

The Role of Seafood Consumption in Child Growth and Development

Committee

Virginia A. Stallings

Chair

Virginia A. Stallings, M.D., is Professor of Pediatrics at the University of Pennsylvania Perelman School of Medicine, and Director of the Nutrition Center and the Jean A. Cortner Endowed Chair in Gastroenterology and Nutrition at Children's Hospital of Philadelphia. Her research interests include pediatric nutrition, evaluation of dietary intake and energy expenditure, and nutrition-related chronic disease. Dr. Stallings has served on several National Academies of Sciences, Engineering, and Medicine Committees: Committee on Food Allergies: Global Burden, Causes, Treatment, Prevention, and Public Policy; Committee on Nutrition Standards for National School Lunch and Breakfast Programs; Committee on Nutrition Services for Medicare Beneficiaries; Committee on the Scientific Basis for Dietary Risk Eligibility Criteria for WIC (Women, Infants, and Children) Programs; Committee to Review the WIC Food Packages (2003); the Committee to Review Child and Adult Care Food Program Meal Requirements; and the Committee to Review the Dietary Reference Intakes for Sodium and Potassium. She is a former member (1997-2000) and co-vice chair (2000-2002) of the Food and Nutrition Board. Dr. Stallings is board certified in pediatrics and clinical nutrition. She received the Fomon Nutrition Award from the American Academy of Pediatrics. Dr. Stallings is a member of the Board of Trustees of the Philadelphia College of Osteopathic Medicine and has served as a member of the Board of Directors for Danone. Dr. Stallings earned a B.S. in nutrition and foods from Auburn University, a M.S. in human nutrition and biochemistry from Cornell University, and a M.D. from the University of Alabama in Birmingham School of Medicine. She is a member of the National Academy of Medicine

Laurie Chan

Member

Professor Laurie Hing Man Chan has been a Professor and Canada Research Chair (Tier 1) in Toxicology and Environmental Health at the University of Ottawa since 2011. He was a Founding Member of the Centre for Indigenous Peoples Nutrition and Environment at McGill University and the holder of a BC Leadership Chair in Aboriginal Health at the University of Northern British Columbia. Prof. Chan is a world-renowned expert in mercury toxicology and has worked with Indigenous populations for over 30 years. Prof. Chan's research in environmental and nutritional toxicology spans from the lab developing new techniques for contaminant analysis to participatory research in the community on the risk and benefits of traditional foods and the impact of environmental change on food security. He is the Principal Investigator of the First Nations Food, Nutrition and Environment Study (FNFNES) and the Food, Environment, Health, and Nutrition of First Nations Children and Youth (FEHNCY) Study. Prof. Chan has published over 300 peer-reviewed scientific papers and supervised over 90 graduate students. He has also served as an advisor for international and national governments and organizations and numerous Indigenous communities on environmental health issues. He was a member of Expert Consultation by the World Health Organization/Food Agriculture Organization on the Risks and Benefits of Fish Consumption in 2010. Prof. Chan is a Fulbright Scholar and a Fellow of the Canadian Academy of Health Sciences.

Elaine M. Faustman

Member

Dr. Elaine Faustman received her BA degree from Hope College with a dual degree in Chemistry and Biology, PhD from Michigan State University in Pharmacology and Toxicology and her Post-doctoral fellowship in Pharmacology, Pediatrics and Pathology. Her previous service has included Adjunct Professorship (approx. 10 years) in the Department of Engineering and Public Policy at Carnegie Mellon University, Pittsburgh, PA and she currently is Adjunct Professor, Daniel J. Evans School of Public Policy and Governance at the University of Washington. She is an elected fellow of the American Association for the Advancement of Science, the Society for Risk Analysis and the Washington State Academy of Science. Her past service has included membership on the USEPA Science Advisory Board, NIEHS National Advisory Environmental Health Sciences Council, and NTP Board of Scientific Counselors. She has served as the Secretary General for IUTOX and as co-chair of the steering committee of the International Science Council World Data Systems and the Health Professionals Advisory Board for the International Joint Commission (US and Canada) for Boundary Waters. She is also a member of the Nippon Foundation of Tokyo, Japan. Her research expertise is on identifying molecular mechanisms of developmental, reproductive, and neuro toxicants, characterizing in vitro techniques for toxicology assessment, and developing the biological basis for dose-response and cost benefit models. She has directed the NSF and NIEHS Center for Oceans and Human Health at the University of Washington. She has over 250 peer reviewed research publications and reports including co-editorship of a Handbook for Life Course Health Studies. Her service on National Academies committees includes Chair of the Committee for Developmental Toxicology, Chair of recent workshops for EPA (AI and Triangulation), and membership of the Upper Limits subcommittee, Food and Nutrition Board, IOM. Research efforts include her leadership as PI for the EPA Predictive Toxicology Center and her work with NIEHS and NICHD directing various Children's Cohort Studies.

Claude E. Fox

Member

Dr. Fox is currently a professor emeritus of the University of Miami Miller School of Medicine and he retired as a research professor of the Department of Epidemiology and Medicine there in 2006. He previously was the founding director of the Johns Hopkins Urban Health Institute and the Florida Institute for Health Innovations as well as founding chair of the Editorial Board, Progress in Community Health Partnerships: Research, Education and Action, Johns Hopkins University Press.

Dr. Fox served on the first NAS Committee, Seafood Choices: Balancing Benefits and Risks and was co-chair of the Nutrition Policy Board for Health and Human Services (HHS). He also was co-chair of the federal HHS Steering Committee Implementing the Children's Health Insurance Program passed by Congress and chairman of the Steering Committee for the HHS Healthy People 2000 plan.

He was awarded the Alumnus of the Year from the University of North Carolina, School of Public Health in 1999 and the John Farrell Prize for Outstanding Contributions to Preventive Medicine and Public Health, University of North Carolina in 2001. Dr. Fox has served as the President of the Association of State and Territorial Health Officials and Chair of the Alabama Task Force on Prevention and Prenatal Care.

In addition to his Master's of Public Health in Maternal and Child Health at the University of North Carolina, Dr. Fox is board certified in Preventive Medicine and Public Health and he received pediatric clinical training at the University of Mississippi and the Johns Hopkins Hospital in Baltimore.

Delbert M. Gatlin, III

Member

Delbert M. Gatlin III is a Regents Professor in the Department of Ecology and Conservation Biology and member of the Intercollegiate Faculty of Nutrition at Texas A&M University. He has had an academic appointment with Texas A&M University since 1987. Dr. Gatlin's research program encompasses many different aspects of fish nutrition in support of aquaculture including determination of requirements for and metabolism of various nutrients, as well as development and evaluation of diet additives, formulations and feedstuffs for various fish species including channel catfish, hybrid striped bass, red drum and tilapia. The targeted goal of his research program is improving sustainability and production efficiency in aquaculture and enhancing the health and well-being of cultured organisms. Gatlin was Vice Chair of the Committee on Nutrient Requirements of Fish and Shrimp of the National Academies from 2009-2010. He has co-authored over 300 peer-reviewed journal articles, 19 book chapters and four books. Gatlin has been Nutrition Section Editor for the journal Aquaculture since 2009 and Editor-In-Chief since 2019. Dr. Gatlin earned a B.S. in fisheries/aquaculture from Texas A&M University in 1980 and a Ph.D. in nutritional biochemistry from Mississippi State University in 1983. He is also a Certified Fisheries Scientist and member of the American Fisheries Society, World Aquaculture Society and American Society for Nutrition.

Julie Herbstman

Member

Julie B. Herbstman is a Professor in the Department of Environmental Health Sciences, Director of the Columbia Center for Children's Environmental Health, and Director of the Certificate Program in Molecular Epidemiology at the Columbia University Mailman School of Public Health. Her research evaluates the associations between prenatal and early life environmental exposures and childhood outcomes primarily using longitudinal birth cohort studies. She has studied effects of exposures including polybrominated diphenyl ethers (PBDE), per- and polyfluoroalkyl substances (PFAS), polychlorinated biphenyls (PCB) and polycyclic aromatic hydrocarbons (PAH) on child growth and neurodevelopment. Her research also incorporates biomarkers, including epigenetic measures. Dr. Herbstman has been appointed to the New York State Drinking Water Quality Council for a 2-year duration beginning April 29, 2022. Dr. Herbstman received a PhD in environmental epidemiology from Johns Hopkins University and completed postdoctoral training in environmental health sciences from Columbia University.

Margaret R. Karagas

Member

Margaret R. Karagas is the James W. Squires Professor and founding chair of the Department of Epidemiology at the Geisel School of Medicine at Dartmouth College and Director of their Center for Molecular Epidemiology. Her research encompasses interdisciplinary studies to illuminate the etiology of human cancers as well as adverse pregnancy and children's health outcomes. Her work seeks to identify emerging environmental exposures, host factors and mechanisms -- that impact health from infancy to adult life, and to apply novel methods and technologies to understand disease pathogenesis. Among her current investigations is a rural cohort study of pregnant women and their offspring in northern New England designed to identify the sources and impacts of nutrient and toxicant elements on childhood infection, allergy/atopy, growth and neurodevelopment. Her collaborative studies examine a broad range of exposure biomarkers, individual susceptibility, and biological response to environmental agents including the developing microbiome and immune response. Further, she has participated in synthesis papers on mercury and arsenic in food. She has served on international consensus panels (e.g., International Agency for Research on Cancer Monograph Program and European Food Safety Authority Scientific Opinions), and on expert committees for the US National Cancer Institute, Environmental Protection Agency and National Academies of Sciences, Engineering and Medicine. Dr. Karagas is an invited speaker at the NIH Workshop "Bridging the Biological and Communication Sciences on Nutrients and Environmental Contaminants in Foods to Support Child Development" on February 9-10, 2023, and is a member of the Inorganic Arsenic Review Panel of the Scientific Advisory Board (SAB) that will provide independent advice through the chartered SAB on EPA's draft IRIS Toxicological Review of Inorganic Arsenic. She received her PhD in epidemiology from the University of Washington.

Sibylle Kranz

Member

Sibylle Kranz, Ph.D., RDN, FTOS, is tenured Associate Professor with primary appointment in the Department of Kinesiology, School of Education and Human Development. She holds an adjunct Associate Professor appointment in the Department of Public Health Sciences, School of Medicine, at the University of Virginia. As Registered Dietitian with a PhD in Nutrition Epidemiology from the University of North Carolina at Chapel Hill, she is the Director of UVA's Diet and Nutrition laboratory and her research focusses on the role of dietary intake in children and the relationship between diet and health as well as changing dietary intake behavior. She conducts clinical feeding trials in laboratory and community settings serving young children in addition to performing epidemiologic research on diet quality and intake patterns in the US, UK, and China. She was PI or co-PI on several systematic literature reviews and metanalysis. Prior to arriving at UVA, she was senior lecturer at the University of Bristol, United Kingdom (2014-2016), Associate Professor and Director of the Coordinated Undergraduate Program in Dietetics at Purdue University (2009-2014), faculty at East Carolina University (2008-2009), and The Pennsylvania State University (2002-2008) in Nutrition departments. Dr. Kranz taught multiple courses in introduction to nutrition, lifecycle nutrition, diet therapy, and nutrition counseling at the undergraduate and graduate level. She is actively engaged in a number of professional organizations as member of The Obesity Society (since 2002) where she was awarded Fellow status since 2007, The American Public Health Association where she served as Chair of the Food and Nutrition Section (2009), the American Society of Nutrition (Chair of the Nutrition Education and Behavioral Sciences RIS (2022-24), member of The American College for Sport Medicine and The Academy of Nutrition and Dietetics. She also held appointed or elected leadership positions for the Accreditation Council for The Academy of Nutrition and Dietetics to help guide the education standards and performance standards for future Registered Dietitians.

Maureen Lichtveld

Member

Dr. Maureen Lichtveld is the Dean of the School of Public Health, the Jonas Salk Chair in Population Health, and Professor of Environmental and Occupational Health at the University of Pittsburgh with over 35 years of expertise in environmental health. As Dean, Dr. Lichtveld oversees seven academic departments, over 900 students, 165 faculty and 320 staff. Her research focuses on environmentally-induced disease, health disparities, climate and health, environmental health policy, disaster preparedness, public health systems, and community resilience. Dean Lichtveld is a member of the National Academy of Medicine (NAM), the NAM Council, and a member of many NAM and National Academies of Sciences Boards, Roundtables, and Committees. She serves on the Advisory Committees for the NASEM Climate Communications Initiative and the Division of Earth and Life Sciences. Dean Lichtveld is the Chair of the Consortium of Universities for Global Health (CUGH). She has co-authored the textbook on Environmental Policy and Public Health. Honors include Johns Hopkins University Society of Scholars, and Woman of the Year for the City of New Orleans for her contributions to science.

Charles A. Nelson, III

Member

Charles A. Nelson III, PhD, is currently Professor of Pediatrics and Neuroscience and Professor of Psychology in the Department of Psychiatry at Harvard Medical School, and Professor of Education in the Harvard Graduate School of Education. He also holds the Richard David Scott Chair in Pediatric Developmental Medicine Research at Boston Children's Hospital, and serves as Director of Research in the Division of Developmental Medicine. His research interests center on a variety of problems in developmental cognitive neuroscience, including: the development of social perception; developmental trajectories to autism; and the effects of early adversity on brain and behavioral development. Among his many honors he has received the Leon Eisenberg award from Harvard Medical School, an honorary Doctorate from Bucharest University (Romania), was a resident fellow at the Rockefeller Foundation Bellagio (Italy) Center, has been elected to the American Academy of Arts and Sciences, the National Academy of Medicine, the British Academy and along with Professors Fox and Zeanah has received the Ruane Prize for Child and Adolescent Psychiatric Research from the Brain & Behavior Research Foundation. In 2021 he received the Klaus J. Jacobs Research Prize and in 2023 he received the Society for Research in Child Development (SRCD) Distinguished Scientific Contributions to Child Development award. In 2023, Dr. Nelson was retained by the law firm representing the plaintiffs in a class action suit to specifically address whether the educational deprivation experienced by children residing in state-run or privately run residential care settings in New Hampshire caused long term harm.

Emily Oken

Member

Emily Oken, MD, MPH, is Professor in the Department of Population Medicine at Harvard Medical School and Harvard Pilgrim Health Care Institute. She is also Professor in the Department of Nutrition at the Harvard TH Chan School of Public Health. Dr. Oken directs the Division of Chronic Disease Research Across the Lifecourse within the Department of Population Medicine. Her research focuses on the influence of nutrition and other modifiable factors during pregnancy and early childhood on long-term maternal and child health, including growth, cardiometabolic health, asthma, atopy, and cognitive development. She has also led a number of studies examining women's health outcomes across the lifecourse, from the peripartum period through midlife. Her work on the toxicant risks and nutrient benefits of prenatal fish consumption has influenced national guidelines for fish consumption during pregnancy, helping to shift the previous focus of risk-only or benefit-only studies to a broader emphasis on the overall health effects of fish consumption for mother and baby. She authors the Chapter on Fish Consumption during Pregnancy for UpToDate, an online Medical Textbook. She is, in a non-affiliate capacity, currently participating in an expert consensus group, with a focus on high dose DHA supplementation and recommendations for the prevention of pre-term birth. Additionally, she has volunteered to participate on the World Health Organization's expert panel on seafood, with anticipated deliberations and consensus recommendations in October of 2023. She has led longitudinal studies commencing in the peripartum period and following mothers and children throughout childhood including related original qualitative and quantitative research. She has served on committees to develop nutrition guidelines both nationally and internationally, authored reviews and perspectives, and has participated in FDA and EPA sponsored conferences. For the National Academy of Medicine, she has served on the Committee for Evaluating the Process to Develop the Dietary Guidelines for Americans, 2020-2025; as a Planning Committee Member for the 2020 workshop on Nutrition in Pregnancy; and as a Planning Committee Member for the Food Forum's 2023 workshop on Dietary Patterns and Diet-Related Chronic Diseases Across the Lifespan. She has been invited to serve on the NICHD Board of Scientific Counselors. Dr. Oken received her MD from Harvard Medical School her MPH from the Harvard School of Public Health. She completed her internship and residency in internal medicine and pediatrics, and fellowship in general internal medicine and primary care, at Harvard Medical School.

Ian J. Saldanha

Member

Ian J. Saldanha, M.B.B.S., M.P.H., Ph.D., is an associate professor of epidemiology at the Johns Hopkins Bloomberg School of Public Health. He also holds a joint appointment as associate professor of health services, policy, and practice at the Brown University School of Public Health. When at Brown (2018-2022), he was assistant director of the Brown University Evidence-based Practice Center, which is one of nine such centers funded by the Agency for Healthcare Research and Quality (AHRQ). Dr. Saldanha has expertise conducting systematic reviews and meta-analyses, developing and advancing methods to improve them, and teaching methods for their conduct. He has also researched the use of outcomes in clinical research. Dr. Saldanha has served on two National Academies of Sciences, Engineering, and Medicine's Committees: on (1) Scanning New Evidence on Nutrient Content of Human Milk and (2) Scanning for New Evidence on Riboflavin to Support a Dietary Reference Intake Review. Dr. Saldanha was the co-principal investigator (PI) of a National Academies contract to conduct a systematic review of public health emergency preparedness activities. He has been the PI of four AHRQ- funded systematic reviews: (1) management of primary headaches during pregnancy, (2) breast reconstruction after mastectomy, (3) postpartum care up to 1 year after delivery, and (4) postpartum management of hypertensive disorders of pregnancy. Additionally, he has been the PI of multiple AHRQ contracts to develop, advance, maintain, and support the Systematic Review Data Repository. Dr. Saldanha is an elected member of the Society for Research Synthesis Methodology and currently serves as its treasurer. He has served as the associate editor for various journals (e.g., Trials, Systematic Reviews, Journal of Glaucoma) and for the AHRQ Effective Healthcare Program. Dr. Saldanha has taught multiple courses and workshops related to systematic reviews, meta-analysis, clinical trials, and epidemiology at the undergraduate, graduate, and professional levels at various universities.

Ann L. Yaktine

Staff Officer