

# CRIC Funded Ancillary Studies

**Study Title**

**Principal Investigator**

**University Affiliation**

**Year funded**

**Keywords**

*Nutrition Assessment in Chronic Renal Insufficiency Cohort (CRIC) Study Population*

Cheryl Anderson, PhD, MPH

The Johns Hopkins University

2002

nutrition, cerebrovascular disease, protein-energy malnutrition, metabolism

*A Structural Approach to Renal Bone Disease in CRIC*

Mary Leonard, MD, MSCE

Children's Hospital of Philadelphia

2003

renal bone disease, renal osteodystrophy, bone mineral density

*Hypertension and Hypercholesterolemia Control in Patients with CKD*

Paul Muntner, PhD

University of Alabama at Birmingham

2003

hypertension, hypercholesterolemia, cardiovascular disease, hemodynamics, nutrition

*CRIC Heart Failure Detection Cohort and the CRIC Heart Failure Progression Cohort*

Michael Shlipak,

University of California, San Francisco

2003

*Development and Validation of GFR Estimating Equations*

Andrew Levey, MD

Tufts University

2004

estimated glomerular filtration rate, meta analysis, equation

*Carotid Intima-Media Thickness in Chronic Kidney Disease*

Sylvia Rosas, MD, MSCE

University of Pennsylvania

2004

carotid intima-media thickness, carotid plaque, progression, cardiac outcomes

*Hispanic Recruitment in CRIC*

Julio Vijil, Jr., MD

University of Illinois, Chicago

2004

recruitment, Hispanic

**\*Please note that this list is limited to approved CRIC ancillary studies that have received funding. The CRIC Steering Committee reviews and approves new proposals on a rolling basis and maintains a separate list of approved but not yet funded proposals which are also considered when vetting new submissions.**

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Cognitive Function in Chronic Renal Insufficiency*

Kristine Yaffe, MD

University of California, San Francisco

2005

cognitive function, gfr, depression

*Pulse Wave Velocity and Chronic Kidney Disease*

Raymond Townsend, MD

University of Pennsylvania

2005

pulse wave velocity, hypertension, cardiovascular disease

*Sleep Disturbances as a Non-traditional Risk Factor in CKD*

Eve Van Cauter, PhD

University of Chicago

2005

sleep, risk factor, c-reactive protein

*Diabetic and Hypertensive Retinopathy and CRI*

Juan E. Grunwald, MD

University of Pennsylvania

2005

retinopathy, hypertension, diabetes, ophthalmology

*Hispanic Chronic Renal Insufficiency Cohort*

James Lash, MD

University of Illinois, Chicago

2005

hispanic, cardiovascular disease, progression

*Cytokine Gene Polymorphism in the CRIC Cohort*

Dominic Raj, MD

George Washington University

2006

cytokine, polymorphism, inflammation

*Genetics of Atherosclerosis in Renal Disease*

Muredach P. Reilly, MBBCH, MSCE

University of Pennsylvania

2006

genetics, atherosclerosis, metabolic syndrome, inflammation

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Vitamin D Deficiency, Physical Performance and Cardiovascular Disease*

Mary Leonard, MD, MSCE

Children's Hospital of Philadelphia

2006

vitamin D, calcidiol, frailty, PTH

*Sodium and Cardiovascular Disease in Patients with CKD*

Jiang He, MD, PhD

Tulane University

2006

Sodium, electrolyte excretion, potassium, cardiovascular disease, cardiac outcomes

*Study of Advanced Chronic Renal Insufficiency*

Chi-yuan Hsu, MD, MSc

University of California, San Francisco

2006

progression, transition to ESRD, GFR

*KDQOL and the Spanish-Speaking CKD Population*

Julio Vijil, Jr., MD

University of Illinois, Chicago

2007

KDQOL, hispanic, HCRIC

*Health Literacy and Acculturation in Hispanic Patients with Chronic Kidney Disease*

Claudia Lora, MD

University of Illinois, Chicago

2007

HCRIC, health literacy, Hispanic, acculturation, risk factor, cardiovascular disease

*Genomics of myocardial transcription factors in cardiac remodeling*

Thomas P. Cappola, MD, ScM

University of Pennsylvania

2007

genetics, cardiac remodeling, transcription factors

*Pulse Wave Velocity and Chronic Kidney Disease*

Stephanie DeLoach, MD

Thomas Jefferson University

2007

pulse wave velocity, cardiovascular disease

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Corin Allele and Heart Disease*

Daniel L. Dries, MD

Yale University

2007

genetics, cardiovascular disease, natriuretic peptide system, cardiac hypertrophy, corin

*CRIC Plus – Race Group Analysis*

Vanessa Grubbs, MD, MPH

University of California, San Francisco

2007

racial disparities, progression, CRIC-plus, ESRD

*Carotid Intima-Media Thickness in Chronic Kidney Disease (Renewal)*

Sylvia Rosas, MD, MSCE

University of Pennsylvania

2007

carotid intima-media thickness, carotid plaque, progression, cardiac outcomes

*Using 2-D Gel to Identify Patterns of Urine Protein Excretion that Predict Loss of GFR*

Chi-yuan Hsu, MD, MSc

University of California, San Francisco

2008

two-dimension differential gel electrophoresis, GFR, proteinuria

*Molecular Predictors of Progressive Renal Failure in the Chronic Renal Insufficiency Cohort*

Matthias Kretzler, MD

University of Michigan

2008

progression, molecular predictors, biomarkers

*Clinical Outcomes of Pre-ESRD CKD Patients with Hepatitis C Infection*

Akinlolu O. Ojo, MD, PhD, MPH

University of Michigan

2008

HCV, pre-ESRD

*Genetic of Lipoprotein Metabolism and CVD in CKD*

Daniel J. Rader, MD

University of Pennsylvania

2008

lipoproteins, metabolism, genetics

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Role of FGF-23 in Mineral Metabolism and CVD in Pre-dialysis CKD*

Myles S. Wolf, MD, MMSc

University of Miami

2008

FGF-23, phosphate therapy, hyperphosphatemia, left ventricular mass

*The Renin-Angiotensin-Aldosterone System and Cardiac Arrhythmias*

Rajat Deo, MD

University of Pennsylvania

2009

atrial fibrillation, renin, aldosterone, angiotensin, cardiovascular disease

*CKD, Metabolic Syndrome and Cardiovascular Disease*

Harold I. Feldman, MD, MSCE

University of Pennsylvania

2009

metabolic syndrome, insulin resistance, cardiovascular disease, progression

*GWAS in CKD: The CRIC Study*

Harold I. Feldman, MD, MSCE

University of Pennsylvania

2009

GWAS, genetics, GFR, progression

*Chronic Kidney Disease Biomarker Validation*

Chi-yuan Hsu, MD, MSc and Kathleen D. Liu, MD, PhD, MAS

University of California, San Francisco

2009

biomarkers, kidney injury

*The Role of Neuregulin in Human Cardiac Remodeling and Heart Failure*

Bonnie Ky, MD, MSCE

University of Pennsylvania

2009

NRG-1, cardiac remodeling

*Hypertension in Advanced Chronic Kidney Disease*

Nisha Bansal, MD, MAS

University of California, San Francisco

2010

hypertension, progression, ESRD, blood pressure, cardiovascular disease

# CRIC Funded Ancillary Studies

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**Principal Investigator**

**University Affiliation**

**Year funded**

**Keywords**

*The Effect of Sick Cell Trait upon Progression of Chronic Kidney Disease*

Vimal Derebail, MD, MPH

University of North Carolina

2010

risk factors, sickle cell trait, hemoglobinopathy

*Elevated Nighttime BP – Clinical and Demographic Features, Correlates, and Changes Over Time*

Paul E. Drawz, MD, MHS

Case Western Reserve University

2010

hypertension, blood pressure, nighttime ABP

*Joint Analysis of Longitudinal Outcomes and Clinical Events in Chronic Kidney Disease Cohorts*

Tom Greene, PhD

University of Utah

2010

longitudinal analysis, statistical methods, multi-state models, causal models

*Health Literacy, Acculturation and Social Support in Hispanics with Chronic Kidney Disease*

Claudia Lora, MD

University of Illinois, Chicago

2010

HCRIC, health literacy, Hispanic, acculturation, risk factors, cardiovascular disease

*Validation of the Beck Depression Inventory in Hispanics with Chronic Kidney Disease*

Ana C. Ricardo, MD, MPH, MS

University of Illinois, Chicago

2010

Beck depression inventory, Hispanic, depression,

*Carbamylated LDL and Cardiovascular Events*

Sudhir V. Shah, MD

University of Arkansas

2010

carbamylated LDL, cardiovascular disease, risk factors, atherosclerosis

*Pulse Wave Velocity (Renewal)*

Raymond Townsend, MD

University of Pennsylvania

2010

pulse wave velocity, hemodynamics, blood pressure

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Modifiable and Novel Risk Factors for and Consequences of Acute Kidney Injury in the Setting of Chronic Kidney Disease: a CRIC Ancillary Study*

Amanda Hyre Anderson, PhD, MPH

University of Pennsylvania

2011

acute kidney injury, progression, mortality

*Do patient safety events account for adverse outcomes in CKD?*

Jeffrey Fink, MD

University of Maryland

2011

safety incidents, outcomes, metabolic disturbance

*Abrupt Transition to ESRD from CKD*

Chi-yuan Hsu, MD, MSc

University of California, San Francisco

2011

ESRD, transition

*CKD Blood Biomarker Discovery (sub-protocol of the CKD Biomarkers Consortium)*

Lesley Inker, MD, MS

Tufts University

2011

biomarkers, progression, proteomics

*Hispanic Chronic Renal Insufficiency Cohort (Renewal)*

James Lash, MD

University of Illinois, Chicago

2011

Hispanic, cardiovascular disease, progression

*Novel Paradigm to Understand Diabetic Complications*

Kumar Sharma, MD

University of California, San Diego

2011

mitochondria, urine metabolomics, nephropathy, retinopathy

*Cognitive Decline in Chronic Renal Insufficiency (Renewal)*

Manjula Tamura, MD, MPH and Kristine Yaffe, MD

Stanford University

2011

cognitive function, gfr, decline, oxidative stress markers

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Health Disparities in Chronic Kidney Disease*

James Lash, MD

University of Illinois, Chicago

2012

socioeconomic status, health literacy, health disparities

*Acidosis, Net Acid Excretion and Morbidity in CKD*

Julia Scialla, MD, MHS

Duke University

2012

metabolic acidosis, nutrition, bone and mineral metabolism, urinary electrolytes, progression, cardiovascular disease, mortality

*Genetics of Race and Disordered Mineral Metabolism in CKD*

Myles S. Wolf, MD, MMSc

Northwestern University

2012

phosphate, FGF23, klotho, CKD, CVD, genetics, ancestry, racial disparities

*Mexico Chronic Renal Insufficiency Cohort (MCRIC)*

James Lash, M.D.

University of Illinois, Chicago

2012

Chronic kidney disease progression, Hispanics, Mexico

*Metabolomic Studies in Chronic Kidney Disease*

Harold I. Feldman, MD, MSCE

University of Pennsylvania

2012

metabolomics

*Gender Disparities and Endogenous Estrogen in Chronic Kidney Disease Outcomes*

Ana Ricardo, MD, MPH, MS

University of Illinois, Chicago

2013

Sex hormones, gender disparities



# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Mediators & Prognostic Value of Muscle Mass & Function in Chronic Kidney Disease*

Perry Wilson, M.D.

Yale University

2013

Sarcopenia, creatinine generation rate, chronic kidney disease, myostatin, caspase-3, activin A, inflammation, tnf-alpha, tgf-beta, frailty

*FGF-23 and Clinical Outcomes in ADPKD Patients*

Myles S. Wolf, MD, MMSc

Northwestern University

2013

FGF23, CKD, ADPKD, phosphate

*Validation of the Kidney Knowledge Survey (KiKS) in Hispanics with Chronic Kidney Disease.*

Claudia Lora

University of Illinois at Chicago

2013

Hispanics, Chronic Kidney Disease Knowledge, Spanish language

*Estimating GFR from a Panel of Endogenous Filtration Markers (Panel eGFR)*

Lesley Inker

Tufts Medical Center

2013

GFR, beta trace protein, beta 2 microglobulin, cystatin C, creatinine

*Serum Bicarbonate and Cardiovascular Risk in Patients with Chronic Kidney Disease*

Mirela Dobre, M.D.

Case Western Reserve University

2013

metabolic acidosis, metabolic alkalosis, cardiovascular disease, mortality

*Role of Sclerostin in Disordered Mineral Metabolism in CKD*

Tamara Isakova, MD, MMSc

Northwestern University

2013

CKD, sclerostin, FGF23, PTH, phosphate

*Pathophysiological Role of Prorenin*

Alfred Cheung, M.D.

University of Utah

2013

Prorenin, chronic kidney disease, retinopathy, cardiovascular disease, diabetes

20240819

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Enhancing appreciation of the clinical significance of acute kidney injury*

Raymond Hsu

University of California, San Francisco

2013

Acute kidney injury (AKI), chronic kidney disease (CKD)

*Vitamin D catabolism in chronic kidney disease*

Ian de Boer

University of Washington

2013

Vitamin D, mineral metabolism, CKD

*Plasma KIM-1 and Chronic Kidney Disease*

Sushrut Waikar

Brigham and Women's Hospital

2014

Tubular injury; biomarkers of progression

*Novel metabolites associated with renal outcomes*

Tammy Sirich

Stanford University

2014

mass spectrometry, metabolomic, CKD

*Is there a digital divide in chronic kidney disease?*

Clarissa Diamantidis

Duke University

2014

CKD, health information technology, e-literacy, patient safety

*Performance of Vitamin D-Binding Protein (DBP) ELISA by Genotype: Validation using Mass Spectrometry*

Mary Leonard, Michelle Denburg

Stanford University/Children's Hospital of Philadelphia

2014

Vitamin D, vitamin D-binding protein, genotype

*Visceral adiposity and fitness among CRIC participants (phase 3)*

Sankar Navaneethan

Cleveland Clinic

2014

Obesity, fitness, and kidney disease

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**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Measures of fibrosis and clinical outcomes in chronic kidney disease*

Amanda Hyre Anderson, PhD, MPH

University of Pennsylvania

2015

fibrosis, CKD progression, cardiovascular disease, galectin-3, CTGF or CCN2, collagen type III, MMP-2

*Heart failure and arrhythmias in CKD*

Nisha Bansal, MD, MAS

University of California, San Francisco

2015

heart failure, prediction, cardiac arrhythmias, biomarkers

*Whole-exome sequencing study of diabetic nephropathy*

Tanika Kelly

Tulane University

2015

diabetic nephropathy; next-generation sequencing; whole-exome sequencing; rare variants; low frequency variants

*Longitudinal Changes in Metabolomic Biomarkers and CKD Progression*

Eugene Rhee

Massachusetts General Hospital/Broad Institute

2015

metabolomics, CKD, CKD progression

*Oxalate in CKD Pathogenesis and Progression*

Sushrut Waikar

Brigham and Women's Hospital

2015

oxalate; chronic kidney disease; cardiovascular disease; decline in GFR

*Epigenetic dysregulation in diabetic kidney disease*

Katalin Susztak

University of Pennsylvania

2015

cytosine methylation, epigenetics

*Prognostic biomarkers in chronic kidney disease*

Farsad Afshinnia

University of Michigan

2015

chronic kidney disease, progression, end stage renal disease, biomarker, metabolomics, Mass spectrometry

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Pilot Study on Proteomics of Kidney Disease Progression in the CRIC Study*

Rajat Deo

University of Pennsylvania

2015

proteomics, progressive kidney disease, SOMAscan

*Targeted Biomarkers of Chronic Kidney Disease (CKD) and its Complications*

Jeffrey Schelling

Case Western Reserve University

2015

Chronic kidney disease, diabetic nephropathy, biomarker, case-cohort study

*Identifying Modifiable Biomarkers/Mediators for Cardiovascular Disease in Chronic Kidney Disease*

Peter Ganz

University of California, San Francisco

2016

cardiovascular risk prediction model; chronic kidney disease; proteomics

*Tubular Secretion and Chronic Kidney Disease Complications*

Bryan Kestenbaum

University of Washington

2016

tubular secretion, biomarkers, kidney, hippurate

*Assessing the accuracy of information in the CMS Medical Evidence Report (form CMS-2728)*

Chi-yuan Hsu

University of California, San Francisco

2016

incident ESRD, co-morbidity, information bias

*Novel Diagnostics and Therapeutic Targets for Calcification in CKD*

Tamara Isakova

Northwestern University

2016

vascular calcification; calcification propensity; calciprotein particles

*Assessment of nicotine exposure from toenail clippings of CRIC participants*

Edgar Jaimes

MSKCC

2016

nicotine, smoking, chronic kidney disease (CKD)

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Metabolomics for Identifying Biomarkers of Dietary Intake & Kidney Disease Progression*

Casey Rebholz

Johns Hopkins University

2016

diet; metabolomics; kidney disease progression

*The Gut Microbiome and the metabolome in CKD*

Amanda Anderson

University of Pennsylvania

2016

gut microbiota, metabolomics, metabolic profiling, CKD

*Weight trajectory in chronic kidney disease and risk of adverse outcomes*

Elaine Ku

University of California, San Francisco

2016

Weight loss, BMI, CKD, ESRD

*Vitamin K status, CVD and arterial stiffness in chronic kidney disease: The Chronic Renal Insufficiency Cohort*

Kyla Shea

Tufts University

2017

Vitamin K, matrix gla protein, kidney function, CVD, arterial stiffness

*MicroRNAs in progressive renal disease – a pilot study in CRIC (MIRROR-TRIC)*

Christos Argyropoulos

University of New Mexico

2017

microRNAs, Chronic Kidney Disease, Proteinuria, RNA-seq, biomarkers, measures of renal function

*Developing and validating prognostic metabolomic signatures of diabetic kidney disease*

Loki Natarajan

University of California, San Diego

2017

Diabetic kidney disease; metabolomics; prognostic models; variable selection

*Health literacy and Self-Management in Chronic Kidney Disease: a CRIC Ancillary Study*

Sarah Schrauben

University of Pennsylvania

2017

Self-management; CKD progression; Health literacy

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Hispanic CRIC Study renewal*

James Lash

University of Chicago Illinois

2017

Hispanic/Latino; chronic kidney disease

*Soluble Fms-Like Tyrosine Kinase-1 (sFlt-1), Placental growth factor (PlGF) and CVD in Participants with CKD*

Saif Anwaruddin and Rajat Deo

University of Pennsylvania

2018

Cardiovascular disease, soluble Fms-Like Tyrosine Kinase-1, Placental growth factor (PlGF)

*The effects of protein carbamylation in chronic kidney disease (CKD)*

Sahir Kalim

Massachusetts General Hospital

2018

Protein carbamylation; CKD; kidney function; mortality; chronic renal insufficiency cohort (CRIC), CKD progression

*Statistical Methods for Genomics of CKD*

Andrea Foulkes

Mount Holyoke

2018

Genomics, biomarker trajectories, chronic kidney disease

*Acute kidney injury among patients with chronic kidney disease*

Chi Hsu

University of California, San Francisco

2018

Acute kidney injury (AKI)

*The role of functional iron deficiency in systemic complications of CKD*

Monique Cho

University of Utah

2018

Iron, chronic kidney disease, hepcidin, cardiovascular disease

*Cardiovascular disease risk and risk factors among adults with chronic kidney disease taking moderate or high intensity statins*

Paul Muntner

University of Alabama at Birmingham

2018

Chronic kidney disease, statins, cardiovascular disease

# CRIC Funded Ancillary Studies

**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Sleep disordered breathing as a predictor of outcomes in chronic kidney disease*

Ana Ricardo

University of Illinois at Chicago

2019

Sleep apnea, chronic kidney disease progression, cardiovascular disease

*Population-Based Limits of 24-Hour Urinary Creatinine Excretion*

Bryan Kestenbaum

2019

Urine creatinine, excretion, height, weight

*A Mixed Methods Study of Chronic Kidney Disease Self-Management*

Sarah Schrauben

University of Pennsylvania

2019

Self-management; CKD progression

*Dynamic Prediction of Renal Failure Using Longitudinal Prognostic Information among Patients with Chronic Kidney Disease and Kidney Transplant*

Liang Li

University of Texas MD Anderson Cancer Center

2019

Dynamic prediction; Prediction model; CKD; Kidney transplant; ESRD; Graft failure

*American Indian Chronic Renal Insufficiency Cohort Study (AI-CRIC Study)*

Vallabh Shah

University of New Mexico HSC

2019

Native American, Disparity, CKD, CVD

*Access to Health Care and Health Outcomes in Chronic Kidney Disease*

Stephanie Toth-Manikowski

University of Illinois

2019

Access to care, Healthcare Access, Chronic kidney disease, Health disparities

*Adiposity-obesity-related subgroups discovery and metabolomics analysis using machine learning algorithm for chronic kidney disease*

Emma Zheng

University of Pennsylvania

2019

Obesity, adiposity, metabolomics, patient subgroups, biomarkers, high dimensional data mining

# CRIC Funded Ancillary Studies

## **Study Title**

**Principal Investigator**

**University Affiliation**

**Year funded**

**Keywords**

*Characterization of Illness Representation Groups in Chronic Kidney Disease*

Eleanor Rivera

University of Pennsylvania

2019

Chronic kidney disease, illness representation, treatment adherence, health literacy, health care utilization

*sAREG in urine and serum as a biomarker of CKD severity and progression*

Andreas Herrlich

Washington University School of Medicine in St. Louis

2019

Amphiregulin (AREG), epidermal growth factor (EGF), epidermal growth factor receptor (EGFR)

*Health Disparities in Chronic Kidney Disease Mentoring Program*

Jim Lash

University of Illinois, Chicago

2019

Health disparities, chronic kidney disease, physical activity, sleep disorders

*Cleveland CRIC-KPMP Cohort (CCKC)*

Jonathan Taliercio

Cleveland Clinic

2020

KPMP, CRIC, kidney biopsy, biosample, kidney atlas

*Natarajan Inference for Functional Principal Components of Kidney Disease Progression in Diabetic Patients Across Albuminuria Groups in the Chronic Renal Insufficiency Cohort (CRIC) Study*

Loki Natarajan

UCSD

2020

Albuminuria; chronic kidney disease (CKD); clustering; diabetes; eGFR; functional data analysis; functional principal components analysis (FPCA); nonlinear; statistical inference; trajectory modeling

*Lp(a) and the risk for atherosclerotic cardiovascular events among adults with CKD and a history of atherosclerotic cardiovascular disease in the CRIC study*

Lisandro Colantonio

University of Alabama at Birmingham

2020

Lipoprotein(a), chronic kidney disease, cardiovascular disease.

*Metabolomics and tubular secretory status*

Eugene Rhee, Bryan Kestenbaum

Mass General Hospital

2020

Metabolomics, Tubular secretion, CKD



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**Study Title****Principal Investigator****University Affiliation****Year funded****Keywords**

*Metabolites and Neuro-Cognition, Sleep and Depression*

Eugene Rhee, Rakesh Malhotra

Mass General Hospital

2020

Metabolomics, CKD, Neurocognition, Sleep, Depression

Improving Kidney Function Assessment in Health and Disease

Lesley Inker

Tufts Medical Center

2020

GFR, metabolites, heart failure, race

Metabolomics and Tubular secretory status

Eugene Rhee, Kendra Wulczyn

Mass General Hospital

Amendment to Existing U01 (Rhee)

2020

Metabolomics, Tubular secretion, CKD

Elucidating the Biology of Cardiovascular Risk in Hemodialysis Patients Using Proteomics

Ruth Dubin

University of California San Francisco

2020

Proteomics, Hemodialysis

Establishing A New Diagnostic Paradigm for Peripheral Artery Disease among Patients with Chronic Kidney Disease

Jing Chen

Tulane University

2020

PAD, ABI, CKD

Patient perceptions about influenza vaccination in nephrology care

Junichi Ishigami

Johns Hopkins University

2021

Influenza vaccine, chronic kidney disease

Consequences of Clonal Hematopoiesis of Indeterminate Potential in Chronic Kidney Disease

Tanika Kelly

Tulane University

2021

CHIP, CKD, Inflammation

Metabolomics and HFpFF in CKD

Rupal Mehta

Northwestern University

2021

Metabolomics, CKD, HFpEF

20240819

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**Principal Investigator**

**University Affiliation**

**Year funded**

**Keywords**

CCC-Tobacco (Cross Cohort Collaboration)-a harmonized dataset created by pooling existing de-identified tobacco data across NHLBI-funded cohorts

Michael Blaha

Johns Hopkins University

2021

Cardiovascular disease, cigarette, smoking, subclinical atherosclerosis, tobacco

Genomics of Cardiovascular Disease in Chronic Kidney Disease

Nora Franceschini

Univ of North Carolina

2021

Polygenic risk score, eGFR equation, biomarkers of eGFR

Kidney Precision Medicine Project: UIC Chronic Kidney Disease Recruitment Site

James P. Lash

Univ of Illinois at Chicago

2021

KPMP, CKD, research kidney biopsy

Metabolomics Study of APOL1-Associated Progression of Chronic Kidney Disease

Changwei Li

Tulane University

2021

metabolomics, risk factors, epidemiology, *APOL1*, chronic kidney disease progression

Structural Racism vs. APOL1 Renal Risk Variants as Contributors to CKD Progression

Anthony Muiru

UCSF

2022

Structural racism, *APOL1*, CKD progression

Dynamic Longitudinal Functional Models with Application to the CRIC Study

Wensheng Guo, Wei Yang, Rajat Deo

University of Pennsylvania

2022

Functional inference, risk prediction, ECG, cardiovascular diseases, chronic kidney diseases

Leveraging Proteomics to Understand the Link between Chronic Kidney Disease and Cognitive Impairment

Lindsay Miller

University of California, San Diego

2022

Proteomics, CKD, Cognitive Impairment

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Proteomics of Coronary Artery Calcification and Bone Demineralization in the Chronic Renal Insufficiency Cohort

Ruth Dubin

University of Texas Southwestern

2022

Coronary artery calcification, Bone Mineral Density, CKD

Artificial Intelligence cardiac beat labeling for arrhythmia diagnosis and an association of rare ECG phenomena with clinical outcomes

Larisa Tereshchenko

Cleveland Clinic, Lerner Research Institute

2023

Machine learning, artificial intelligence, ECG

Use of Polygenic Risk Scores to Improve GFR Estimating Equation in CRIC

Nora Franceschini

University of North Carolina at Chapel Hill

2023

Polygenic risk score, eGFR equation, biomarkers of eGFR

Development of a Kidney Biomarker Panel to Detect and Quantify NSAID Damage among Persons with CKD

Michael Shlipak, Michelle Estrella

UCSF

2023

CKD, NSAIDs, biomarkers, Injury

Relationship of Chronic Kidney Disease to Aortic Stenosis Progression

Jordan Strom

Harvard

2023

Aortic stenosis, chronic kidney disease, progression

Functional Status in CKD: Risk factors for Frailty and Relationship to Outcomes

Sarah Schrauben

Upenn

2023

CKD, aging, frailty, functional status, physical function

Calcioprotein Particles and Vascular Calcification in Chronic Kidney Disease

Wei Chen

Albert Einstein College of Medicine

2024

Biomarker identification, calcioprotein Particle, endothelial markers, cardiovascular disease, mortality, chronic kidney disease

# CRIC Funded Ancillary Studies

***Study Title***

**Principal Investigator**

**University Affiliation**

**Year funded**

**Keywords**

Associations of mitochondria DNA copy number change and heteroplasmy with CKD progression

Changwei Li

Tulane University

2024

mtDNA copy number; mtDNA heteroplasmy; CKD progression