



**A Call for Research in Predictive Health:  
An Opportunity for Innovative Research and Collaboration with the  
Center for Health Discovery and Well Being**

**I. BACKGROUND**

The Emory/Georgia Tech Predictive Health Institute (PHI), through its Center for Health Discovery and Well Being (CHDWB), is a component of the Atlanta Clinical Translational Science Institute, a collaborative effort of Emory University, Morehouse School of Medicine, and Georgia Institute of Technology (Georgia Tech). The Predictive Health Institute was established as part of the Emory University strategic plan in 2005 as an innovative approach to understanding and optimizing health that focuses on maintaining health rather than treating disease. The CHDWB was established as the clinical expression of Predictive Health, with the purpose of integrating PHI principles with scientific discovery, health focused research and education using a combination of established and cutting edge tools to identify and measure risks and deviations from health. The CHDWB serves as a practical test of the concept of health-focused care, as well as an academic resource and a clinical-translational laboratory with its innovative delivery model and longitudinal database and tissue repository.

Two core CHDWB goals have been to describe health in social, cultural and biological terms, and to use these tools to understand and predict deviations from health and overall health prognosis. A variety of metrics are used in this process, including a battery of questionnaires, assessments and laboratory tests that are either disease specific (e.g. cancer, neurodegenerative diseases, and atherosclerosis) or follow common pathways such as oxidative stress, inflammation, and immune status.

The CHDWB established a prospective longitudinal cohort of approximately 750 individuals who were enrolled as early as 2006 and have undergone annual assessments as participation permitted and excepting attrition. Participants from the Emory University pool of employees were randomly offered to join the CHDWB cohort. Those who agreed to participate and who provided informed consent were predominantly healthy individuals.

**II. OPPORTUNITY**

The Predictive Health Institute and the Atlanta Clinical and Translational Science Institute announce a call for research proposals using data and/or specimens from the longitudinal CHDWB cohort. Clinical and laboratory variables collected in the cohort are described below. Biological specimens (plasma, serum, urine, buffy coat) from each participant may also be available for request.



## Center for Health Discovery and Well Being

### List of Questionnaires, Assessments and Laboratory Tests

#### Questionnaires

##### Demographics

Personal and Family Health History  
Occupational History and Exposures  
Health Symptoms  
Tobacco and Alcohol Usage  
Traditional and Complimentary Medication Use  
Supplement and Herb Intake

#### Assessments

Perceived Stress Scale  
Block Food Frequency Questionnaire  
CAPS Physical Activity Questionnaire  
SF-36 (v2)  
Beck Depression Scale  
Family Assessment Device  
Enriched Social Support Inventory  
Epworth Sleepiness Scale  
Pittsburgh Sleep Quality Index  
Mental Health Flourishing Index  
Assessment of Chronic Illness (FACIT-Sp-Ex)  
Generalized Anxiety Disorder (GAD-7)  
NexSig Nexade Neurocognitive exam  
Resting Heart Rate and Blood Pressure  
Bioelectrical Impedance Analysis  
DEXA scan (bone density, fat and lean body mass)  
Fitness assessment (sub maximal treadmill test)  
Pulse Wave Analysis and Pulse Wave Velocity  
Carotid IMT  
Flow Mediated Dilation  
Reactive Hyperemia Index, Augmentation Index

#### Clinical Laboratory Tests

Lipid panel  
Iron and Total Iron Binding Capacity  
Comprehensive Metabolic Panel  
Complete blood count with differential  
Urine Creatinine and microalbumin  
C-reactive protein  
Ferritin  
Insulin  
TSH, 3<sup>rd</sup> generation  
Vitamin B12  
Vitamin D, 25-hydroxy  
Testosterone  
Estradiol

#### Research Laboratory Tests

GSH, GSSG  
Cysteine, Cystine  
CysGSH, CysRedox  
Serum d-ROMS  
Serum Protein nitrotyrosine  
Urine F2 $\alpha$  - isoprostanes  
TNF-alpha, INF-gamma  
Interleukin-6, Interleukin-8  
NGAL, MMP-9  
Whole genome genotypes  
Peripheral blood gene expression (microarray)

#### *Regenerative Cell Potential*

Certain cell surface markers (i.e. CD34)

Additional information is available on the submission form at: [j.mp/CHDWB\\_request](https://j.mp/CHDWB_request)

### **III. ELIGIBILITY**

A major goal of this RFP is to stimulate collaboration and novel analyses that take advantage of the PHI/CHDWB data as an inter-institutional resource. Applications are welcome from all regular, full-time faculty, regardless of rank, affiliated with ACTSI (Emory University, Georgia Institute of Technology, Morehouse School of Medicine, Atlanta VA Medical Center, Children's Healthcare of Atlanta), and any other individuals with the appropriate skills and expertise to conduct the necessary analyses.



Individuals or organizations without Emory affiliation are eligible to request Predictive Health data. The request will be reviewed on a case-by-case basis with no assurances given in advance that permission will be granted. IRB approval from the appropriate oversight committee is required for non-Emory applicants and a material transfer agreement (MTA) or similar may be required for specimen sharing.

#### **IV. APPLICATION PROCESS**

Interested applicants must submit a request using the online REDCap system, available at: [http://j.mp/CHDWB\\_request](http://j.mp/CHDWB_request).

The request may be completed online and will allow designation of what items from the database are being requested. The application will also request information on the primary investigator, co-investigators, IRB approval (if required), study hypotheses and analytic plans.

You may contact Mrs. Jane Clark, PHI Program Coordinator, with any questions.  
404-727-3845 or [jbclark@emory.edu](mailto:jbclark@emory.edu)

There is no deadline for submitting requests.

#### **V. APPLICATION REVIEW AND DATA/SPECIMEN UTILIZATION REQUIREMENTS**

Access to the Predictive Health research database and associated biological samples is gained by application to the research access and data subcommittee, who is responsible for reviewing all requests.

The Predictive Health Institute is committed to rapid and complete data release, and to ensuring that the data remain available to all qualified Emory University and ACTSI users at no cost whenever possible. However, fees may be assessed depending on the quantity, complexity and composition of data requested and/or the specimens requested irrespective of the affiliation with Emory University or ACTSI. Notification of any applicable fees will be given at the time of approval and any fees must be paid prior to receiving data or specimens.

The electronic request will be reviewed by the Predictive Health data review committee generally within 10 days of submission. Duplicate or redundant requests to earlier approved requests may be declined. If approved, the requested data will be made available to you in Excel, SAS, or SPSS format approximately three weeks after your submission. Transfer of biospecimens will be made available in approximately the same time frame, depending on quantity and location.



Data is meant for research purposes only. It is expected that data will be used in support of funded research activity, either in support of a grant or in generating preliminary data for a grant proposal. Requests that do not, in the judgment of the review committee, adequately support the research purpose will either be returned for revision or rejected. Individuals who have a request rejected are eligible to submit other requests with each again subject to committee review.

Emory University and the Predictive Health Initiative retain ownership rights to all provided data regardless of the purpose or outcome of any subsequent publications or collateral works.

The Emory University and Predictive Health Institute data base will be acknowledged in all publications or communications where primary or derived data is used. Any publication, presentation or any document that includes direct or derived information from the Emory Predictive Health Database must include the following statements:

"This work is based on information from the Emory Predictive Health Institute and Center for Health Discovery and Well Being Database."

"Supported by Emory University and the National Center for Advancing Translational Sciences of the National Institutes of Health under Award Number UL1TR000454."

Any publication, presentation or any document that includes direct or derived information from the "laboratory - general" must cite Quest Diagnostics.

Researchers will retain rights to their research product but not the primary data. No restrictions on future, ongoing research work from the data base is implied or possible from this agreement.

## **VI. ADDITIONAL INFORMATION & QUESTIONS**

Questions or requests for additional information should be directed to:

Jane Clark, Program Coordinator  
Predictive Health Institute and CHDWB  
Emory University  
<http://predictivehealth.emory.edu>  
[jbclark@emory.edu](mailto:jbclark@emory.edu)  
404-727-3845