Hawthorne Health

[IN-HOME REFERENCE MEASURES]

Clinical reference data for wearable validation, collected in the participant's home.

Device data travels with your participants. We bring the reference measures to them as well: echocardiography, vascular ultrasound, fasting samples and vitals, collected at home in all 50 states and read by board-certified cardiologists. One agreement, one project manager and one quality system.

99.9%
of 3,002 in-home echocardiograms interpretable in a peer-reviewed national study

50
states with completed in-home echocardiograms

7 days
median intake to report on a national in-home echo program

2015
delivering in-home clinical research visits since

[01] RECENT AWARD

A global technology company selected Hawthorne Health for a 1,200-participant wearable study.

Each participant is screened and consented by phone, then completes an echocardiogram, carotid and femoral ultrasound and a fasting blood and urine collection at home, inside the device wear period. Hawthorne Health cardiologists read all imaging.

[02] THE HARD PART OF A VALIDATION STUDY

In one decentralized smartwatch study, about 1 in 6 participants had a reference echocardiogram.

Enrolled with a smartwatch, from 46 states — **2,454**

Had an echocardiogram within 30 days — **~420**

The echo depended on a clinician ordering one. A home visit inside the wear period is designed to give enrolled participants a matched reference measure.

Source: Mayo Clinic News Network, decentralized Apple Watch ECG study.

[03] WHAT WE DELIVER IN THE HOME

What your protocol needs, in one home visit.

IMAGING

Complete adult transthoracic echocardiogram

Carotid and femoral duplex, including plaque and CIMT

Acquired to your protocol on Hawthorne Health ultrasound systems

INTERPRETATION

Board-certified cardiologists read all imaging

Structured reports to your endpoints

DICOM images available for transfer

SAMPLES

Fasting venipuncture and urine collection

Processing to laboratory specifications

Frozen and ambient shipment, results as structured data

PARTICIPANT PATH

Telephone screening

Remote 21 CFR Part 11 eConsent

Questionnaires and measurements at the visit

Device handover and training where the protocol asks

[04] WHERE WE FIT IN YOUR STUDY

01 DEVICE AND ALGORITHM

Your team

The sensor, the signal and the analysis plan.

02 ENROLLMENT

Your app, team or CRO

We work alongside whichever you use.

03 REFERENCE MEASURES

Hawthorne, at home

Screening, eConsent and one home visit under one quality system.

04 READS AND ANALYSIS

Our cardiologists and your partners

We read all imaging. Your team or core lab analyzes the device data.

[05] PUBLISHED EVIDENCE · PREVUE-VALVE

3,000 analyzable in-home echocardiograms across all 50 states, read by an independent core laboratory. Published in JACC, 2026.

3,002
completed of 3,394 consented

99.9%
of completed studies interpretable

65 to 85
participant ages

3 years
of continuous enrollment, 2022 to 2025

Brener MI, et al. J Am Coll Cardiol. 2026;87(23):3227-3239.

[06] REFERENCE MEASURES BY STUDY TYPE

	ECHO	VASCULAR	VITALS, BP	FASTING LABS	BIOMARKERS
Consumer wearable features	●	●	●	●	◐
Cardiac devices and diagnostics	●	●	◐	◐	◐
AI-ECG and AI echo algorithms	●				◐
Screening and natural history	●		◐	●	●

● Typical ◐ Sometimes All collected at the same home visit.

Send us your protocol.

studies@hawthornehealth.com

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Results vary by study. Program figures from hawthornehealth.com/case-studies, October 2026. Sponsors are not named.