

## SPECIAL ISSUE

INVESTMENT IN GLOBAL HEALTH RESEARCH:  
A PUBLIC PRIVATE PARTNERSHIP

Guest Editors

GERALD S. BLOOMFIELD, K M VENKAT NARAYAN, and  
UCHECHUKWU K. A. SAMPSON

- 1 EDITOR'S PAGE** What Defines a Valuable Investment in Global Health Research?  
*Gerald S. Bloomfield, K. M. Venkat Narayan, Uchechukwu K. A. Sampson, and Jagat Narula*
- 5 REVIEW** Tackling NCD in LMIC: Achievements and Lessons Learned From the NHLBI–UnitedHealth Global Health Centers of Excellence Program  
*Michael M. Engelgau, Uchechukwu K. Sampson, Cristina Rabadan-Diehl, Richard Smith, Jaime Miranda, Gerald S. Bloomfield, Deshree Belis, and K. M. Venkat Narayan, for the National Health, Lung, and Blood Institute–UnitedHealth Global Health Centers of Excellence Collaborators*
- 17 REVIEW** Training and Capacity Building in LMIC for Research in Heart and Lung Diseases: The NHLBI–UnitedHealth Global Health Centers of Excellence Program  
*Gerald S. Bloomfield, Denis Xavier, Deshree Belis, Dewan Alam, Patricia Davis, Prabhakaran Dorairaj, Hassen Ghannem, Robert H. Gilman, Deepak Kamath, Sylvester Kimaiyo, Naomi Levitt, Homero Martinez, Gabriela Mejicano, J. Jaime Miranda, Tracey Perez Koehlmoos, Cristina Rabadán-Diehl, Manuel Ramirez-Zea, Adolfo Rubinstein, Katherine A. Sacksteder, Krisela Steyn, Nikhil Tandon, Rajesh Vedanthan, Tracy Wolbach, Yangfeng Wu, and Lijing L. Yan*
- 27 ORIGINAL RESEARCH** Prevalence of Pragmatically Defined High CV Risk and its Correlates in LMIC: A Report From 10 LMIC Areas in Africa, Asia, and South America  
*Rodrigo M. Carrillo-Larco, J. Jaime Miranda, Xian Li, Chendi Cui, Xiaolin Xu, Mohammed Ali, Dewan S. Alam, Thomas A. Gaziano, Rajeev Gupta, Vilma Irazola, Naomi S. Levitt, Dorairaj Prabhakaran, Adolfo Rubinstein, Krisela Steyn, Nikhil Tandon, Denis Xavier, Yangfeng Wu, and Lijing L. Yan*
- 37 ORIGINAL RESEARCH** Comparison of Nonblood-Based and Blood-Based Total CV Risk Scores in Global Populations  
*Thomas A. Gaziano, Shafika Abrahams-Gessel, Sartaj Alam, Dewan Alam, Mohammed Ali, Gerald Bloomfield, Rodrigo M. Carrillo-Larco, Prabhakaran Dorairaj, Laura Gutierrez, Vilma Irazola, Naomi S. Levitt, J. Jaime Miranda, Antonio Bernabe-Ortiz, Ankur Pandya, Adolfo Rubinstein, Krisela Steyn, Denis Xavier, and Lijing L. Yan*

*Continued on next page*

- 47 ORIGINAL RESEARCH** Hypertension Prevalence, Awareness, Treatment, and Control in Selected LMIC Communities: Results From the NHLBI/UHG Network of Centers of Excellence for Chronic Diseases  
*Vilma E. Irazola, Laura Gutierrez, Gerald Bloomfield, Rodrigo M. Carrillo-Larco, Prabhakaran Dorairaj, Thomas Gaziano, Naomi S. Levitt, J. Jaime Miranda, Antonio Bernabe Ortiz, Krisela Steyn, Yangfeng Wu, Denis Xavier, Lijing L. Yan, Jiang He, and Adolfo Rubinstein*
- 61 ORIGINAL RESEARCH** A Multiethnic Study of Pre-Diabetes and Diabetes in LMIC  
*Jia Shen, Dimple Kondal, Adolfo Rubinstein, Vilma Irazola, Laura Gutierrez, J. Jaime Miranda, Antonio Bernabé-Ortiz, María Lazo-Porras, Naomi Levitt, Krisela Steyn, Kirsten Bobrow, Mohammed K. Ali, Dorairaj Prabhakaran, and Nikhil Tandon*
- 71 ORIGINAL RESEARCH** Obesity and its Relation With Diabetes and Hypertension: A Cross-Sectional Study Across 4 Geographical Regions  
*Shivani A. Patel, Mohammed K. Ali, Dewan Alam, Lijing L. Yan, Naomi S. Levitt, Antonio Bernabe-Ortiz, William Checkley, Yangfeng Wu, Vilma Irazola, Laura Gutierrez, Adolfo Rubinstein, Roopa Shivashankar, Xian Li, J. Jaime Miranda, Muhammad Ashique Haider Chowdhury, Ali Tanweer Siddiquee, Thomas A. Gaziano, M. Masood Kadir, and Dorairaj Prabhakaran*
- 81 ORIGINAL RESEARCH** Prevalence, Patterns, and Correlates of Physical Activity Among the Adult Population in Latin America: Cross-Sectional Results from the CESCAS I Study  
*Rosana Poggio, Pamela Serón, Matías Calandrelli, Jacqueline Ponzio, Nora Mores, María G. Matta, Laura Gutierrez, Chen Chung-Shiuan, Fernando Lanás, Jiang He, Vilma Irazola, Adolfo Rubinstein, and Lydia Bazzano*
- 89 ORIGINAL RESEARCH** Is the “South Asian Phenotype” Unique to South Asians? Comparing Cardiometabolic Risk Factors in the CARRS and NHANES Studies  
*Shivani A. Patel, Roopa Shivashankar, Mohammed K. Ali, R. M. Anjana, M. Deepa, Deksha Kapoor, Dimple Kondal, Garima Rautela, V. Mohan, K. M. Venkat Narayan, M. Masood Kadir, Zafar Fatmi, Dorairaj Prabhakaran, and Nikhil Tandon, on behalf of the CARRS Investigators*
- 97 ORIGINAL RESEARCH** Markers of Atherosclerosis, Clinical Characteristics, and Treatment Patterns in Heart Failure: A Case-Control Study of Middle-Aged Adult Heart Failure Patients in Rural Kenya  
*Gerald S. Bloomfield, Allison K. DeLong, Constantine O. Akwanalo, Joseph W. Hogan, E. Jane Carter, Daniel F. Aswa, Cynthia Binanay, Myra Koech, Sylvester Kimaiyo, and Eric J. Velazquez*
- 109 ORIGINAL RESEARCH** Characteristics Associated With Antihypertensive Treatment and Blood Pressure Control: A Population-Based Follow-Up Study in Peru  
*J. Alfredo Zavala-Loayza, Catherine Pastorius Benziger, María Kathia Cárdenas, Rodrigo M. Carrillo-Larco, Antonio Bernabé-Ortiz, Robert H. Gilman, William Checkley, and J. Jaime Miranda, for the CRONICAS Cohort Study Group*

Continued on next page

- 121 ORIGINAL RESEARCH** The Relationship Between Socioeconomic Status and CV Risk Factors: The CRONICAS Cohort Study of Peruvian Adults  
*Renato Quispe, Catherine P. Benziger, Juan Carlos Bazo-Alvarez, Laura D. Howe, William Checkley, Robert H. Gilman, Liam Smeeth, Antonio Bernabé-Ortiz, and J. Jaime Miranda, for the CRONICAS Cohort Study Group*
- 131 ORIGINAL RESEARCH** Effectiveness of a Community-Based Intervention Program to Reduce Hypertension Prevalence Among Adults: Results of a Quasiexperimental Study With Control Group in the Region of Sousse, Tunisia  
*Jihene Sahli, Jihene Maatoug, Imed Harrabi, Sihem Ben Fredj, Emna Dendana, and Hassen Ghannem*
- 139 EDITORIAL COMMENT** Research Is Essential for Attainment of NCD Targets and Sustainable Development Goals  
*Shanthi Mendis*
- 141 EDITORIAL COMMENT** Chronic Disease Research Growing Global  
*K. Srinath Reddy*
- 143 EDITORIAL COMMENT** Public—Private Partnership in Countering NCD  
*Richard Smith and Cristina Rabadan-Diehl*
- 145 NEWS AND NOVEL PROGRAMS** The NHLBI—UnitedHealth Global Health Centers of Excellence Program: Assessment of Impact of Federal Funding Through a Social Network Analysis  
*Nancy L. Dianis, Tracy L. Wolbach, and Maura Spiegelman*
- 149 NEWS AND NOVEL PROGRAMS** Investing in Research Training to Improve Global Cardiovascular Health  
*Mark D. Huffman and Darwin R. Labarthe*
- 153 PERSPECTIVES FROM NHLBI** Implementation Research: The Fourth Movement of the Unfinished Translation Research Symphony  
*Uchechukwu K. A. Sampson, David Chambers, William Riley, Roger I. Glass, Michael M. Engलगau, and George A. Mensah*
- 159 PERSPECTIVES FROM NHLBI** Global Health Research  
*George A. Mensah*
- 165 PERSPECTIVES FROM NHLBI** Building a Platform to Enable NCD Research to Address Population Health in Africa: CVD Working Group Discussion at the Sixth H3Africa Consortium Meeting in Zambia  
*Emmanuel Peprah, Ken Wiley, Jennifer Troyer, Sally N. Adebamowo, Dwomoo Adu, Bongani M. Mayosi, Michele Ramsay, Ayesha A. Motala, Clement Adebamowo, Bruce Ovbiagele, and Mayowa Owolabi, of the H3Africa Cardiovascular Diseases Working Group and as members of the H3Africa Consortium*