Instructions for Use

ENGLISH (EN-GB)

ECG App

Instructions for Use



Apple Inc.

One Apple Park Way Cupertino, CA 95014, USA

www.apple.com

EC REP

Apple Distribution International Hollyhill Industrial Estate, Hollyhill, Cork,

Ireland

Contact: medicalcompliance@group.apple.com

C € 0123

SWITZERLAND COUNTRY-SPECIFIC INFORMATION:

CH-REP:

QUNIQUE GmbH Bahnhofweg 17 5610 Wohlen

Switzerland

TURKEY COUNTRY-SPECIFIC INFORMATION:

Apple Teknoloji ve Satış Limited Şirketi Büyükdere Caddesi Levent 199 Kat:22-23 34394 Şişli İstanbul

Türkiye

Product Tracking Number for ECG app: 8682450178021

BRAZIL COUNTRY-SPECIFIC INFORMATION:

ANVISA N⁰: 80117580880

RESPONSÁVEL TÉCNICO: LUIZ LEVY CRUZ MARTINS - CRF-SP: 42415

IMPORTADOR:

Emergo Brazil Import Importação e Distribuição de Produtos Médicos Hospitalares Ltda.

Avenida Francisco Matarazzo, 1.752, Salas 502/503, Água Branca, São Paulo-SP, CEP – 05001-200

CNPJ: 04.967.408/0001-98

Email: brazilvigilance@ul.com

COLOMBIA COUNTRY-SPECIFIC INFORMATION:

PRODUCTO: Software de Electrografía y aplicación de ECG para software de análisis de

fotopletismografía IMPORTADOR: IMPOMED S.A.S

Calle 1 SUR NO. 77A-21

Interior 201 Medellin Colombia

REGISTRO SANITARIO NO.: INVIMA 2020DM-0021828

ISRAEL COUNTRY-SPECIFIC INFORMATION:

AMAR REGISTRATION HOLDER:

Medogar Medical Equipment Ltd.

Hasadna St. 8 P.O.B 2586 Ra'annana 4365104 ISRAEL Office Tel: +972-9-7401457 Fax:+972-9-7401459

מדוגר מכשור רפואי בע"מ

4365104 רעננה 2566 ת.ד.

www.medogar.co.il info@medogar.co.il

AMAR Certificate Number: 21080016

REPUBLIC OF KOREA COUNTRY-SPECIFIC INFORMATION:

본 앱은 **"의료기기**" 임.

수입업자: 이머고코리아 (유)

06236) 서울특별시 강남구 테헤란로 152 강남파이낸스센터 26층 제조원: Apple Inc.

(본사) One Apple Park Way, Cupertino, CA 95014, USA

(공장) 20450 Stevens Creek Blvd., Cupertino, CA 95014, USA

허가번호: 수허 20-177 호

명칭 (제품명, 품목명, 모델명): 심전도 앱, 심전계, ECG App

소프트웨어 버전: 1.X 출시연월: 2020년 8월

포장단위: 1ea

PERU COUNTRY-SPECIFIC INFORMATION:

Registro Sanitario N⁰:DB5982E

IMPORTADOR:

Drogería Emergo Peru S.R.L.

Calle Las Orquídeas Nro. 585, Int. 1301,

San Isidro, Lima, Perú

RUC: 205 52 75 65 34

INDIA COUNTRY-SPECIFIC INFORMATION:

Voluntary Registration Number: Apple-USA/I/MD/002975

IMPORTER:

Asia Actual India (OPC) Pvt. Ltd.

523A, Tower A, Spaze I-Tech Park, Sector 49,

Gurgaon, Haryana, India

THAILAND COUNTRY-SPECIFIC INFORMATION:

Medical Device Licence Number: 64-2-2-2-0004085

IMPORTER:

บริษัท เอเชีย แอคชวล (ประเทศไทย) จำกัด 8 อาคารทีวัน ห้องเลขที่ 15-102 ชั้น 15 ซอยสุขุมวิท 40 ถนนสุขุมวิท แขวงพระโขนง เขตคลองเตย กรุงเทพฯ 10110

โทร. 02-821-5998

INDICATIONS FOR USE

The ECG app is a software-only mobile medical application intended for use with Apple Watch to create, record, store, transfer and display a single channel electrocardiogram (ECG) similar to a Lead I ECG. The ECG app determines the presence of atrial fibrillation (AF) or sinus rhythm on a classifiable waveform. The ECG app is not recommended for users with other known arrhythmias.

The ECG app is intended for over-the-counter (OTC) use. The ECG data displayed by the ECG app is intended for informational use only. The user is not intended to interpret or take clinical action based on the device output without consultation with a qualified healthcare professional. The ECG waveform is meant to supplement rhythm classification for the purposes of discriminating AF from normal sinus rhythm and is not intended to replace traditional methods of diagnosis or treatment.

The ECG app is not intended for use by people under 22 years old.

INTENDED PURPOSE (EU REGION)

The ECG app is a software-only mobile medical application intended for use with Apple Watch to create, record, store, transfer and display a single channel electrocardiogram (ECG) similar to a Lead I ECG. The ECG app determines the presence of atrial fibrillation (AF) or sinus rhythm on a classifiable waveform. The ECG app is not recommended for users with other known arrhythmias.

The ECG app is intended for over-the-counter (OTC) use. The ECG data displayed by the ECG app is intended for informational use only. The user is not intended to interpret or take clinical action based on the device output without consultation with a qualified healthcare professional. The ECG waveform is meant to supplement rhythm classification for the purposes of discriminating AF from normal sinus rhythm and is not intended to replace traditional methods of diagnosis or treatment.

The ECG app is not intended for use by people under 22 years old.

Target Population and Intended Users

The ECG app is intended for users who are 22 years old and over. There is no specific clinical condition required to use the app. Users who are interested in learning more about their cardiovascular health may choose to activate the feature upon successful completion of an onboarding process.

INTENDED USE (NON-EU REGION & REPUBLIC OF KOREA)

The intended use of the ECG app is to allow the user to take a single lead ECG that is then classified as sinus rhythm or atrial fibrillation (AF) on a classifiable waveform. The ECG and rhythm classification may be used by users with or without known AF as data that may be shared with a qualified healthcare professional. The ECG app is intended to be used by laypeople aged 22 years and over.

RUSSIA COUNTRY-SPECIFIC INFORMATION

The ECG app is not considered a medical device per ROSZDRAVNADZOR (Russian Health Authority).

The ECG app is a software-only mobile application intended for use with Apple Watch to create, record, store, transfer and display a single channel electrocardiogram (ECG) similar to a Lead I ECG. The ECG app determines the presence of atrial fibrillation (AF) or sinus rhythm on a classifiable waveform. The ECG app is not recommended for users with other known arrhythmias.

The ECG app is intended for over-the-counter (OTC) use. The ECG data displayed by the ECG app is intended for informational use only. The user is not intended to interpret or take clinical action based on the device output without consultation with a qualified healthcare professional. To receive appropriate healthcare advice, please visit a qualified healthcare professional. The ECG waveform is meant to supplement rhythm classification for the purposes of discriminating AF from normal sinus rhythm and is not intended to replace traditional methods of diagnosis or treatment.

The ECG app is not intended for use by people under 22 years old.

USING THE ECG APP

App Setup/Onboarding

- For region availability and device compatibility for the ECG app, please visit https://support.apple.com/HT208955
- Update Apple Watch and iPhone to latest OS.

- Open the Health app on your iPhone and select Browse.
- Navigate to Heart, then select Electrocardiogram (ECG).
- Follow the onscreen instructions.
- You may exit onboarding at any time by tapping Cancel.
- Once onboarding is complete, you can take an ECG using the ECG app on your Apple Watch.

Recording an ECG

- Make sure your Apple Watch is snug on the wrist you selected in Settings > General > Orientation.
- Open the ECG app on your Apple Watch.
- Rest your arms on a table or in your lap, and hold your finger on the Digital Crown. You do not need to press the crown during the session.
- The recording takes 30 seconds.

ECG Analysis

- · After a successful reading, you will receive one of the following classifications on your ECG app:
 - Sinus Rhythm: A sinus rhythm result means the heart is beating in a uniform pattern between 50 and 100 bpm.
 - Atrial Fibrillation: An AF result means the heart is beating in an irregular pattern between 50 and 120 bpm.
 - Inconclusive: An inconclusive result means the recording can't be classified. This can happen
 for many reasons such as not resting your arms on a table during a recording, or your Apple
 Watch is too loose. Certain physiological conditions may prevent a small percentage of users
 from creating enough signal to produce a good recording.
 - Low or High Heart Rate: A heart rate under 50 bpm or over 120 bpm affects the ECG app's ability to check for AF and the recording is considered inconclusive.
- After an ECG recording is complete, the ECG data is analysed to determine if it is at least 25 seconds long, and if so, if either Sinus Rhythm or AF is present, or if an Inconclusive result is warranted.
- The ECG recording result on the ECG app provides a detailed display of the result. A detailed explanation will also be provided on your iPhone.
- Presence of AF in your ECG results may represent only potential findings. If you are experiencing
 any symptoms or have concerns, contact your doctor. If you believe you are experiencing a
 medical emergency, you should contact emergency services.

- A result of Sinus Rhythm means your heart rate is between 50 and 100 beats per minute and is beating in a uniform pattern.
- Inconclusive ECG results may mean there may have been too much artefact or noise to acquire a good signal, or you may have an arrhythmia other than AF the app cannot classify, or your heart rate is between 100 and 120 bpm. A small percentage of people may have certain physiological conditions preventing them from creating enough signal to produce a good recording. You can learn more about Inconclusive ECG results during onboarding, by accessing educational information in the ECG area of the Health app on your iPhone, or by tapping the "i" icon on the ECG app for more information.
- A heart rate can be low because of certain medications or if electrical signals are not properly conducted through the heart. Training to be an elite athlete can also lead to a low heart rate.
- A heart rate can be high because of exercise, stress, nervousness, alcohol dehydration, infection, AF or other arrhythmia.
- If you receive an Inconclusive result due to a poor recording, you might try to re-record your ECG. You can review how to take an ECG during onboarding or by tapping "How to take an ECG" in the ECG area of the Health app on your iPhone.
- All ECGs are synced to the Health app on your iPhone. You may use the Health app to share your ECG with a clinician.

Deleting and Restoring ECG App on Apple Watch (For iOS 13 and later and watchOS 6 and later)

- Delete ECG app on Apple Watch
 - On your Apple Watch, go to the Home Screen.
 - If you are in Grid View, touch and hold the app lightly until it jiggles
 - Tap the app, then tap the "x" icon
 - If you are in List View, swipe left on the app and tap the Bin icon
 - Tap Delete
 - Press Digital Crown to finish
- Restore ECG app on the Apple Watch
 - Go to the App Store on your Apple Watch
 - Search for ECG app
 - Tap

 to restore the app

SAFETY AND PERFORMANCE

The ECG app's ability to accurately classify an ECG recording as AF and sinus rhythm was extensively tested in a clinical trial of approximately 600 participants. Rhythm classification of a 12-lead ECG by a cardiologist was compared with the rhythm classification of an ECG collected simultaneously from the ECG app. The ECG app demonstrated 98.3% sensitivity in classifying AF and 99.6% specificity in classifying sinus rhythm in classifiable recordings.

In this clinical trial, 12.2% of recordings were inconclusive and not classifiable as either sinus rhythm or AF. When inconclusive recordings were included in the analysis, the ECG app correctly classified sinus rhythm in 90.5% of participants with sinus rhythm and AF in 85.2% of participants with AF. The clinical validation results reflect use in a controlled environment. Real-world use of the ECG app may result in a greater number of strips being deemed inconclusive and not classifiable.

The morphology of the waveform was also tested in this clinical trial by visual assessment of the PQRST wave and R wave amplitude in comparison with a reference. During this clinical trial, no adverse events were observed.

TROUBLESHOOTING

If you experience difficulties in operating your ECG app, refer to the troubleshooting guide below.

Problem: I cannot get the ECG app to take a reading.

Solution:

- Ensure you have completed all the onboarding steps in the Health app on your iPhone.
- Make sure your wrist and Apple Watch are clean and dry. Water and sweat can cause a poor recording.
- Ensure your Apple Watch, arms and hands remain still during recordings.

Problem: I have a lot of artefact, noise or interference in my recording.

Solution:

- Rest your arms on a table or in your lap while you take a recording. Try to relax and not move too
 much.
- Make sure your Apple Watch isn't loose on your wrist. The strap should be snug and the back of your Apple Watch needs to be touching your wrist.
- Move away from any electronics that are plugged into a power point to avoid electrical interference.

Problem: The ECG waveforms appear upside down.

Solution:

• The watch orientation may be set to the wrong wrist. On your iPhone, go to the Watch app. Tap My Watch > General > Watch Orientation.

All data recorded during an ECG app session is saved to the Health app on your iPhone. If you choose to, you can share that information by creating a PDF.

New ECG data cannot be recorded once your Apple Watch storage is full. If you are not able to take a recording due to storage space issues, you should free up space by deleting unwanted apps, music or podcasts. You can check your storage usage by navigating to the Apple Watch app on your iPhone, tapping My Watch, tapping General, then tapping Storage.

CAUTIONS:

The ECG app cannot check for signs of a heart attack. If you believe you're having a medical emergency, call emergency services.

DO NOT take recordings when Apple Watch is in close proximity to strong electromagnetic fields (e.g. electromagnetic anti-theft systems or metal detectors).

DO NOT take recordings during a medical procedure (e.g. magnetic resonance imaging, diathermy, lithotripsy, cautery and external defibrillation procedures).

DO NOT take recordings when Apple Watch is outside the operational temperature range (0-35 °C) indicated in the Apple Watch user manual and humidity range of 20-95% relative humidity.

DO NOT use to diagnose heart-related conditions.

DO NOT use with a cardiac pacemaker, ICDs or other implanted electronic devices.

DO NOT take a recording during physical activity.

DO NOT change your medication without talking to your doctor.

Not intended for use by individuals under the age of 22.

You should talk to your doctor if your heart rate is under 50 or over 120 bpm at rest and this is an unexpected result.

Interpretations made by this app are potential findings, not a complete diagnosis of cardiac conditions. The user is not intended to interpret or take clinical action based on the app output without consultation with a qualified healthcare professional.

The waveform generated by the ECG app is meant to supplement rhythm classification for the purposes of discriminating AF from normal sinus rhythm and is not intended to replace traditional methods of diagnosis or treatment.

This is a notice to the user and/or patient that any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

CAUTION: Apple does not guarantee that you are not experiencing an arrhythmia or other health conditions when the ECG app labels an ECG as Sinus Rhythm. You should notify your doctor if you detect possible changes in your health.

SECURITY: Apple recommends that you add a passcode (personal identification number [PIN]), Face ID or Touch ID (fingerprint) to your iPhone and a passcode (personal identification number [PIN]) to your Apple Watch to add a layer of security. It is important to secure your iPhone since you will be storing personal health information on it. Users will also receive additional iOS and watchOS update notifications on the device, and updates are delivered wirelessly, encouraging rapid adoption of the latest security fixes. See "iOS and watchOS Security Guide", which describes Apple's security practices and is available to all our users. For the iOS and watchOS Security guide, please visit https://support.apple.com/guide/security/welcome/web.

EQUIPMENT SYMBOLS

	Manufacturer
[i	Consult instructions for use
EC REP	European Authorised Representative
MD	Medical Device

099-14501 Revision AC, March 2022