no	no	no	no	yes	yes	yes	No	yes
	medcheck_height	numeric	yes	yes	yes	yes	yes	yes	yes	yes	No	no
	medcheck_weight	numeric	yes	yes	yes	yes	yes	yes	yes	yes	No	no
	medcheck_BMI	numeric	yes	yes	yes	yes	yes	no	yes	yes	No	no
	medcheck_waist_circumference	numeric	yes	no	no	no	no	no	yes	no	No	no
	medcheck_hip_circumference	numeric	yes	no	no	no	no	no	yes	no	No	no
	medcheck_nyha	integer	for_subset	no	no	no	no		no	yes	No	no
	medcheck_ecg_taken	integer	yes	yes	no	no	yes	yes	for_subset	yes	No	yes
	medcheck_ecg_date	Date	later	yes	no	no	yes	yes	for_subset	yes	No	yes
	medcheck_ecg_rr	numeric	later	yes	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_pvc	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_vc	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_delta_wave	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_rbbb	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_ahb	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_phb	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_lbbb_type	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_lbbb	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_axisdegress	numeric	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_p_dur	numeric	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_p_amp_lead	integer	later	no	no	no	?	?	for_subset	later	No	No

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
ECG variables	medcheck_ecg_p_am_p	numeric	later	no	no	no	?	?	for_subset	later	No	no
	medcheck_ecg_pq_dur	numeric	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_qrs_dur	numeric	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg Qt_dur	numeric	later	no	no	no	?	?	for_subset	later	No	No
	med-check_ecg_st_strain_Lead	integer	later	no	no	no	?	?	for_subset	later	No	No
	med-check_ecg_st_strain_mv	integer	later	no	no	no	?	?	for_subset	later	No	No
	med-check_ecg_t_strain_lead	integer	later	no	no	no	?	?	for_subset	later	No	No
	med-check_ecg_t_strain_mv	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_strain	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_lvh_ty_pe	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_ecg_lvh	integer	later	no	no	no	?	?	for_subset	later	No	No
	medcheck_other...										No	no
	...											No
baseline blood test information, e.g. NT-proBNP...	biochem_date_record	Date	yes	no	for_subset	yes	no	yes	for_subset	no	No	No
	biochem_hgb	numeric	no	no	no	no	no	for_subset	for_subset	no	No	No
	biochem_sodium	numeric	no	no	no	no	no	for_subset	for_subset	no	No	No
	biochem_potassium	numeric	no	no	no	no	no	for_subset	for_subset	no	No	No

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
biochemical markers	biochem_creatinine	numeric	yes	no	no	no	no	for_subset	for_subset	no	No	No
	biochem_tnt	numeric	yes	no	no	no	no	yes	for_subset	no	No	No
	biochem_tni	numeric	yes	no	no	no	no	no	for_subset	no	No	No
	biochem_ntprobnp	numeric	yes	no	for_subset	yes	no	yes	no	no	No	No
	biochem_crp	numeric	yes	no	no	no	no	no	no	no	No	No
	biochem_other...										No	No
	...											
baseline socioeconomics information, e.g. income and education...	socec_date_record	Date	yes	?	?	?	no	yes	no	yes	No	no
	socec_monthly_income	numeric	no	?	?	?	no	No	no	no	No	No
	socec_monthly_income_countryadjust	numeric	no	?	?	?	no	No	no	no	No	No
	socec_highest_education_achieved	integer	yes	?	?	?	no	yes	no	no	No	No
	socec_residence_type	integer	no	?	?	?	no	no	no	no	No	No
	socec_neighborhood_type	integer	no	?	?	?	no	no	no	?	No	No
	socec_region_type	integer	no	yes	yes	yes	no	no	no	?	No	No
	socec_other...										No	no
	...										No	
	behav_date_record	Date	yes	?	?	?	no	yes	yes	yes	No	No
baseline behavioural information, e.g. alcohol consumption, smoking habits, diet, physical activity...	behav_weekly_alc_consumption	numeric	yes	?	?	?	no	no	yes	yes	No	No
	behav_smoker_status	integer	yes	?	?	?	no	yes	yes	yes	No	No
	behav_smoking_cess_year	Date	yes	?	?	?	no	no	yes	yes	No	No
	behav_smoking_pack_years	numeric	yes	?	?	?	no	no	yes	yes	No	No
	behav_dietary_type	integer	no	?	?	?	no	no	no	no	No	No
	behav_activity_type	integer	no	?	?	?	no	no	no	no	No	No
	behav_other...										No	
	...										No	

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
baseline quality of life information, e.g. scores from validated questionnaires such as EQ-5D-5L	qol_date_record	Date	yes	?	?	?	for_subset	no	no	no	No	No
	qol_eq5d5l	numeric	yes	?	?	?	for_subset	no	no	no	No	No
	qol_sf36	numeric	yes	?	?	?	no	no	no	no	No	No
	qol_sf8	numeric	no	?	?	?	for_subset	no	no	no	No	No
	qol_other...										No	no
	...										No	
baseline echocardiographic information	imaging_echo_date_record	Date	for_subset	for_subset	?	?	no	no	for_subset	no	No	No
	imaging_echo_...	?	for_subset	for_subset	?	?	no	no	for_subset	no	No	No
	...										No	
baseline cardiac MRI information	imaging_cardiac_mri_date_record	Date	for_subset	?	?	?	no	no	no	no	No	No
	imaging_cardiac_mri_...	?	for_subset	?	?	?	no	no	no	no	No	No
	...									no	No	
baseline brain MRI information	imaging_brain_mri_date_record	Date	for_subset	?	?	?	no	no	no	no	No	No
	imaging_brain_mri_...	?	for_subset	?	?	?	no	no	no	no	No	no
	...										No	
baseline cognitive test information, e.g. scores from validated tests, such as MMSE	cognition_date_record	Date	yes	?	?	?	no	no	no	no	No	No
	cognition_mmse	numeric	no	?	?	?	no	no	no	no	No	No
	cognition_moca	numeric	yes	?	?	?	no	no	no	no	No	no
	...											
baseline genetic information	dna_...	?	yes	?	?	?	no	no	no	no	No	No
	mirna_...	?	for_subset	?	?	?	no	no	no	no	No	no
	...										No	

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
follow-up information about clinical end-points, e.g. stroke...	outcomes_stroke_date	Date	later	?	?	?	later	yes	no	yes	No	No
	outcomes_stroke_adjudicated	integer	later	?	?	?	later	for_subset	no	yes	No	No
	outcomes_stroke_type	integer	later	?	?	?	later	For_subset	no	yes	No	No
	outcomes_tia_date	Date	later	?	?	?	later	no	no	yes	No	No
	outcomes_tia_adjudicated	integer	later	?	?	?	later	For_subset	no	yes	No	No
	outcomes_tia_type	integer	later	?	?	?	later	no	no	yes	No	no
	outcomes_death_date	Date	later	?	?	?	later	For_subset	no	yes	No	No
	outcomes_death_adjudicated	integer	later	?	?	?	later	For_subset	no	yes	No	No
	outcomes_death_type	integer	later	?	?	?	later	no	no	yes	No	No
	outcomes_majorbleeding_date	Date	later	?	?	?	later	no	no	yes	No	No
	outcomes_majorbleeding_adjudicated	integer	later	?	?	?	later	no	no	yes	No	No
	outcomes_majorbleeding_type	integer	later	?	?	?	later	no	no	yes	No	No
	outcomes_cied_date	Date	later	?	?	?	no	no	no	yes	No	No
	outcomes_cied_type	integer	later	?	?	?	no	no	no	yes	No	no
	outcomes_other...										No	
	...											
follow-up information about prescribed drugs after the screening, e.g. oac...	drugs2_anticoagulation_date	Date	yes	yes	yes	yes	later	yes	for_subset	yes	No	For subset
	drugs2_anticoagulation	integer	yes	yes	yes	yes	later	yes	for_subset	yes	No	For subset
	drugs2_anticoagulation_type	integer	yes	?	?	yes	later	yes	for_subset	yes	No	For subset
	drugs2_other...	integer	yes	?	?	?	no	yes	for_subset	yes	No	For subset
	...										No	

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
follow-up information about medical check-up	medcheck2_bp_date	Date	yes	?	?	?	no	no	no	yes	No	No
	medcheck2_bp_type	integer	yes	?	?	?	no	no	no	yes	No	No
	medcheck2_bp_sys	numeric	yes	?	?	?	no	no	no	yes	No	No
	medcheck2_bp_dia	numeric	yes	?	?	?	no	no	no	yes	No	No
	medcheck2_puse_rate	Date	yes	?	?	?	no	no	no	yes	No	No
	medcheck2_puse_rate	numeric	yes	?	?	?	no	no	no	yes	No	No
	medcheck2_measures_date	Date	yes	?	?	?	no	no	no	yes	No	no
	medcheck2_height	numeric	yes	?	?	?	no	no	no	yes	No	No
	medcheck2_weight	numeric	yes	?	?	?	no	no	no	yes	No	No
	medcheck2_BMI	numeric	yes	?	?	?	no	no	no	yes	No	no
	medcheck2_waist_circumference	numeric	yes	?	?	?	no	no	no	yes	No	no
	medcheck2_hip_circumference	numeric	yes	?	?	?	no	no	no	yes	No	no
	medcheck2_nyha_date	Date	yes	?	?	?	no	no	no	yes	No	no
	medcheck2_nyha	integer	yes	?	?	?	no	no	no	yes	No	no
	medcheck2_ecg_takeln	integer	yes	?	?	?	no	no	no	no	No	no
	medcheck2_ecg_date	Date	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_rr	numeric	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_pvc	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_vc	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_delta_wave	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_rbbb	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_ahb	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_phb	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_lbbb_type	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_lbbb	integer	later	?	?	?	no	no	no	no	No	No

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
	medcheck2_ecg_axisd_egrees	numeric	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_p_dur	numeric	later	?	?	?	no	no	no	no	No	No
	med-check2_ecg_p_amp_lead	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_p_amp	numeric	later	?	?	?	no	no	no	no	No	no
	medcheck2_ecg_pq_dur	numeric	later	?	?	?	no	no	no	no	No	no
	medcheck2_ecg_qrs_dur	numeric	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg Qt_dur	numeric	later	?	?	?	no	no	no	no	No	No
	med-check2_ecg_st_strain_lead	integer	later	?	?	?	no	no	no	no	No	No
	med-check2_ecg_st_strain_mv	integer	later	?	?	?	no	no	no	no	No	No
	med-check2_ecg_t_strain_lead	integer	later	?	?	?	no	no	no	no	No	No
	med-check2_ecg_t_strain_mv	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_stRAIN	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_lvh_type	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_ecg_lvh	integer	later	?	?	?	no	no	no	no	No	No
	medcheck2_other...										No	no
	...											
	biochem2_hgb_date	Date	no	?	?	?	no	no	no	no	No	No

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
follow-up information about blood tests	biochem2_hgb	numeric	no	?	?	?	no	no	no	no	No	No
	biochem2_sodium_da te	Date	no	?	?	?	no	no	no	no	No	No
	biochem2_sodium	numeric	no	?	?	?	no	no	no	no	No	No
	biochem2_potassium_ _date	Date	no	?	?	?	no	no	no	no	No	No
	biochem2_potassium	numeric	no	?	?	?	no	no	no	no	No	No
	biochem2_creatinine_ _date	Date	no	?	?	?	no	no	no	no	No	No
	biochem2_creatinine	numeric	no	?	?	?	no	no	no	no	No	no
	biochem2_tnt_date	Date	no	?	?	?	no	no	no	no	No	No
	biochem2_tnt	numeric	no	?	?	?	no	no	no	no	No	No
	biochem2_tni_date	Date	no	?	?	?	no	no	no	no	No	No
	biochem2_tni	numeric	no	?	?	?	no	no	no	no	No	No
	biochem2_ntprobnp_ _date	Date	no	?	?	?	no	no	no	no	No	No
	biochem2_ntprobnp	numeric	no	?	?	?	no	no	no	no	No	No
	biochem2_crp_date	Date	no	?	?	?	no	no	no	no	No	No
	biochem2_crp	numeric	no	?	?	?	no	no	no	no	No	No
	biochem2_other...										No	No
	.											No
follow-up information about quality of life, most recent- in the LOOP study, these var- iables have been col- lected every year or three years after the initial screening	qol2_date_record	Date	yes	?	?	?	for_subs et	no	no	no	No	No
	qol2_eq5d5l	numeric	yes	?	?	?	for_subs et	no	no	no	No	No
	qol2_sf36	numeric	yes	?	?	?	no	no	no	no	No	No
	qol2_sf8	numeric	no	?	?	?	for_subs et	no	no	no	No	No
	qol2_other...										No	No
	...											
follow-up information about cognitive tests, most recent - in the	cognition2_date_reco rd	Date	yes	?	?	?	no	no	no	no	No	No
	cognition2_mmse	numeric	yes	?	?	?	no	no	no	no	No	No

Variable group	Variable name	Data type	LOOP	STROKE STOP pilot	STROKE STOP 1	STROKE STOP 2	SAFER	AFRICAT	Irish Opportunistic Screening study	AF-Stroke	RITMO-OK	D ₂ AF
LOOP study, these variables have been collected every year or three years after the initial screening	cognition2_moca	numeric	yes	?	?	?	no	no	no	no	No	no
	...											
follow-up information about echocardiography, most recent	imaging_echo2_date_record	Date	for_subset	?	?	?	no	no	no	no	No	No
	imaging_echo2_...	?	for_subset	?	?	?	no	no	no	no	No	no
	...											
follow-up information about cardiac mri, most recent	imaging_cardiac_mri2_date_record	Date	for_subset	?	?	?	no	no	no	no	No	No
	imaging_cardiac_mri2_...	?	for_subset	?	?	?	no	no	no	no	No	No
	...											No
follow-up information about brain mri, most recent	imaging_brain_mri2_date_record	Date	for_subset	?	?	?	no	no	no	no	No	No
	imaging_brain_mri2_...	?	for_subset	?	?	?	no	no	no	no	No	no

*Being on anticoagulation at baseline is exclusion criterion for SAFER

Table 2: Codebook of the data catalogue