

INDIA ECG Study

OBSERVATION PLAN

Screening For Electrocardiographic (ECG) Abnormalities In Outpatients With Cardio-Metabolic Risk Factors Using Portable ECG Device

Study Short Title	INDIA ECG STUDY
Study No.	ERIS/OS/22/001
Version No.	00
Date	January 2022

Confidentiality Statement

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OBSERVATION PLAN

Title: Screening For Electrocardiographic (ECG) Abnormalities In Outpatients With Cardio-Metabolic Risk Factors Using Portable ECG Device

Short Title: INDIA ECG Study

Sponsor: Eris Lifesciences Ltd.

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Study Principal Investigator: Dr. Jamshed Dalal
(Details Awaited)

Disclaimer:

Please note that this exercise of real-world data collection is merely a non-interventional study (not a clinical study/trial or biomedical research) where prevalent practice patterns are observed in a naturalistic setting, the way it happens in routine/typical clinical practice, and the experiential data of such doctors is captured with his/her consent and later analyzed in a pooled, anonymised manner, respecting patient confidentiality (data privacy clause is signed by the patient). The remuneration to the doctor per patient is of nominal value and there is a cap on how many patients can be enrolled by each doctor. Hence it does not fall within the purview of the New Drugs and Clinical Trials Rules 2019 or the latest ICMR Biomedical Research guidelines. Clinical Trials Registry India (CTRI) registration will be done from a publication perspective, and in this way, the regulator will also be intimated.

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Sponsor's Approval

I, on behalf of Eris Lifesciences Ltd, India, have read and understood this proposal and hereby approve the same. I agree to comply with all requirements regarding the obligations of the sponsor and all other pertinent requirements of the Declaration of Helsinki (Ethical principles for medical research involving human subjects, revised by the 64th WMA General Assembly, Brazil, October 2013) and ICH-GCP E6 (R2) guidelines along with the local regulatory requirements of GCP for Clinical Research in India (2004, CDSCO), New Drugs and Clinical Trial Rules (2019) and ICMR's National Ethical Guidelines for Biomedical and Health Research involving Human Participants (2017).

Mr. V S Joshi (President, Medical)
Eris Lifesciences Ltd.,
Shivarth Ambit, Plot No. 142/2, Ramdas
Road, Off SBR, Near Swati Bungalows,
Bodakdev, Ahmedabad – 380054,
Gujarat.

Dated

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Principle Investigator's Approval

I, the undersigned, have read and understood this proposal and hereby agree to conduct the study in accordance with this complying all requirements regarding the obligations of investigators and all other pertinent requirements of the Declaration of Helsinki (Ethical principles for medical research involving human subjects, revised by the 64th WMA General Assembly, Brazil, October 2013) and ICH-GCP E6 (R2) guidelines along with the local regulatory requirements of GCP for Clinical Research in India (2004, CDSCO), New Drugs and Clinical Trial Rules (2019) and ICMR's National Ethical Guidelines for Biomedical and Health Research involving Human Participants (2017).

I understand that the information in this study observation plan is confidential and should not be disclosed, other than to those directly involved in the execution or the ethical review of the study, without written authorization from the sponsor.

I understand that the sponsor/s may decide to suspend or prematurely terminate the study at any time for whatever reason; such a decision will be communicated to me in writing.

Name & Signature of Principal Investigator

Date

INDIA ECG Study

Joint Principle Investigator's Approval

I, the undersigned, have read and understood this proposal and hereby agree to conduct the study in accordance with this complying all requirements regarding the obligations of investigators and all other pertinent requirements of the Declaration of Helsinki (Ethical principles for medical research involving human subjects, revised by the 64th WMA General Assembly, Brazil, October 2013) and ICH-GCP E6 (R2) guidelines along with the local regulatory requirements of GCP for Clinical Research in India (2004, CDSCO), New Drugs and Clinical Trial Rules (2019) and ICMR's National Ethical Guidelines for Biomedical and Health Research involving Human Participants (2017).

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I understand that the sponsor/s may decide to suspend or prematurely terminate the study at any time for whatever reason; such a decision will be communicated to me in writing.

Name & Signature of Joint Principal Investigator

Date

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Investigator's Approval

I, the undersigned, have read and understood this proposal and hereby agree to conduct the study in accordance with this complying all requirements regarding the obligations of investigators and all other pertinent requirements of the Declaration of Helsinki (Ethical principles for medical research involving human subjects, revised by the 64th WMA General Assembly, Brazil, October 2013) and ICH-GCP E6 (R2) guidelines along with the local regulatory requirements of GCP for Clinical Research in India (2004, CDSCO), New Drugs and Clinical Trial Rules (2019) and ICMR's National Ethical Guidelines for Biomedical and Health Research involving Human Participants (2017).

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Name & Signature of Investigator

Date

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LIST OF ABBREVIATIONS

Sr. No.	Abbreviation	Full Form
1.	ECG	Electrocardiogram/ Electrocardiography
2.	CVD	Cardiovascular Diseases
3.	ASCVD	Atherosclerotic Cardiovascular Diseases
4.	CAD	Coronary Artery Disease
5.	MI	Myocardial Infarction
6.	PAD	Peripheral Artery Disease
7.	OPD	Out Patient Department
8.	CRF	Case Record Form

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OBSERVATION PLAN SYNOPSIS:

STUDY TITLE	Screening For Electrocardiographic (ECG) Abnormalities In Outpatients With Cardio-Metabolic Risk Factors Using Portable ECG Device
STUDY SHORT TITLE	India ECG Study
STUDY RATIONALE	<p>India is a rapidly developing country; this has led to a rapid change from reduction in burden of communicable diseases to an increase in burden of non-communicable diseases. In India, Cardiovascular diseases (CVDs) have become the major cause of mortality. When we compare the people of India with Caucasians, the CVD affects 10 year earlier.^[2,3]</p> <p>Traditional risk factors which are responsible for such high CVD epidemic in India include dietary factors, smoking, obesity, diabetes, hypertension, aging population, sedentary lifestyle, family history of CVD etc.^[1]</p> <p>Majority of patients at high CV risk have no symptoms until manifestation of first major cardiovascular event such as sudden cardiac arrest, myocardial infarction, or arrhythmia. Considering the silent progression of cardiovascular disease, early diagnosis and treatment is critical.^[4,6]</p> <p>Besides biochemical and physiological factors, electrocardiogram [ECG] should be carried out not only in the cases of a fatal danger (e.g. Cardiac chest pain) but also in the cases of asymptomatic high risk patients with or without cardiovascular or heart disease. Early detection of ECG abnormalities is necessary in patients with high risk CVD and in patients without overt disease before occurrence of serious and irreversible damage. ^[7,8,9] Systematic global CVD risk assessment is recommended in individuals with any major vascular risk factor (i.e. family history of premature CVD, Familial Hypercholesterolemia, CVD risk factors such as smoking, arterial hypertension, DM, raised lipid level, obesity, or comorbidities increasing CVD risk)^[10].</p> <p>The 12-lead ECG remains the gold standard, however, it can be difficult to perform for a variety of reasons including dedicated and trained staff, a private clinic environment, time required, cleaning and setting up network of cables (4 limb electrodes and 6 pericardial electrodes) and busy OPD. ^[7] Thus, there is a need for an ECG device with good sensitivity and specificity, which is easy to use, less time consuming and less tedious.</p>

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	<p>When discussed individually with physicians, each agreed that the cardio-metabolically deranged patients routinely should be subjected to ECG monitoring. Hence, we performed a survey among 1863 physicians in India in which they were asked about their current practices of using electrocardiographic (ECG) assessment in diagnosis and monitoring of their cardio metabolic patients.</p> <p>Outcome of the survey showed that while 90% of physicians agreed to the necessity of doing ECG of cardio-metabolically deranged patients, only 61% of all physicians could perform ECG screening in less than 40% of cardio-metabolic patients. According to them there was no availability of ECG device (35.8%), it was too time consuming (40.2%) and or there was lack of trained staff (27.5%). Majority of physicians (69.7%) agreed in use of point of care ECG device which can be a solution for more screening of cardio metabolically deranged patients whether symptomatic or asymptomatic. According to the survey 88.7% physicians would appreciate if such portable handheld ECG device was made available to facilitate screening in their practice.¹²</p> <p>Kardia Mobile 6L (First and only FDA cleared device) is low-cost, compact and handheld ECG device is now used increasingly world over by physicians and patients for screening and diagnostic purpose. This device has been validated in clinical practice and showed a high level of agreement and strong co-relation with 12-lead ECG device.^[6,13] For the purpose of the study, we make available Kardia Mobile 6L device to the study participating physicians to enable them to subject their cardio metabolically deranged patients to ECG in their clinical practice.</p>
STUDY OBJECTIVE	Screening for ECG abnormalities in cardio-metabolically deranged patients in OPD practice
INCLUSION CRITERIA	<ul style="list-style-type: none"> • Patients with Cardio Metabolic Risk factors (Diabetes, Hypertension, Dyslipidaemia, Obesity, etc.) • Subjects willing to provide written informed consent form
EXCLUSION CRITERIA	<ul style="list-style-type: none"> • Subjects with implanted devices like pacemaker, external cardiac defibrillator • Pregnant women
STUDY DESIGN	Multicenter, Observational, Prospective, Cross-sectional, Non-Interventional Study
NUMBER OF SUBJECTS	5,00,000 subjects

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NO. OF SITES	8000
STUDY DURATION	12 months
STUDY ENDPOINTS	Primary Endpoints: <ul style="list-style-type: none">• Prevalence and type of ECG abnormalities among study cohort• Co-relation of ECG abnormalities with medical history, lifestyle factors and Cardio metabolic risk factors.
DATA AND SAFETY MONITORING PLAN	<p>Because of the observational design of the study, the subjects will remain under control of their treating physician. All the data generated during the study will be captured directly into the electronic case records form (i.e. e-CRF) to prevent data entry errors. Data quality management will be the responsibility of Eris Lifesciences Limited.</p> <p>The principal investigator (PI) will have access to all data during the study.</p>
Statistical analysis	Descriptive statistics will be utilized to describe the characteristics of study participants. Sociodemographic and comorbid factors will be compared across different age groups using Fisher exact tests. Prevalence rate of ECG abnormalities will be calculated in a standard manner with accompanying 95% confidence intervals.

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1. STUDY INFORMATION

1.1. INTRODUCTION:

Cardiovascular disease (CVD) remains the leading cause of death and premature death worldwide, despite advances in the availability of effective and safe prevention strategies around the world. Of the 18.6 million CVD deaths globally in 2019, 58% have been in Asia.¹

India is a rapidly developing country; this has led to a rapid change from reduction in communicable diseases to an increase in non-communicable diseases. In India, Cardiovascular diseases (CVDs) have become the major cause of mortality. When we compare the people of India with Europeans, the CVD affects 10 year earlier^{2,3}. For example, before the age of 70 years 52% death occurs in India as compared to only 23% in Western populations.² Traditional risk factors which are responsible for such high CVD epidemics in India includes dietary factor, smoking, obesity, diabetes, hypertension, aging population, sedentary lifestyle, family history of CVD etc.¹ from the Global Burden of Disease study show an age-standardized CVD death rate of 272 per 100,000 population in India, which is well above the global average of 235.³

Majority of patients have no symptoms until a first major cardiovascular event such as sudden cardiac arrest, myocardial infarction, or arrhythmia. A major contributing factor appears to be the inability to detect these cardiac disorders until the end of their natural history, thus missing therapeutic window where maximum benefit could be offered with early intervention. Assessment of aforementioned traditional risk factors may help to predict CV disease, but cannot detect who is at the risk,⁴ for instance in the elderly population, the prediction of coronary heart disease (CHD) by traditional risk factors is less accurate than in middle-aged adults.⁵ Considering the silent progression of cardiovascular disease and the requirement of specific skills for diagnosis and treatment, early diagnosis and treatment related modalities are extremely limited in primary health care.⁶

Besides biochemical and physiological factors, electrocardiogram [ECG] should be carried out not only in the cases of a fatal danger (e.g. Cardiac chest pain) but also in the cases of asymptomatic high risk patients with or without cardiovascular or heart disease.⁷ Screening proactively with ECG may reveal unrecognized ECG abnormalities in large number of patients. Early detection of ECG abnormalities is necessary in patients with high risk CVD and in patients without overt disease before occurrence of serious and irreversible damage.^{8,9} Systematic global CVD risk assessment is recommended in individuals with any major vascular risk factor (i.e. family history of premature CVD, FH, CVD risk factors such as smoking, arterial hypertension, DM, raised lipid level, obesity, or comorbidities increasing CVD risk (2021 ESC guideline).¹⁰

As per prospective registry study done at UK, a high prevalence of ECG abnormalities (31.8%) was present from the selected population (n=4739). Thus, ECG gives the capacity to become aware of those abnormalities and offers in advance intervention and treatment, and in all likelihood improve cardiovascular outcome.^{4,7}

The 12-lead ECG remains the gold standard, however, it can be difficult to perform for a variety of reasons including dedicated and trained staff, a private clinic environment, time required, cleaning and setting up network of cables (4 limb electrodes and 6 pericardial electrodes) and busy OPD.¹¹ Thus, there is a need for an ECG device with good sensitivity and specificity, which is easy to use, less time consuming and less tedious.

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When discussed individually with physicians, each agreed that the cardio-metabolically deranged patients routinely should be subjected to ECG monitoring. Hence, we performed a survey among 1863 physicians in India in which they were asked about their current practices of using electrocardiographic (ECG) assessment in diagnosis and monitoring of their cardio metabolic patients.

Outcome of the survey showed that while 90% of physicians agreed to the necessity of doing ECG of cardio-metabolically deranged patients, only 61% of all physicians could perform ECG screening in less than 40% of cardio-metabolic patients. According to them there was no availability of ECG device (35.8%), it was too time consuming (40.2%) and or there was lack of trained staff (27.5%). Majority of physicians (69.7%) agreed in use of point of care ECG device which can be a solution for more screening of cardio metabolically deranged patients whether symptomatic or asymptomatic. According to the survey 88.7% physicians would appreciate if such portable handheld ECG device was made available to facilitate screening in their practice.¹²

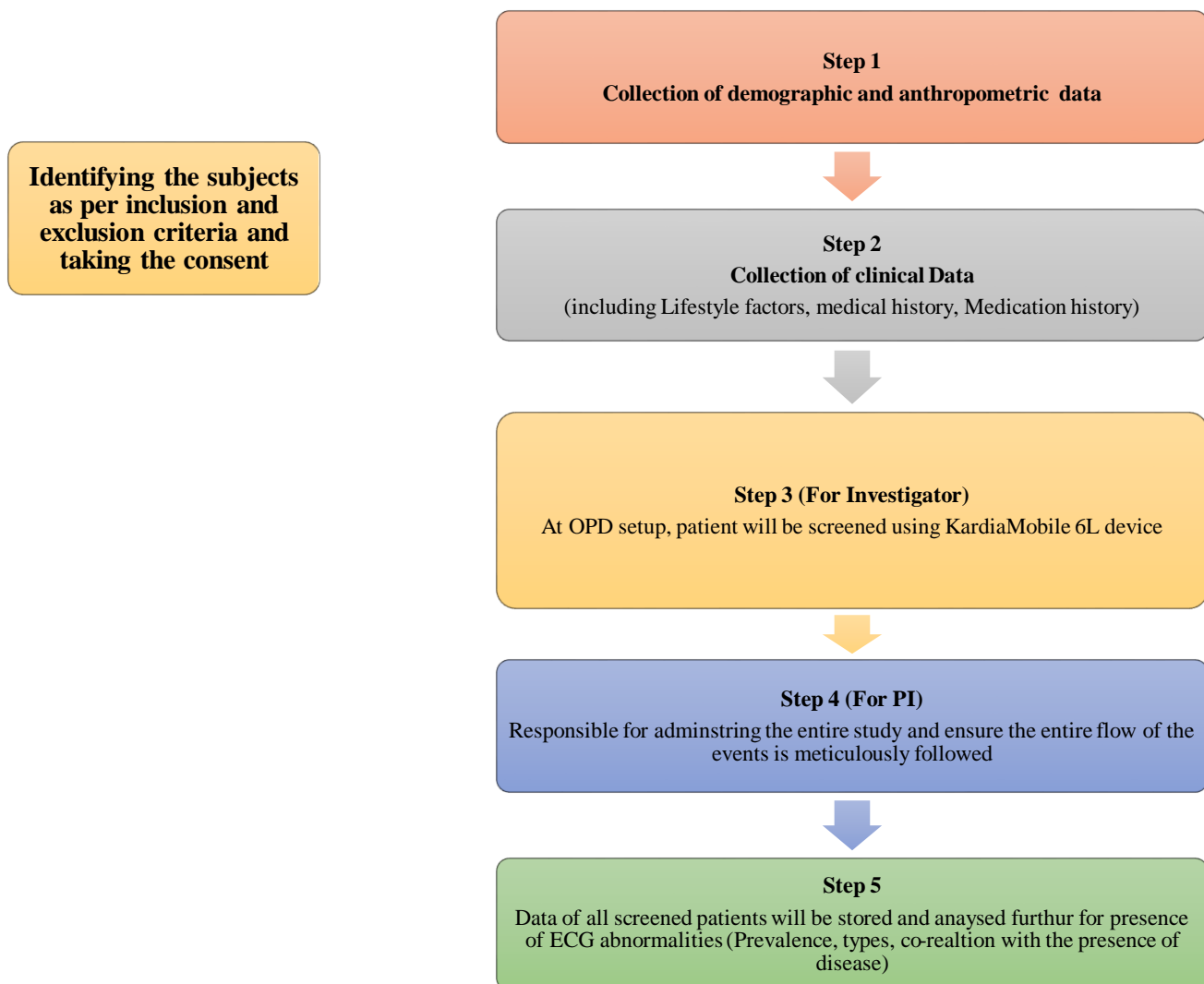
Kardia Mobile 6L (First and only FDA cleared device) is low-cost, compact and handheld ECG device is now used increasingly world over by physicians and patients for screening and diagnostic purpose. This device has been validated in clinical practice and showed a high level of agreement and strong co-relation with 12-lead ECG device.^[11, 13,14] . The same is also been validated for AF in India.¹⁵ For the purpose of the study, we make available Kardia Mobile 6L device to the study participating physicians to enable them to subject their cardio metabolically deranged patients to ECG in their clinical practice

2. **STUDY OBJECTIVES:** Screening for ECG abnormalities in cardio-metabolically deranged patients in OPD practice

3. METHODOLOGY

Study Design: Multicenter, Observational, Prospective, Cross-sectional, Non-Interventional Study

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4. CONSENT OF THE INVESTIGATOR:

A written consent of the subject/participant will be taken before the initiation of the study. If the participant is incapable of giving an informed consent, the participant's legally acceptable representative will sign the consent. If the participant or his legally acceptable representative is unable to read/write, an impartial witness will be required who will be present during the entire informed consent discussion and will also sign the consent form. The formal consent of a participant, using the IEC approved consent form, will be obtained before that participant undergoes screening or any study procedure.

Before requesting such consent, the investigator will provide all essential information for participants to make an informed decision about their participation in a language that is non-

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technical and understandable by the participant and/or his/her legally acceptable representative.

5. INCLUSION & EXCLUSION CRITERIA:

5.1 INCLUSION CRITERIA:

- Patients with Cardio metabolic Risk factors (Diabetes, Hypertension, Dyslipidaemia, Obesity, etc.)
- Subjects willing to provide written informed consent form

5.2 EXCLUSION CRITERIA:

- Subjects with Implanted devices like pacemaker, external cardiac defibrillator
- Pregnant women

6. STUDY PROCEDURES

6.1.1 Reasons of ECG monitoring:

Reasons	Tick Here(✓)
Cardio-metabolically Deranged Patients (asymptomatic)	
Or (Symptomatic)	
Chest pain	
Syncope	
Palpitation	
Shortness of breath	
Fatigue or Weakness	
Dizziness or Light headedness	
Weakness or Fatigue	
Nocturnal Symptoms (Palpitation, Shortness of Breath, Chest Pain)	
Post Prandial Symptoms like chest pain	
Diaphoresis (excessive sweating)	
Any other (Please Specify)	

6.1.2 Device

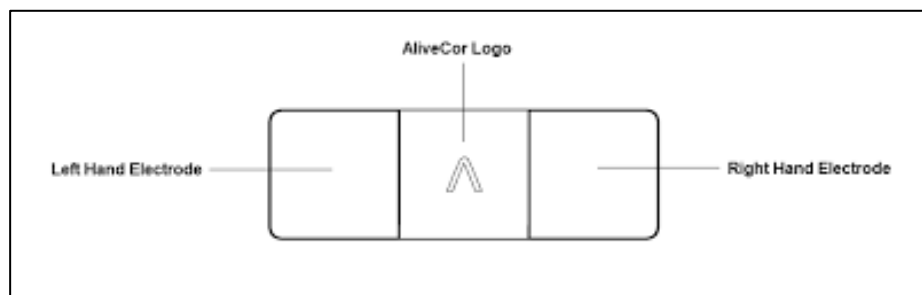
- KardiaMobile 6L is the world's 1st FDA-cleared six-lead personal ECG device.
- Take 6-lead ECGs at home in only 30 seconds
- Detects the 3 most common heart arrhythmias: atrial fibrillation, bradycardia, tachycardia 6-lead ECG. Can detect 28 different types of arrhythmias using EK-12 (GE algorithms (as shown in table below):

EK12 Diagnostic Outputs

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1. Sinus Rhythm with 1st degree AV block	15. Consecutive PACs
2. Sinus Rhythm with 2nd degree AV block	16. Ventricular Bigeminy
3. Marked Sinus Bradycardia	17. Atrial Bigeminy
4. Junctional Rhythm	18. Inverted T-wave
5. Atrial Fibrillation with Rapid Ventricular Response	19. Normal QRS Frontal Axis**
6. Atrial Flutter (with AV Block)**	20. Left Axis Deviation**
7. Ectopic Atrial Rhythm	21. Right Axis Deviation**
8. Idioventricular Rhythm	22. RBBB**
9. Wide QRS Tachycardia**	23. LBBB**
10. Occasional PVCs	24. Hemiblocks**
11. Occasional PACs	25. Incomplete LBBB**
12. Frequent PVCs	26. Incomplete LBBB**
13. Frequent PACs	27. WPW
14. Consecutive PVCs	28. Inferior Ischemia/Infarction**
** Possible only with 6L	

- Gives more detailed heart information



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6.1.3 Rules of monitoring

- Download Kardia app on your android or apple device
- Signup with the details.
- Touch the lefthand and right hand electrode to activate the device and connect with Bluetooth of your phone/tablet.
- Place your phone or tablet on a table in front of you.
- Hold the KardiaMobile 6L in your hands with the "A" symbol facing you and pointing up.
- Now you need to have the single bottom electrode make contact with the bare skin on your left knee or left ankle.
- At this point the Kardia application will begin your recording.
- Recorded ECG can be saved and shared from ECG history from the device.

6.1.4 What not to do?

- Do not use the electrode on the portion of the body with too much body fat, body hair or very dry skin, as successful recording may not be possible.
- Do not store in extremely hot, cold, wet or bright conditions.
- Do not take recordings if electrodes are dirty. Clean them first
- Do not expose the device to excessive liquid
- Do not use it while charging your phone
- Do not drop or bump with excessive force
- Do not use with cardiac pacemaker, ICDs, or other implanted electronic device.

Do not use in close proximity with other electrical and electronic equipment

7. STUDY EVALUATIONS AND MEASUREMENTS

7.1 Parameters

The parameters like patient's demographic details, vital parameters, life style factors, medical history, medication history, ECG and whatever the investigator captures as part of routine clinical practice will be recorded.

7.2 Laboratory Investigation

Not required

7.3 Screening and Monitoring Evaluations

It must be aimed to obtain the following subject data -Patients' demographic data, medical record review, and investigator's interpretation.

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7.4 Investigator's Interpretation:

7.5 STUDY ENDPOINTS:

Primary Endpoints:

- Prevalence and type of ECG abnormalities among study cohort
- Co-relation of ECG abnormalities with medical history, lifestyle factors and Cardio metabolic risk factors

8. STATISTICAL CONSIDERATION

Descriptive statistics will be utilized to describe the characteristics of study participants. Sociodemographic and comorbid factors will be compared across different age groups using Fisher exact tests. Prevalence rates of ECG abnormalities will be calculated in a standard manner with accompanying 95% confidence intervals.

9. CLINICAL ADVERSE EVENTS:

The present proposal entails an observational, non-interventional study which means that AEs are most unlikely caused by the design of the study.

10. STUDY ADMINISTRATION

10.1 Data Collection And Management

The study case report form (CRF) is the primary data collection instrument for the study. All data requested on the CRF must be recorded. All missing data must be explained. If a space on the CRF is left blank because the procedure was not done or the question was not asked, write "N/D". If the item is not applicable to the individual case, write "N/A". All entries should be printed legibly. If any entry error has been made, to correct such an error, draw a single straight line through the incorrect entry and enter the correct data above it. All such changes must be initialled and dated. DO NOT ERASE OR WHITE OUT ERRORS. For clarification of illegible or uncertain entries, print the clarification above the item, then initial and date it. Electronic form of case report forms (e-CRFs) will be used as and when required.

10.2 Data Sources (If Applicable, For Existing Records)

Source data is all information, original records of clinical findings, observations, or other activities in a study necessary for the reconstruction and evaluation of the study, Source data are contained in source documents. Examples of these original documents, and data records includes (but not limited to): hospital records, clinical and office charts, laboratory notes, memoranda, subject's diaries or evaluation checklists, pharmacy dispensing records, recorded data from automated instruments, copies or transcriptions

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certified after verification as being accurate and complete, microfiches, photographic negatives, microfilm or magnetic media, x-rays, subject files, and records kept at the pharmacy, at the laboratories, and at medico-technical departments involved in the non-interventional study.

10.3 Confidentiality

Information that can identify study subjects will be kept confidential and managed according to the requirements of the applicable law(s). Subject authorization to collect protected health information (PHI) will be a part of informed consent process. Data privacy clause will be the main aspect of such real world study ICFs.

In the event that a subject revokes authorization to collect or use PHI, the investigator, by regulation, retains the ability to use all information collected prior to the revocation of subject authorization. For subjects that have revoked authorization to collect or use PHI, attempts should be made to obtain permission to collect at least safety information at the end of their scheduled study period.

11. REGULATORY AND ETHICAL CONSIDERATIONS

11.1 Data Safety Monitoring Plan

This study will be monitored sufficiently to ensure that study is conducted, recorded and reported in accordance to approved observation plan, GCP, institutional policies and locally applicable regulatory requirements. The investigator will allocate adequate time for such monitoring activities. The Investigator will also ensure that the monitor or other compliance or quality assurance reviewer is given access to all the above noted study-related documents.

11.2 Risk Assessment

Since the study is designed as observational, non-interventional study, the estimated risk for participants is not greater than minimal risk

11.2.1 Potential Benefits Of Study Participation

As this is an observational study using ECG, there will be direct benefits to the study participants for early detection of CVD, if any. Further it will be confirmed with expert in the field of cardiology. Additionally, data generated will be useful to the physicians too in early screening and further management of such subjects.

11.2.2 Risk-Benefit Assessment

Since the study is designed as observational study, estimated risk for participants is not greater than minimal risk.

11.3 Recruitment Strategy

Participating study investigators will primarily be responsible for recruitment from the patients visiting them

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11.4 Informed Consent

The Investigator shall obtain a freely given, informed and written consent by the subject. If the subject is incapable of giving an informed consent, the subject's legally acceptable representative will sign the consent. If the subject or his legally acceptable representative is unable to read/ write, an impartial witness will be required who will be present during the entire informed consent discussion and will also sign the consent form. The formal consent of a subject, using the IEC-approved consent form, will be obtained before that subject undergoes any study procedure. Before requesting such consent, Investigator will provide all essential information for subjects to make an informed decision about their participation (as required by current regulatory norms) in a language that is non-technical and understandable by subject and/or his legally acceptable representative

11.5 Payment To Subjects/Families

Since the study is designed as an observational, real world, non-interventional study in the naturalistic setting of routine or typical clinical practice, no payment will be made to subjects for participation in this study. Compensation also does not apply to such studies.

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