

Center for Human Phenomic Science

Cardiovascular Core: Electrocardiogram Unit

The CHPS Cardiovascular (CV) Core completes research electrocardiograms (ECGs) for pediatric research subjects.

Services and Tests

- ECG with rhythm
- ECG without rhythm
- Professional interpretation/reading for ECGs completed in the Cardiology Core or in CHPS RN Core

Core Access

If you are thinking about using the CHPS CV Core for your study reach out with your study protocol to:

- Victoria Vetter, MD, <vetter@chop.edu> to discuss which services best meet your study protocol needs and information for adult study needs.
- John Krall, <krallj@chop.edu> CHPS Administrative Director: for pricing and budget information.

Official requests for CHPS CV Core Electrocardiogram Unit are submitted eResearch with the eCHPS application following the instructions on the [CHPS home page](#).

CHPS asks for clarity in the eCHPS application regarding the following:

- What is the expected age range of the population?
- How many subjects are older than 21 years of age? CHPS can assist with a limited number of adult patients if approved.
- Who will be doing the readings?
- How fast do the ECGs need to be read? Are study procedures or enrollment dependent upon the ECG reading? Standard reading time is 24-72 hours. Study teams will need to specify if readings are needed outside of this timeline.
- Information regarding the specific protocol requirements (e.g., QTcB or QTcF, R-R, PR, QRS intervals, or other measurements should be provided in the resource request).



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Studies must receive both IRB and CHPS approval before Core services can be utilized. In addition, all studies must be fully signed-off and in the status of released/open to accrual in OnCore before registering or scheduling subjects for CHPS visits.

Adult ECGs

CHPS has a limited ability to provide ECG readings for participant older than 21. For studies requiring primarily adult services or a large volume of adult participants, investigators can either identify an adult Cardiologist to join the research team or work with the research facilitator at the Penn CHPS program for subjects over 21 years to be seen by an adult practitioner. Please reach out to the CHPS administrative team to discuss your request.

ECGs in the CHPS Nursing Core

ECGs can also be performed in the CHPS Nursing Core, either with a sponsor provided machine or a local ECG machine that can be used for research. For additional information about this option, please reach out to the CHPS administrative team to discuss your request. Center for Human Phenomic Science (CHPS)
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ECG Readings

Readings typically take 24-72 hours. If you need ECGs read more quickly, please note the timeline in the eCHPS application. This timeline should also be noted when scheduling participants.

The CHPS resource request should specify the need for interpretation services where necessary. This service must be requested in the eCHPS application. Readings for ECGs done in the CHPS Nursing Core can also be read by the CHPS ECG Unit. Again, that request should be noted in the eCHPS application. In general, readings for all ECGs performed by CHPS (Nursing or Cardiology) will be read by CHPS staff. There are two exceptions to this policy:

1. The study protocol states ECG will be sent electronically to a central reader. If ECGs performed in the CHPS Nursing Core will be read centrally, please note that in the eCHPS application. Centrally read ECGs will be processed in the manner proscribed by the protocol and established during the start-up meeting with the Core.
2. The study team includes an MD in the eCHPS application as the person reading the ECGs. The expectation by CHPS is the person listed to read the ECGs is qualified to



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do so. The Cardiovascular Core will review the application to ensure that the ECG reading is within their scope of practice.

Accessing the Electrophysiology Lab for CHPS ECGs and Readings

Once the eCHPS application is approved by the CHPS Resource Committee, study teams must schedule a start-up meeting with Ashley Driscoll: 215-590-3181 (ECG/MUSE Coordinator) and Michael McBride (Medical Director of Cardio labs) prior to scheduling research subjects or requesting readings/interpretations.

At the start-up meeting, information will be provided regarding scheduling participants and other logistical issues. Please note, a start-up meeting is required even for studies where the CV Core will only provide readings for ECGs done in the CHPS Nursing Core.

ECGs will be provided by our CV Core during normal business hours Monday through Friday. Investigators will have to make alternative arrangements on their own for afterhours tests.

Contact Information:

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CHPS ECG/MUSE Physician

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