

Dietary Reference Intakes for Energy

Committee

Anna Maria Siega-Riz

Chair

Anna Maria Siega-Riz was appointed Dean of the School of Public Health and Health Sciences at the University of Massachusetts Amherst in May 2019. Her research focuses on the first 1,000 days of life by understanding the influence of maternal weight status and dietary patterns and behaviors in the etiology of various pregnancy and child health outcomes. Her current funded research studies explores the concept of food reward and sensitivity among pregnant women and early determinants of childhood obesity, and the association of maternal preconceptional health with childhood eating and weight status among Hispanics. Other research interests include examining the determinants and consequences of food insecurity and the implications of food policy on health outcomes. Dr. Siega-Riz currently serves on the National Institute of Health's Council of Councils, National Academies of Sciences, Engineering, and Medicine's Health and Medicine Division Advisory Committee, the Food and Nutrition Board, and as a board of trustees member for the International Food Information Council. Dr. Siega-Riz served as a scientific advisory board member for Nurture, Inc., a subsidiary of Danone, from 2017 to 2019. She holds a B.S.P.H. from the University of North Carolina, Gillings School of Global Public Health, an M.S. in food, nutrition, and food service management from the University of North Carolina at Greensboro, and a Ph.D. in nutrition with a minor in epidemiology from the University of North Carolina, Gillings School of Global Public Health. She held the credentials of a registered dietitian from 1983–2014.

Regan L. Bailey

Member

Regan Bailey, Ph.D., M.S., M.P.H., R.D., is Associate Institute Director for the Institute for Advancing Health Through Agriculture and Professor of Nutrition at Texas A&M University. She previously served as a Professor of Nutrition Science at Purdue University, and as a Nutritional Epidemiologist and Director of Career Development at the National Institutes of Health, Office of Dietary Supplements. The focus of research in the Bailey lab is to improve the methods of measuring nutritional status to optimize health. She utilizes nationally-representative survey data to characterize the American dietary landscape, to identify the optimal methods for assessment of biomarkers of nutritional status, and importantly, to understand how dietary intakes relate to health outcomes. Her work has identified differences in nutritional exposures by gender, race, ethnicity, life stage, and income, suggesting the need for population-specific interventions and public health policy. She is the author of more than 150 peer-reviewed scientific publications and has been elected to the National Academy of Medicine for her research contributions. Dr. Bailey is a Registered Dietitian who completed a dietetic internship and M.S. in food and nutrition from the Indiana University of Pennsylvania. Dr. Bailey received her Ph.D. in nutrition science from The Pennsylvania State University and completed an M.P.H. from the Bloomberg School of Public Health at Johns Hopkins University. Dr. Bailey was a member of the 2021 National Academies' Committee on Scanning for New Evidence on Riboflavin to Support a Dietary Reference Intake Review.

Ethan M. Balk

Member

Ethan Balk is Associate Professor of Health Services, Policy, and Practice in the Center for Evidence Synthesis in Health and is Co-Director of the Brown Evidence-based Practice Center, both within the Brown University School of Public Health. Previously, he was based in the Center for Evidence-based Medicine at Tufts Medical Center. Dr. Balk is an internist with over 20 years of experience conducting and leading over 100 systematic reviews. He has led numerous systematic reviews and related reports for AHRQ, several NIH institutes and offices, the FDA, the CDC-sponsored Community Task Force, and the World Health Organization, among others. He has led numerous Evidence Review Teams collaborating with, and training, various clinical practice guideline development groups, particularly for Kidney Diseases: Improving Global Outcomes and the Society of Gynecologic Surgeons. Dr. Balk received his M.D. from Tufts University School of Medicine and his M.P.H. in epidemiology and biostatistics from Tufts University. Dr. Balk led the systematic review team to support the NASEM Committee on Evidence-Based Practices for Public Health Emergency Preparedness and Response in 2019 and 2020.

Susan I. Barr

Member

Susan Barr is Professor Emeritus at the University of British Columbia, Vancouver, Canada, where she enjoyed a long and varied research and teaching career. Her research interests included exploring associations among women's eating attitudes and cognitions, the menstrual cycle and bone health. She also conducted survey research, including dietary intake assessment. Dr. Barr is a member of the Canadian Nutrition Society and the American Society for Nutrition. She has received awards for research, teaching and service, including the Ryley-Jeffs Award (Dietitians of Canada), the Earle Willard Henry Award (Canadian Nutrition Society) and a Killam Teaching Award from the University of BC. Dr. Barr received her undergraduate degree in nutrition from UBC and completed her Ph.D. in nutrition at the University of Minnesota prior to beginning her career at UBC. She was a member and chair of the National Academies' Subcommittee on Interpretation and Uses of Dietary Reference Intakes (1998-2003), a member of the Standing Committee on Dietary Reference Intakes (2003-2005), and a member of the Committee for the Development of Guiding Principles for the Inclusion of Chronic Disease Endpoints in Future Dietary Reference Intakes (2016-2017).

Nancy F. Butte

Member

Nancy Butte was recognized as Distinguished Emeritus Professor upon her retirement from Baylor College of Medicine after a 36-year career at the USDA/ARS Children's Nutrition Research Center within the Department of Pediatrics. Dr. Butte's primary area of research is energy metabolism with an emphasis on infant and child energy requirements and maternal energy requirements during pregnancy and lactation. Through these studies her expertise developed in the fields of calorimetry, physical activity, childhood obesity, and genetics of obesity. In 2017 Dr. Butte was made Fellow of the American Society of Nutrition. She also was a member of the Society of Pediatric Research, the Obesity Society, and the American Dietetic Association. Dr. Butte received her M.P.H. in public health nutrition and her Ph.D. in nutritional sciences from the University of California, Berkeley. Dr. Butte served on the 1999-2001 Institute of Medicine Committee on Dietary Reference Intakes of Energy and Macronutrients. She also was a member of the 2001-2004 FAO/WHO/UNU Expert Consultation on Energy and Protein in Human Nutrition. She previously consulted with Nestlé on a recent publication in Current Developments in Nutrition on energy requirements in infants and young children. Also, relevant to setting the DRIs for pregnant women, Dr. Butte was a member of the 1988-1989 National Academy of Sciences Subcommittee on Nutritional Status and Weight Gain during Pregnancy and the 2008-2009 Institute of Medicine Committee on Reexamination of IOM Pregnancy Weight Guidelines.

Scott E. Crouter

Member

Scott E. Crouter, Ph.D. is currently an Associate Professor in the Department of Kinesiology, Recreation and Sport Studies and Director of the Applied Physiology Laboratory at The University of Tennessee Knoxville. He was previously an Assistant/Associate Professor at University of Massachusetts Boston (2007-2013) and was a Postdoctoral Associate at Cornell University in the Division of Nutritional Sciences (2005-2007). Dr. Crouter's main research interest is in the area of measuring physical activity and energy expenditure in adults and youth using wearable physical activity monitors. Related to this work he has received several NIH awards and has served on committees within the National Physical Activity Plan Alliance (U.S. report card for children and adolescents advisory committee) and Centers for Disease Control and Prevention and National Collaborative on Childhood Obesity Research (development of a youth compendium of physical activities). Dr. Crouter is a Fellow of the American College of Sports Medicine, Dr. Crouter's primary training has been in exercise physiology and received his Ph.D. from The University of Tennessee Knoxville (2005), M.S. from the University of Wisconsin - La Crosse (2000), and B.S. from Linfield College (1998).

Amy H. Luke

Member

Amy Luke is Professor and Chair of the Department of Public Health Sciences at the Parkinson School of Health Sciences and Public Health, Loyola University Chicago. She began at Loyola in the spring of 1994 as a post-doctoral fellow focused on the association of energy metabolism and chronic diseases. For the past 28 years, Dr. Luke has used objective measures, including doubly labeled water and accelerometry, to understand the impact of energy expenditure on obesity, hypertension, chronic kidney disease and diabetes in multiple African-origin populations across the epidemiologic transition; current research is being conducted in South Africa, Ghana, Seychelles, Jamaica, and the U.S. She is currently a member of the management group for the IAEA DLW Database and serves on the IAEA consultancy for the "Preparation of E4.30.37. Total Energy Expenditure Across the Life Course in Low and Middle-Income Countries". She is also a member of The Obesity Society and the American Public Health Association. Dr. Luke received her Ph.D. in human nutrition and nutritional biology at the University of Chicago where she was trained in stable isotopes and their application in nutrition research, including doubly labeled water.

Heidi J. Silver

Member

Heidi J. Silver is a Research Professor at Vanderbilt University Medical Center and a Health Scientist in the Veteran's Affairs Department of Research. Dr. Silver's research focuses on designing diet intervention trials that modify energy intake and the amounts and types of macronutrients consumed to improve energy balance, body composition, inflammatory state, and insulin sensitivity for cardiometabolic disease risk reduction. She established and directs the Vanderbilt Diet, Body Composition, and Human Metabolism Core. In 2020, she was selected for the Academy of Nutrition and Dietetics Excellence in Research Practice Award. She has published over 50 peer-reviewed articles, taught several academic courses, and created several webinars. Dr. Silver is an ad-hoc reviewer for 21 journals, has been invited to speak at >75 national meetings, and has been invited to present lectures or workshops in 9 different countries. Dr. Silver achieved her Ph.D. in nutrition in 2001 from Florida International University where she was honored with Doctoral Recognition of the Year and Outstanding Doctoral Scholarship Awards.

Janet Tooze

Member

Janet A. Tooze is Professor in the Department of Biostatistics and Data Science, Division of Public Health Sciences, at the Wake Forest School of Medicine. She is a biostatistician with expertise in statistical methods in nutrition, focused on dietary assessment and measurement error. She has developed methods for estimating the usual intake of foods and nutrients in a unified framework, termed the NCI Method, the foundation of which is a statistical model developed by Dr. Tooze for repeated measures data with excess zeroes. This method is used internationally to characterize population intakes of foods and nutrients and for risk assessment. She led the statistical validation of the Healthy Eating Index-2015, a widely used diet quality index. She has received three National Institutes of Health Merit Awards in recognition of her work in the advancement of dietary assessment. Dr. Tooze received an M.P.H. in public health from the Harvard School of Public Health and a Ph.D. in biometrics from the University of Colorado. She was a member of the 2017-2019 National Academies' Committee to Review the Dietary Reference Intakes for Sodium and Potassium.

William W. Wong

Member

William W. Wong, Ph.D., is Distinguished Emeritus Professor of Pediatrics at Baylor College of Medicine and Past Director of the Gas-Isotope-Ratio Mass Spectrometry Laboratory and Chairman of the Center-wide Equipment Maintenance/Repair Program at the USDA/ARS Children's Nutrition Research Center. Other than performing the first whole-room indirect calorimetric validation of the doubly labeled water (DLW) method, he was involved in many studies defining the energy requirements in infants, toddlers, adolescents, pregnant and lactating women, and women with twin pregnancy as well as adolescents with heart failure and cancer. In addition to his expertise in the stable isotope methods, he was the project director of a multi-site randomized placebo-controlled clinical study to document the efficacy and safety of soy isoflavones to prevent osteoporosis in menopausal women and the project director of Healthy Kids Houston, a community based program to promote healthy lifestyle among minority children with support from the City of Houston Parks and Recreation Department, the Houston Metropolitan Transit Authority, YMCA and the Houston Independent School District. He also led a team of pediatricians, dietitians, nutritionists, and a psychotherapist to develop the summer camp program, Kamp K'aana, to promote healthy lifestyle among obese children. The program is now an official program at the YMCA in Houston and Wisconsin. He was one of the original key scientists to help establish the International Atomic Energy Agency DLW Database. Dr. Wong will serve on the Data and Safety Monitoring Board for the Nutritional Interventions Planning Projects of the National Institute of Aging. He received his B.S. degree in Chemistry and his M.S. and Ph.D. degrees in Oceanography. In spite of his lack of official training in nutrition, biochemistry, and human physiology, he was able to develop research projects with diverse research interests and worked effectively in a multi-disciplinary setting.

Elizabeth A. Yetley

Member

Elizabeth A. Yetley retired from the Office of Dietary Supplements (ODS) at the National Institutes of Health (NIH) in 2008 having served as Senior Nutrition Research Scientist for four years. Subsequently, she was contracted by ODS for the next nine years to work on specific projects that were of interest to the organization. From 1980 to 2004, she worked as a nutrition scientist at the U.S. Food and Drug Administration (FDA), eventually attaining the rank of Lead Nutrition Scientist. Dr. Yetley provided leadership for several projects at both NIH and FDA that included health claims for nutrition labels, folic acid fortification, methodological challenges for assessing folate and vitamin D biomarkers of status, and systematic reviews for Dietary Reference Intakes, and other nutrition topics such as vitamin D and omega-3 fatty acids. She also provided regulatory leadership for infant formulas, medical foods, and dietary supplements. She received numerous awards from organizations including FDA, NIH, the Health and Human Services' Secretary, the American Society for Nutrition, the University of Massachusetts, and Iowa State University. She received her B.S., M.S., and Ph.D. in nutrition from Iowa State University. Dr. Yetley was a member of the 2017-2019 National Academies' Committee to Review the Dietary Reference Intakes for Sodium and Potassium and is currently a member of the Standing Committee for the Review of the Dietary Reference Intake Framework.