

Cardiovascular Health Study (CHS) dbGaP Acknowledgment Statements

November 9, 2020

The acknowledgment of the CHS dataset(s) should always include acknowledgment of the CHS contract (component I below) **AND** the genotypic/genomic/phenotypic/other dataset(s) - components II and III below - along with their relevant dbGaP accession number(s).

Components of the CHS dbGaP Acknowledgment Statements:

I. Cardiovascular Health Study (CHS) Contract Acknowledgment

(Use the following statement for ALL analyses resulting from CHS dbGaP data.)

"This research was supported by contracts HHSN268201200036C, HHSN268200800007C, HHSN268201800001C, N01HC55222, N01HC85079, N01HC85080, N01HC85081, N01HC85082, N01HC85083, N01HC85086, 75N92021D00006, and grants U01HL080295 and U01HL130114 from the National Heart, Lung, and Blood Institute (NHLBI), with additional contribution from the National Institute of Neurological Disorders and Stroke (NINDS). Additional support was provided by R01AG023629 from the National Institute on Aging (NIA). A full list of principal CHS investigators and institutions can be found at CHS-NHLBI.org."

II. Genotypic/Genomic Dataset Acknowledgment

(Use one or more of the following statements relevant to the specific datasets used in your analysis.)

A. NHLBI Cardiovascular Health Study (CHS) Candidate Gene Association Resource (CARE)

"Support for the genotyping through the CARE Study was provided by NHLBI Contract N01HC65226."

B. STAMPEED: Cardiovascular Health Study (CHS)

"Support for the Cardiovascular Health Study Whole Genome Study was provided by NHLBI grant R01HL087652. Additional support for infrastructure was provided by R01HL105756 and additional genotyping among the African-American cohort was supported in part by R01HL085251. DNA handling and genotyping at Cedars-Sinai Medical Center was supported in part by National Center for Research Resources grant UL1RR033176, now at the National Center for Advancing Translational Technologies CTSI grant UL1TR000124; in addition to the National Institute of Diabetes and Digestive and Kidney Diseases grant P30DK063491 to the Southern California Diabetes Endocrinology Research Center."

C. PAGE: CALiCo: Cardiovascular Health Study (CHS)

"This study is part of the PAGE program, a cooperative agreement funded by the National Human Genome Research Institute. The PAGE collaborative study is supported by U01HG004803, U01HG004798, U01HG004802, U01HG004790, and U01HG004801, with additional support from the National Institutes of Mental Health."

D. NHLBI GO-ESP: Heart Cohorts Exome Sequencing Project (CHS)

“This study is part of the NHLBI Grand Opportunity Exome Sequencing Project (GO-ESP). Funding for GO-ESP was provided by NHLBI grants RC2HL103010 (HeartGO), RC2HL102923 (LungGO) and RC2HL102924 (WHISP). The exome sequencing was performed through NHLBI grants RC2HL102925 (BroadGO) and RC2HL102926 (SeattleGO).

HeartGO gratefully acknowledges the following groups and individuals who provided biological samples or data for this study. DNA samples and phenotypic data were obtained from the following studies supported by the NHLBI: the Atherosclerosis Risk in Communities (ARIC) study, the Coronary Artery Risk Development in Young Adults (CARDIA) study, Cardiovascular Health Study (CHS), the Framingham Heart Study (FHS), the Jackson Heart Study (JHS) and the Multi-Ethnic Study of Atherosclerosis (MESA).”

E. Building on GWAS for NHLBI-Diseases: The U.S. CHARGE Consortium –Sequencing (CHARGE-S): CHS):

“This study is part of the Building on GWAS for NHLBI-diseases: the U.S. CHARGE consortium (CHARGE-S). Funding for CHARGE-S was provided by NHLBI grant RC2HL102419 through the American Recovery and Reinvestment Act of 2009 (ARRA). Additional support was provided by NHLBI grants R01HL086694, U54HG003273, R01HL087652, R01HL103612, R01HL105756, and R01HL068986.

Data for the Building on GWAS for NHLBI-diseases: the U.S. CHARGE consortium was provided by Eric Boerwinkle on behalf of the Atherosclerosis Risk in Communities (ARIC) Study, L. Adrienne Cupples, principal investigator for the Framingham Heart Study, and Bruce Psaty, principal investigator for the Cardiovascular Health Study. A portion of this research was conducted using the Linux Cluster for Genetic Analysis (LinGA-II) funded by the Robert Dawson Evans Endowment of the Department of Medicine at Boston University School of Medicine and Boston Medical Center. For additional information about CHS policies, procedures, and data collection see <https://chs-nhlbi.org>.”

The CHARGE-S investigators request that publications resulting from these data cite their original publication: Psaty BM, O’Donnell CJ, Gudnason V, Lunetta KL, Folsom AR, Rotter JI, Uitterlinden AG, Harris TB, Witteman JC, Boerwinkle E; CHARGE Consortium. *Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium: Design of prospective meta-analyses of genome-wide association studies from five cohorts*. *Circ Cardiovasc Genet* 2:73-80, 2009.

F. Exome Chip

“Exome Chip genotyping, quality control, and joint calling in the CHARGE Consortium was supported by R01HL087652, R01HL105756, R01HL103612, R01HL120393, R01HL130114, R01HL068986, and RC2HL102419.”

G. NHLBI TOPMed Whole Genome Sequencing Project: Cardiovascular Health Study and Venous Thromboembolism Study

The TOPMed acknowledgement statement can be found at:

<https://www.nhlbiwgs.org/acknowledgements> .

III. Non-Contract Phenotypic Dataset Acknowledgment. The following datasets need additional acknowledgements. (Select from the following statements those relevant to the specific datasets used in your analysis.)

A. Data Sets in folder: *Other Datasets / Additional Biomarkers*

Dataset	Nature	Acknowledgement
ICAM1 Baseline ICAM-1 - sample	ICAM1 Baseline	"Funding support for the CHS ICAM1 Baseline dataset was provided by NIH grant R01HL046696."
DDimer Baseline D-Dimer - sample	D-Dimer Baseline	"Funding support for the CHS D-Dimer Baseline dataset was provided by NIH grant R01HL046696."
PAP Baseline PAP - sample	PAP Baseline	"Funding support for the CHS PAP Baseline dataset was provided by NIH grant R01HL046696."
LPPLA2 Baseline LP-PLA2 Mass (ng/ml)	LPPLA2 Baseline	"Funding support for the CHS LPPLA2 Baseline dataset was provided by Glaxo SmithKline corp."
LPPLA2AC Baseline LP-PLA2 Activity (nmols/min/mL)	LPPLA2AC Baseline	"Funding support for the CHS LPPLA2AC Baseline dataset was provided by Glaxo SmithKline corp."

B. Data Sets in folder: *Other Datasets*

Dataset	Nature	Acknowledgement
Bone_Density_Base_Yr7	Bone Density Yr 7	"Funding support for the CHS Bone Density Yr7 dataset was provided by interagency agreement between NIA and NHLBI."
CARE_Dddimer_Weights_1_10	D-Dimer Weights; (Weights for 'DDimer Baseline DDimer sample' data)	"Funding support for the CHS D-Dimer Weights dataset was provided by NIH grant R01HL046696."

C. Data Sets in folder: *Datasets Added in Version 4 and Later*

Dataset	Nature	Acknowledgement
CHS_VTE	Venous thromboembolism events during follow-up (deep venous thrombosis and pulmonary embolism)	"Funding support for the CHS_VTE dataset was provided by NIH grant R01HL059367."