

Championing Hypertension

Remote Monitoring

for

Equity & Dissemination





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a. What is hypertension (high blood pressure)

Blood pressure is the result of two forces. The first force (**systolic blood pressure**) is when the blood pumps out of the heart and into the arteries. The second force (**diastolic blood pressure**) happens as the heart relaxes in between heartbeats. These two forces are represented on the blood pressure monitor as "**SYS**" for systolic and "**DIA**" for diastolic. We will review the normal and abnormal ranges for systolic and diastolic blood pressure at the end of this packet.

High blood pressure is also called **hypertension**. Having high blood pressure means that the force of your blood pushing against the walls of your blood vessels is **too high**. Sometimes high blood pressure does not have any symptoms you can see, which is why blood pressure monitors are a recommended tool. Having high blood pressure can lead to other serious health issues like a heart attack or a stroke.

(American Heart Association, 2024)

b.What is CHARMED?

CHARMED stands for Championing Hypertension Remote Monitoring for Equity & Dissemination. The goal of this study is to support patients with hypertension self-management using both home blood pressure monitors and digital messaging programs. The investigators will first engage patients with technology training to use home monitors, texting and mobile phone applications. Following that, investigators will assess the effectiveness of home blood pressure monitors and enhanced patient-clinician digital communication on blood pressure control during a 6month intervention.

Eligibility:

You are eligible for this study because you meet the following criteria:

- Are an English and/or Spanish speaker.
- Have uncontrolled Hypertension (≥140/90mmHg).
- Patient within Ventura County Health Care Alliance (VCHCA).
- Have seen primary care provider within the past 2 years.
- Are over the age of 18 years.

CHARMED Website

Scan QR code to see the CHARMED website:



c. Meet the Team

Study Coordinators:

- Jorge Larreynaga
- Maria Plascencia-Mooradian
- Sara Guzman-Estrada
- Monica Naranjo
- Isabel Luna
- Eric Li

Principal Investigators:

- Urmimala Sarkar, MD, Professor
 UCSF Division of General Internal Medicine at ZSFG
- Courtney Lyles, PhD, Professor, Medicine: Public Health Sciences at UC Davis

Study Contact:

 For assistance, please contact Faviola García at faviola.garcia@ucsf.edu or 628-215-1173 (calls and texts accepted)

d. Quick Reminders

- 1. A study coordinator will reach out individually to each participant to schedule an exit interview at the 6-month mark.
- 2. This blood pressure monitor should only be used by the participant in the study. Do not share the monitor with others while enrolled.
- 3. When taking your blood pressure place the monitor on a flat surface and do not move until the reading is complete.
- 4. Study text messages are automated. If you have questions regarding a warning message, please contact your clinic for further assistance.
- 5. Please be sure to read the daily messages you receive.

e. Blood Pressure Monitor

CareSimple®



See <u>page 8</u> for information on how to properly take your blood pressure at home.

The CareSimple Blood Pressure (BP) Monitor provides an easy

way to measure a patient's systolic and diastolic blood pressure.

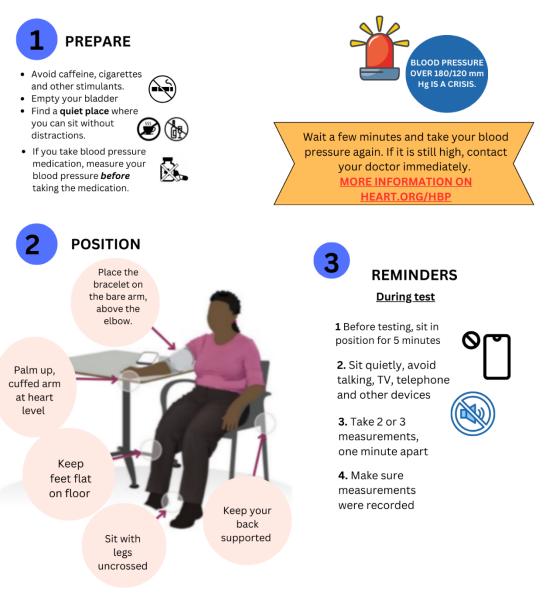
Login Information for CareSimple App: Username:

Password:

f. How to take Blood Pressure at home graphic

HOW TO TAKE BLOOD PRESSURE AT HOME

FOLLOW THESE STEPS TO OBTAIN AN ACCURATE BLOOD PRESSURE READING



g. Error Codes

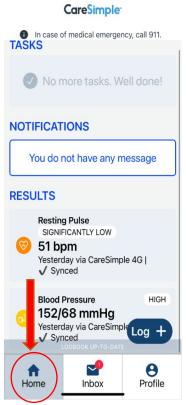
Blood pressure error codes may pop up on your device and how to fix.

Error Code	Resolution	
Er 1	Your device's batteries are low. Please replace	
Er 7	them with 4 AA batteries.	
Er 2	Your measurement was interrupted due to movement. Avoid moving or talking while taking a measurement	
Er 4	Your device cannot connect to the cellular	
Er 5	network. Try moving to a new location, upstairs or near a window.	
Er 6		
Er 20	Plug the cuff tube all the way into the device and make sure that there is no air gap. You can also	
Er 22	remove and re-insert it to fix the problem.	

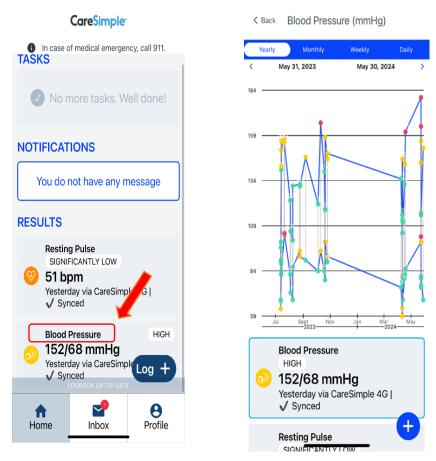
h. CareSimple Phone App

Steps on how to review blood pressure readings:

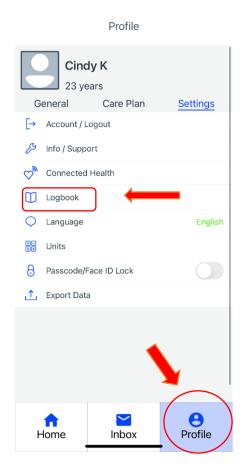
- 1. Open the "CareSimple" app on your phone or tablet.
- Press "Home" to review your most recent blood pressure measurement. On the right, each measurement will show if your reading was: Very Low, Low, Normal, High, or Very High.

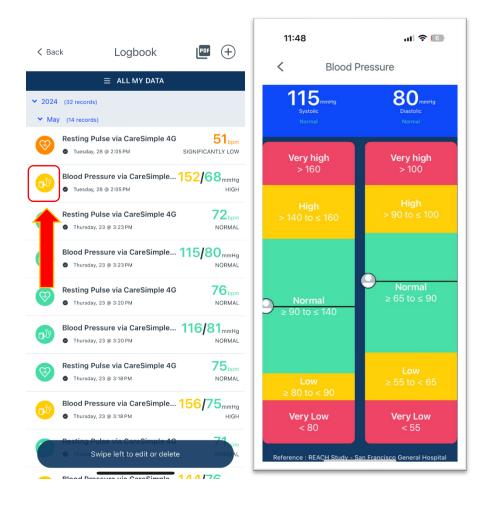


 Select the "Blood Pressure" measurement to view a graph of your blood pressure measurements for the past year, month, week or day.



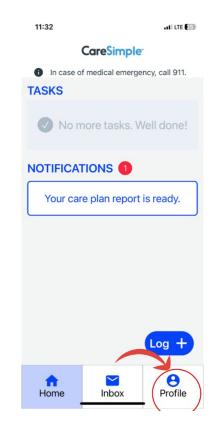
- 4. Open your Profile on the bottom right-hand corner, go to "Settings" and select "Logbook" to review all your past measurement data, color coded based on the range of the measurement.
- 5. Tap on the color-coded circle icon of the measurement data, to view the range of your blood pressure.



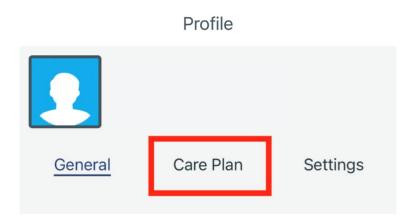


i. How to see CarePlan:

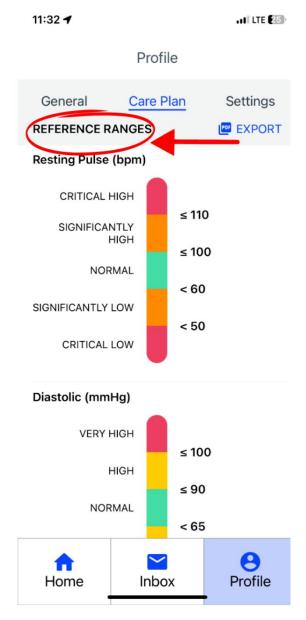
1. In the CareSimple app, click on "Profile"



2. Click on "**Care Plan**". Here, you will be able to see the Care Plan that was created for you.

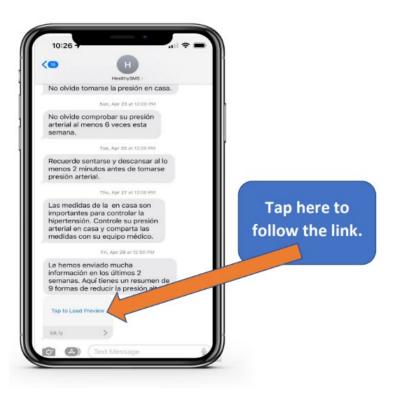


3. Click on "Reference Ranges" to view the range for the blood pressure measurements.Blood pressure readings are seen according to colors. Categories: Very High, High, Normal, Low, and Very Low.



j. Text Message Information

- You will receive text messages throughout your study enrollment. All participants will receive messages from the following number: (855) 604-7960
- Take your blood pressure at least **6** times during the week.
- Remember these are automated text messages.
- Text messages will have links. See example below:



Very Low or Very High Text Message Alerts

If a blood pressure reading you take at home is considered Very Low or Very High (see **pages 21 & 22** for ranges and their categorization), you will receive a message from the CareSimple app.

See an example below:



i. Clinic Contact Information

If you have questions regarding a **very low or very high blood pressure** message, please contact your clinic for further assistance.

Ventura County Health Care Alliance:

Clinic	Phone Number

West Ventura Medical Clinic (Ventura)	(805) 641-5600
Moorpark Family Medical Clinic (Moorpark)	(805) 523-5400
Las Islas Family Medical Group, North (Oxnard)	(805) 240-7000
Fillmore Family Medical Group	(805) 524-2000
Academic Family Medicine Center (AFMC)	(805) 652-6100
Magnolia Family Medical Center (Oxnard)	(805) 981-5151
Sierra Vista Family Medical Clinic (Simi Valley)	(805) 582-4000
Conejo Valley Family Medical Group (Thousand Oaks)	(805) 418-9100

j. Blood Pressure Log

Date	Time	Blood Pressure	Pulse	Notes
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Please remember to bring your completed blood pressure logs to your next provider appointment

k. Blood Pressure Chart

