

The Faculty of Medicine of Harvard University
Curriculum Vitae

Date Prepared: April 1, 2025
Name: Izzuddin Bin Mohd Aris
Office Address: Landmark Center, 401 Park Dr, Ste 401E, Boston MA, 02215
Work Phone: +1-617-867-4239
Work Email: izzuddin_aris@hphci.harvard.edu

Education:

2010	B.Sc (Hons)	Biomedical Sciences	National University of Singapore
2015	Ph.D	Epidemiology	National University of Singapore

Postdoctoral Training:

02/2015 - 08/2017	Research Fellow	Epidemiology – Developmental Origins of disease	Singapore Institute for Clinical Sciences
09/2017 - 08/2019	Postdoctoral Research Fellow	Epidemiology – Developmental Origins of disease	Harvard Medical School and Harvard Pilgrim Health Care Institute
09/2019 - 02/2020	Senior Fellow	Epidemiology – Developmental Origins of disease	Harvard Medical School and Harvard Pilgrim Health Care Institute

Faculty Academic Appointments:

03/2020 - 09/2020	Member of the Faculty	Population Medicine	Harvard Medical School
10/2020 - Present	Assistant Professor	Population Medicine	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions:

03/2020 - Present	Institute Faculty	Population Medicine	Harvard Pilgrim Health Care Institute
-------------------	-------------------	---------------------	--

Major Administrative Leadership Positions:

Local

2021 - Present	Co-director, Clinical Epidemiology and Population Health: Essentials of the Profession	Harvard Medical School
----------------	--	------------------------

Committee Service:

Local

2020 - 2022	Member, Scholarship Oversight Committee for Caitriona McGovern	Division of Gastroenterology and Nutrition, Department of Pediatrics, Boston Children’s Hospital
2020 - Present	Co-chair, Collaboration and Culture Working Group	Division of Chronic Disease Research Across the Lifecourse Strategic Planning, Harvard Pilgrim Health Care Institute
2020 - Present	Member, Education and Training Working Group Committee	Division of Chronic Disease Research Across the Lifecourse, Department of Population Medicine, Harvard Pilgrim Health Care Institute
2021 - Present	Member, Diversity, Equity, and Inclusion Committee– Community Outreach & Mentoring Subcommittee	Department of Population Medicine, Harvard Pilgrim Health Care Institute
2022 - 2023	Member, PhD committee for Ekaterina Sadikova	Department of Epidemiology, Harvard TH Chan School of Public Health
2024	Member, Excellence in Mentoring Awards Advisory Committee	Office for Diversity Inclusion and Community Partnership, Harvard Medical School
2024	Member, Strategic Planning Development Committee	Department of Population Medicine, Harvard Pilgrim Health Care Institute
2024 - 2026	Member, Scholarship Oversight Committee for Sabrina Karim	Division of Gastroenterology and Nutrition, Department of Pediatrics, Boston Children’s Hospital

National

2022 - Present	Member, Environmental influences on Child Health Outcomes (ECHO) Publications Committee	National Institutes of Health
2023 - 2024	Member, PhD committee for Medhin Haile	Department of Epidemiology, Virginia Commonwealth

University School of Public Health

2024 - Present Associate Chair, Environmental influences on Child Health Outcomes (ECHO) Publications Committee National Institutes of Health

Professional Societies

2018 - Present Society of Pediatric and Perinatal Epidemiology Research
2019 - Present Abstract reviewer for annual conference
2023 Poster judge for annual conference
2023 - Present Conference Program Planning Committee
2018 - Present US Society for Developmental Origins of Health and Disease
2020 - 2023 American Society of Nutrition
2020 - 2023 International Epidemiological Association
2020 - 2022 Society for Epidemiology Research
2021 - 2022 Abstract reviewer for annual conference
2020 - 2022 The Obesity Society (TOS)
2022 - Present American Heart Association
2022 - Present International Society for Developmental Origins of Health and Disease
2022 Poster judge for biannual conference
2022 Abstract reviewer for biannual conference
2023 - Present Chair, Professional Development Sub-Committee

Grant Review Activities:

2022 KU Leuven (University of Leuven, Belgium) Grant reviewer
2022 Medical Research Council, United Kingdom Grant reviewer
Research and Innovation
2023 Sidra Medicine, Qatar Grant reviewer
2024 American Heart Association Grant reviewer

Editorial Activities:

- **Ad hoc Reviewer**

Circulation; JAMA Pediatrics; JAMA Network Open (Top 5% Reviewer Recognition); PLOS Medicine; Lancet Child and Adolescent Health; Lancet Regional Health – Americas; BMC Medicine; International Journal of Epidemiology; Metabolism; Obesity Reviews; Diabetologia; American Journal of Clinical

Nutrition; Journal of Clinical Endocrinology and Metabolism; Pediatrics; Human Reproduction; Epidemiology; International Journal of Obesity; Journal of Nutrition; Clinical Nutrition; European Journal of Nutrition; Clinical Epidemiology; American Journal of Epidemiology; Scientific Reports; Journal of the American Heart Association; Obesity; Frontiers in Endocrinology; Pediatric Obesity; Journal of Pediatrics; Pediatric Diabetes; British Journal of Nutrition; Obesity Facts; Obesity Research and Clinical Practice; BMJ Open; Pediatric and Perinatal Epidemiology; Childhood Obesity

- **Other Editorial Roles**

2024	Guest Editor		Biology of Sex Differences
------	--------------	--	----------------------------

Honors and Prizes:

2010	Dean’s List	National University of Singapore	For achieving exam results in top 1% of the cohort
2011	Research Scholarship	National University of Singapore	Full funding for PhD studies
2016	Young Investigator Award	Nestle Nutrition Institute	Best research paper for Nestle Nutrition Institute Young Investigator Award competition
2017	Rising Star Award	Australian and New Zealand Obesity Society	Recognition of potential and achievements to become a research leader in the field of obesity
2017	Overseas Postdoctoral Fellowship	National University of Singapore	Full funding for postdoctoral training
2019	NIH Travel Award	National Institutes of Diabetes and Digestive and Kidney Disease	Full funding for conference presentation
2021	Outstanding Manuscript Award	Nutrition Obesity Research Center at Harvard	Annual award for Outstanding Research Papers
2021	Scientific Award	US Developmental Origins of Health and Disease Society	Full funding for conference presentation
2022	Rising Star Award	Society of Pediatric and Perinatal Epidemiology Research	Recognition of potential and achievements to become a research leader in the field of reproductive, perinatal, and pediatric epidemiology
2022	Young Mentor Award	Harvard Medical School	Recognition of faculty who are still in the early

			stages of their career, but are devoting their time to providing mentoring for others
2022	Outstanding Abstract Award	US Developmental Origins of Health and Disease Society	Full funding for conference presentation
2023	Outstanding Young Alumni Award	National University of Singapore	Recognition of alumni aged 40 and below who have distinguished themselves in their chosen fields

Report of Funded and Unfunded Projects

Past

- 2019 - 2022 Title: Pre- and Peri-natal Predictors of Childhood Obesity
 Funding agency: NIH/NICHD R01 HD034568
 Role: Co-investigator (PI: Emily Oken)
 Description: This project is aimed at characterizing health trajectories from (before) birth through adolescent transitions using novel ‘omics and biostatistical approaches to quantifying causal and modifiable determinants in participants aged 15-18 in Project Viva.
- 2019 - 2023 Title: Long-term health consequences of birth by cesarean section
 Funding agency: NIH/NICHD 1R01 HD093761
 Role: Co-investigator (PI: Jorge E. Chavarro)
 Description: The overarching goal of the grant is to leverage already collected, de-identified data from Project Viva and the Vitamin D Antenatal Asthma Reduction Trial (VDAART), both prospective longitudinal cohorts of mothers and children, to examine the associations of birth by cesarean delivery with long-term chronic disease risk, including obesity, Type 2 diabetes, cardiovascular disease, and common cancers.
- 2020 - 2021 Title: Dynamic Change Processes in Growth Trajectories from Infancy to Early Adolescence
 Funding agency: NIH/OD A03-3828
 Role: Subaward Principal investigator (PI: Chang Liu)
 Description: The overarching goal is to characterize and identify predictors of long-term dynamic change processes for key child phenotypes within two ECHO outcome domains: body mass index (Obesity), and aggressive behavior (Neurodevelopment) using two innovative and complimentary longitudinal data analysis approaches, the multiphase latent growth mixture model, and the multilevel location-scale model.
- 2021 - 2022 Title: Neighborhood Opportunities and Disparities in Child Health Outcomes.
 Funding agency: Harvard Pilgrim Health Care Institute Faculty Grant
 Role: Principal Investigator
 Description: The overall goals of this proposal are to characterize publicly

available metrics that represent aspects of neighborhood disadvantage (Area Deprivation Index, Social Vulnerability Index) and opportunity (Child Opportunity Index) among children within the Project Viva cohort, and examine the extent to which these metrics are related to disparities in child outcomes including obesity, asthma and cardiometabolic health.

2021 - 2023

Title: Neighborhood Opportunities and Disparities in Child Health Outcomes: A Nationwide US Multi-cohort Study

Funding agency: NIH/OD U2C OD023375-06

Role: Principal Investigator; Total direct costs – (\$142,751)

Description: The overall goals of this proposal are to characterize publicly available metrics that represent aspects of neighborhood disadvantage (Area Deprivation Index, Social Vulnerability Index) and opportunity (Child Opportunity Index) among children within the Environmental influences on Child Health Outcomes (ECHO) program and examine the extent to which these metrics are related to disparities in child outcomes such as obesity and asthma.

Current

2022 - 2027

Title: Prenatal environmental determinants of health in young adulthood: a lifecourse approach

Funding agency: NIH/NICHD 2R01 HD034568-20

Role: Co-Investigator (MPIs: Emily Oken, Marie-France Hivert)

Description: The overall goals of this proposal are to examine the extent to which prospectively-collected measures of prenatal maternal behaviors and biology (e.g. diet, smoking, inflammation, blood pressure, glycemia, weight gain, depressive/anxiety symptoms), as well as elements of the chemical and social environments (e.g. metals, PFAS, air pollution, material hardship, neighborhood deprivation) are related to cardiometabolic, reproductive, and experiential health outcomes in young adulthood.

2023 - 2025

Title: Neighborhood Vulnerability and Menopause and Cardiovascular Health in Midlife Women in Project Viva

Funding agency: NIH/NIA 5U54 AG062322-04

Role: Principal Investigator of SCORE Scholar Award; Total direct costs – (\$190,000)

Description: This proposal leverages extant data from over 700 women in Boston, MA (Project Viva) to examine the extent to which the neighborhood environment could contribute to menopausal symptoms and cardiovascular health outcomes in women at midlife.

2023 - 2026

Title: Developmental origins of optimal cardiovascular health across childhood and adolescence.

Funding Agency: AHA 23CDA1050962

Role: Principal Investigator; Total direct costs – (\$207,002)

Description: This proposal will leverage a highly engaged prospective pre-birth longitudinal cohort in Massachusetts (Project Viva) to address key research gaps on cardiovascular health (CVH) in children, by examining patterns of change in CVH across childhood and adolescence, and identify prenatal determinants as well as novel molecular biomarkers underlying decline or maintenance of high CVH during early life.

- 2023 - 2028 Title: Stress-Air Pollution Interactions and Adolescent Neurobehavior
 Funding Agency: NIH/NIEHS 2R01 ES013744-16A1
 Role: Co-Investigator (PI: Robert O. Wright)
 Description: The overall goal of this proposal is to assess the role of perinatal environment, negative affect, and inhibitory control on obesity phenotypes in children aged 13-16 years, by capitalizing on data from PROGRESS, a prospective child health cohort that has collected longitudinal exposure, covariate, and phenotype data from pregnancy.
- 2023 - 2030 Title: Neighborhoods and health across the life course: Early life inequities in food insecurity, diet quality, and chemical exposures.
 Funding Agency: NIH/OD 1UG3 OD035533-01
 Role: Co-Investigator (MPIs: Emily Oken, Tamara James-Todd, Michelle Hacker)
 Description: The goal of this project is to initiate a new pregnancy and child cohort that will participate in the nationwide Environmental influences on Child Health Outcomes (ECHO) program. We will conduct solution-oriented science to better understand how food insecurity and related neighborhood and individual characteristics contribute to inequities in pregnancy conditions that lead to later obesity and CVD risk.
- 2024 - 2025 Title: Early life exposure to nephrotoxic mixtures and kidney function in childhood and adolescence
 Funding agency: NIH/NIEHS P30ES000002
 Role: Principal Investigator; Total direct costs requested – (\$18,072)
 Description: The overall goals of the proposed pilot project are to assess associations of pre- and postnatal exposure to nephrotoxicant mixtures with kidney function in mid-childhood and change in kidney function from mid-childhood to late adolescence.
- 2024 - 2026 Title: Ambient Temperature During Pregnancy and the Cardiovascular Health of Pregnant Women and Their Children
 Funding agency: NIH/OD UG3
 Role: Site Principal Investigator (PI: Mingyu Zhang)
 Description: The goal of this study is to understand how ambient temperature during pregnancy affects the cardiovascular health of pregnant women and their children, and identify the critical windows of susceptibility.

Projects Submitted for Funding

- Pending Council review Title: Lifecourse stressors and trajectories of neuropsychiatric health across the menopausal transition – Reproductive Outcomes of Stress and Aging
 Funding agency: NIH/NIA 2U54AG062322-06
 Role: Co-Investigator (MPIs: Emily Oken, Jorge Chavarro)
 Description: The overall goal of this renewal application is to test the overall hypothesis that across the reproductive lifespan women with greater exposure to ambient and artificial nocturnal light, lower exposure to nature, and higher social stress throughout their reproductive lifespan will have poorer neuropsychiatric health during the menopausal transition.
 Impact Score=25
- In review Title: Neighborhood and individual environmental risk factors in early life and -omics biomarkers for kidney function trajectories across childhood and adulthood

Funding Agency: NIH/NIEHS 1R01ES038119-01

Role: Principal Investigator; Total direct costs requested – (\$2,428,850)

Description: This innovative proposal capitalizes on extant data from an ongoing, highly engaged US pre-birth cohort (Project Viva) to examine the extent to which early-life exposure to disadvantaged neighborhood contexts and nephrotoxicants leads to later life kidney dysfunction and higher blood pressure and identify novel urinary protein biomarkers underlying altered kidney function and blood pressure trajectory from childhood to early adulthood.

In review

Title: Environmental determinants of cardiovascular health trajectories across childhood and adolescence

Funding agency: NIH/NHLBI 1R01HL183379-01

Role: Principal Investigator; Total direct costs requested – (\$1,804,106)

Description: This proposal leverages on extant data from an ongoing, highly engaged pre-birth cohort in eastern Massachusetts (Project Viva) to examine the extent to which environmental exposures in early life influence cardiovascular health across development, and identify novel metabolomic signatures underlying decline or maintenance of cardiovascular health trajectories from childhood to adolescence.

In review

Title: Non-medical and Medical factors and the Role of Patient Navigation in Influencing Maternal Health

Funding agency: NIH/NINR 1R01NR022066-01

Role: Principal Investigator; Total direct costs requested – (\$2,478,749)

Description: This proposal leverages on a large health information exchange in Austin, Texas to investigate the extent to which health-related social needs (i.e., food security, housing stability, transportation and utility needs, and interpersonal safety), individually and in combination, influence pregnancy and postpartum care processes and health outcomes at the intersection of multiple sociodemographic factors, and evaluate whether a community health worker-led, patient navigation intervention that addresses health-related social needs will improve care processes and health outcomes in pregnancy and postpartum.

In review

Title: Disordered eating behaviors in adolescence and young-adulthood: sex- and BMI-specific associations with early-life factors and cardiometabolic and experiential health

Funding agency: NIH/NICHD R01

Role: Co-Investigator (PI: Karen Switkowski)

Description: The overall goals of the proposed project are to 1) explore early-life factors that increase susceptibility or resilience to self-reported disordered eating behaviors including dieting, fasting, restricting food intake, food elimination, binge eating and purging and scores on the Eating Disorders Examination Questionnaire across sex, gender and BMI categories, and 2) examine relationships of disordered eating, annually self-reported weight management attempts and weight cycling with cardiometabolic and experiential health in adolescence and adulthood.

In review

Title: Multiomic investigation of mechanisms by which socially determined stressors impact maternal-fetal allostasis and subsequent risk of pediatric asthma

Funding agency: NIH/NHLBI R01

Role: Site Principal Investigator (PI: Su H. Chu)

Description: The objective of this proposal is to investigate molecular mechanisms by which socially determined stressors and asthma in mothers during pregnancy might affect risk of offspring asthma.

In review

Title: The Impact of Place on Mental Health Among Children and Adolescents: Climate-Related Exposures, the Built Environment, and Social Determinants of Health

Funding agency: NIH/NIEHS R01

Role: Site Principal Investigator (MPIs: Antonella Zanobetti, Patrick Ryan)

Description: This proposal aims to examine how climate-related environmental exposures combine synergistically with neighborhood, social, and other individual factors to drive mental health outcomes among children and adolescents.

Report of Local Teaching and Training

Teaching of Students in Courses:

2019 - Present	Course: Essentials of the Profession I – Clinical Epidemiology and Population Health Student audience: 1st-year medical and dental students	Harvard Medical School Role: Lecturer, small group leader
----------------	--	--

2019 - Present	Course: Obesity Epidemiology Student audience: Masters of Public Health and Doctor of Philosophy students	Harvard TH Chan School of Public Health Role: Lecturer
----------------	--	---

2020 - Present	Course: Essentials of the Profession II – Clinical Epidemiology and Population Health Student audience: 3rd-, 4th-, and 5th-year medical students	Harvard Medical School Role: Small group leader
----------------	--	--

Other Mentored Trainees and Faculty:

2018 - 2020	Name: Jiajin Hu Current position: Research Fellow (China Medical University) Mentoring role: Co-mentor on student's PhD project Accomplishments: Four peer-reviewed publications.
-------------	--

2019 - Present	Name: Carmen Monthe-Dreze Current position: Instructor of Medicine (Brigham and Women's Hospital) Mentoring role: Secondary research mentor and advisor on methods for longitudinal data analysis for her diversity supplement project. Co-mentor on K23 award under review. Accomplishments: Two peer-reviewed publications.
----------------	--

2019 - Present	Name: Allison J. Wu Current position: Assistant Professor (Boston Children's Hospital) Mentoring role: Secondary research mentor and advisor on methods for longitudinal data analysis during her fellowship in pediatric gastroenterology and nutrition. Co-mentor on K23 award.
----------------	---

Accomplishments: Two presentations at the North American Society For Pediatric Gastroenterology, Hepatology & Nutrition and Pediatric Academies Society conferences, four peer-reviewed publications.

- 2020 - 2022
Name: Caitriona McGovern
Current position: Pediatric Gastroenterologist (Tufts Medical Center)
Mentoring role: Primary research mentor for her fellowship training in pediatric gastroenterology and nutrition at Boston Children's Hospital.
Accomplishments: Two presentations at the North American Society For Pediatric Gastroenterology, Hepatology & Nutrition conference, one peer-reviewed publication.
- 2021 - 2022
Name: Kristen Shanahan
Current position: Assistant Professor (Massachusetts General Hospital)
Mentoring role: Primary research mentor for her research work during her fellowship in Pediatric Health Services Research, using data from the Project Viva cohort.
Accomplishments: One presentation at Pediatric Academic Societies meeting, one peer-reviewed publication.
- 2022 - 2024
Name: Amy Nichols
Current position: Assistant Professor (University of California, Davis)
Mentoring role: Secondary research mentor and advisor on statistical methods.
Accomplishments: One presentation at American Heart Association EPI Lifestyle conference, one publication under review.
- 2022 - 2024
Name: Yi Ying Ong
Current position: Research Assistant Professor (National University of Singapore)
Mentoring role: Co-supervisor for her postdoctoral research project.
Accomplishments: Three peer-reviewed publications, two publications under review.
- 2023 - Present
Name: Lang Liang
Current position: Dental student (Harvard School of Dental Medicine)
Mentoring role: Primary mentor and advisor for his research project and statistical methods.
Accomplishments: Three peer-reviewed publications.
- 2023 - Present
Name: Zhi Lin
Current position: Medical student (Harvard Medical School)
Mentoring role: Primary mentor.
Accomplishments: Two manuscripts in review.
- 2023 - Present
Name: Andrew Nguyen
Current position: Medical student (Harvard Medical School)
Mentoring role: Secondary mentor and advisor for his research project and statistical methods.
Accomplishments: One peer-reviewed publication.
- 2024 - Present
Name: Hilary Dolstad
Current position: General Internal Medicine Fellow (Harvard Medical School)
Mentoring role: Primary mentor.

2024 - Present Name: Sabrina Karim
 Current position: Clinical Fellow (Boston Children’s Hospital)
 Mentoring role: Primary mentor.

2024 - Present Name: Li Yi
 Current position: Post-doctoral Fellow (Harvard Medical School)
 Mentoring role: Primary mentor.
 Accomplishments: Two peer-reviewed publications.

Formal Teaching of Peers (e.g., CME and other continuing education courses):

No presentations below were sponsored by 3rd parties/outside entities.

Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

2018	Title: Trajectory modelling approaches Course: CoRAL Methods Working Group	3 hours Boston, MA, USA
2019	Title: Causal inference approaches Course: CoRAL Methods Working Group	1 hour Boston, MA, USA
2022	Title: Multiple Imputation Methods Course: CoRAL Research-in-Progress Group	1 hour Boston, MA, USA
2024	Title: Multiple Imputation Methods Course: CoRAL Research-in-Progress Group	1 hour Boston, MA, USA
2024	Title: Trajectory modelling approaches Course: Department of Population Medicine LEAD Seminar	1 hour Boston, MA, USA
2025	Title: Introduction to Causal Inference Course: International DOHaD Society Short Courses	6 hours Boston, MA, USA

Report of Regional, National and International Invited Teaching and Presentations

No presentations below were sponsored by 3rd parties/outside entities

Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

Regional

05/2023 Title: New Developments in the Developmental Origins of Obesity – Insights from Project Viva.
 Type of presentation: Invited seminar (via Zoom)
 Location: Beth Israel Deaconess Medical Center, Department of Neonatology

06/2023 Title: Importance of Nutrition Across Lifecourse: deficiencies, consequences, prevention of disease.
 Type of presentation: Invited lecture (via Zoom)

Location: Harvard TH Chan School of Public Health, Department of Nutrition

11/2023 Title: Neighborhood Opportunity and Child Health.
Type of presentation: Invited seminar
Location: Point32Health symposium, Boston MA

10/2024 Title: Neighborhood Vulnerability and Women’s Health – Insights from Project Viva.
Type of presentation: Invited seminar
Location: 7th Annual Connors Center Research Symposium, Brigham and Women’s Hospital, Boston MA

03/2025 Title: Neighborhoods and Health in Women and Children – Recent Insights from Project Viva and ECHO.
Type of presentation: Invited seminar
Location: Massachusetts General Hospital.

National

06/2020 Title: Prospective Associations of Neighborhood Child Opportunity Index with Adolescent Cardiometabolic Risk.
Type of presentation: Invited oral presentation
Location: Society for Epidemiologic Research Annual Meeting, Boston, MA

06/2021 Title: Neighborhood Child Opportunity Index and Adolescent Cardiometabolic Risk
Type of presentation: Invited seminar (via Zoom)
Location: NIH ECHO Obesity Working Group Meeting

09/2021 Title: Association of early life growth with offspring pubertal development: a nationwide US multi-cohort study
Type of presentation: Invited oral presentation
Location: US Developmental Origins of Health and Disease Congress, Raleigh, NC

10/2021 Title: Association of early life growth with offspring pubertal development: A nationwide US multi-cohort study
Type of presentation: Invited seminar (via Zoom)
Location: NIH ECHO Virtual Fall Meeting.

11/2021 Title: New Developments in the Developmental Origins of Obesity and Obesity-related Conditions.
Type of presentation: Invited seminar (via Zoom)
Location: Lifecourse Epidemiology of Adiposity & Diabetes (LEAD) Center, Colorado School of Public Health.

12/2021 Title: Neighborhood Opportunities and Disparities in Child Health Outcomes: A Nationwide US Multi-Cohort Study.
Type of presentation: Invited seminar (via Zoom)
Location: NIH ECHO Stakeholder Working Group Meeting.

04/2022 Title: Neighborhood Opportunities and Disparities in Child Health Outcomes: A Nationwide US Multi-Cohort Study.
Type of presentation: Invited flash talk (via Zoom)
Location: NIH ECHO-wide cohort Spring Virtual meeting.

- 09/2022 Title: Neighborhood Opportunity and Vulnerability, and Trajectories of Child Body Mass Index and Obesity in the ECHO Cohorts.
Type of presentation: Invited flash talk (via Zoom)
Location: NIH ECHO Obesity Working Group Meeting.
- 10/2022 Title: Neighborhood Opportunity and Vulnerability, and Trajectories of Child Body Mass Index and Obesity: A Nationwide US Multicohort Study
Type of presentation: Invited oral presentation
Location: US Developmental Origins of Health and Disease Congress, Minneapolis, MN
- 03/2023 Title: Associations of Neighborhood Opportunity and Vulnerability with Trajectories of Child Body Mass Index and Obesity.
Type of presentation: Invited seminar (via Zoom)
Location: NIH ECHO Program Meeting.
- 04/2023 Title: Associations of Neighborhood Opportunity and Vulnerability with Incident Asthma among US Children in ECHO Cohorts.
Type of presentation: Invited seminar (via Zoom)
Location: NIH ECHO Spring Meeting.
- 06/2023 Title: Neighborhood Opportunities and Disparities in Child Health Outcomes
Type of presentation: Invited seminar (via Zoom)
Location: NIH ECHO Discovery Series.
- 06/2023 Title: Associations of Neighborhood Opportunity and Vulnerability with Trajectories of Child Body Mass Index and Obesity.
Type of presentation: Invited seminar (via Zoom)
Location: NIH Obesity Research Task Force Meeting.
- 06/2023 Title: Associations of Neighborhood Opportunity and Vulnerability with Incident Asthma Among U.S. Children in the ECHO cohorts
Type of presentation: Invited oral presentation
Location: Society for Epidemiologic Research Annual Meeting, Portland, OR
- 06/2023 Title: Associations of Neighborhood Opportunity and Vulnerability with Incident Asthma Among U.S. Children in the ECHO cohorts
Type of presentation: Invited oral presentation
Location: Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Portland, OR
- 11/2023 Title: Demystifying the Development of the SPER Program
Type of presentation: Invited seminar (via Zoom)
Location: Society for Pediatric and Perinatal Epidemiologic Research
Type of presentation: Invited seminar (via Zoom), Location: Society for Pediatric and Perinatal Epidemiologic Research
- 11/2023 Title: Neighborhood Opportunities and Disparities in Child Health Outcomes
Type of presentation: Invited seminar (via Zoom)
Location: Division of Nutritional Sciences, Cornell University
- 03/2024 Title: Trajectory of Cardiovascular Health Across Childhood and Adolescence in Project Viva
Type of presentation: Invited oral presentation
Location: American Heart Association EPI | Lifestyle Scientific Sessions, Chicago, IL

- 05/2024 Title: Associations of Neighborhood Vulnerability with Menopause Symptoms and Timing of Onset at Midlife in Project Viva
Type of presentation: Invited presentation (via Zoom)
Location: NIH Specialized Centers of Research Excellence (SCORE) on Sex Differences PI meeting
- 06/2024 Title: Food Insecurity in Early Life and Obesity Risk Across Childhood and Adolescence in the Environmental influences on Child Health Outcomes (ECHO) Program
Type of presentation: Invited oral presentation
Location: Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Austin, TX
- 06/2024 Title: Associations of Neighborhood Vulnerability with Menopause Symptoms and Timing of Onset at Midlife in Project Viva
Type of presentation: Invited oral presentation
Location: Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Austin, TX
- 10/2024 Title: How do we get more impact out of ECHO publications? – Neighborhood Opportunity and Vulnerability and Incident Asthma.
Type of presentation: Invited seminar
Location: NIH ECHO Fall Meeting.
- 04/2025 Title: New Developments in the Developmental Origins of Disease.
Type of presentation: Invited seminar
Location: NIH DOHaD Interest Group meeting.
- 09/2025 Title: Associations of Neighborhood Factors with Child Health Outcomes.
Type of presentation: Invited seminar
Location: NIH ECHO Symposium.

International

- 09/2022 Title: New Developments in the Developmental Origins of Obesity.
Type of presentation: Invited keynote seminar (via Zoom)
Location: 2nd International Conference on the Comprehensive Life Course Prevention and Treatment of Obesity and Related Chronic Diseases, China
- 09/2023 Title: Neighborhood Opportunities and Disparities in Child Health Outcomes.
Type of presentation: Invited keynote seminar (via Zoom)
Location: 3rd International Conference on the Comprehensive Life Course Prevention and Treatment of Obesity and Related Chronic Diseases, China
- 02/2024 Title: Neighborhood Opportunities and Disparities in Child Health Outcomes.
Type of presentation: Invited seminar (via Zoom)
Location: International Society for the Developmental Origins of Health and Disease
- 03/2024 Title: Early life predictors and health consequences of body mass index trajectory milestones - application to the PROGRESS cohort.
Type of presentation: Invited seminar
Location: PROGRESS Team Meeting, Cuernavaca, México

Report of Clinical Activities and Innovations

Clinical Innovations:

2017 birth weight for gestational age reference (2017 – Present) With my mentor Emily Oken, we generated an updated fetal growth reference based on 2017 births, published in 2019 (Original Research Publication #70). The reference includes an online calculator (available at: https://izzuddin-aris.shinyapps.io/BW-for-GA_z-score_webapp/) to generate birth weight for gestational age percentiles and z scores for individual births or datasets. As of April 1st 2024, the paper has been cited 113 times with a relative citation ratio of 7.59 (96th percentile) on the NIH icite index.

Report of Scholarship

* denotes equal authorship contribution

** denotes mentored trainee.

Peer-Reviewed Scholarship in print or other media:

Research Investigations

1. **Aris IM**, Soh SE, Tint MT, Liang S, Chinnadurai A, Saw SM, Kwek K, Godfrey KM, Gluckman PD, Chong YS, Yap FK, Lee YS. Body fat in Singaporean infants: development of body fat prediction equations in Asian newborns. *Eur J Clin Nutr.* 2013 Sep;67(9):922-7.
2. **Aris IM**, Gandhi M, Cheung YB, Soh SE, Tint MT, Gluckman PD, Lee YS, Yap FK, Chong YS. A new population-based reference for gestational age-specific size-at- birth of Singapore infants. *Ann Acad Med Singap.* 2014 Sep;43(9):439-47.
3. **Aris IM**, Soh SE, Tint MT, Liang S, Chinnadurai A, Saw SM, Rajadurai VS, Kwek K, Meaney MJ, Godfrey KM, Gluckman PD, Yap FK, Chong YS, Lee YS. Effect of maternal glycemia on neonatal adiposity in a multiethnic Asian birth cohort. *J Clin Endocrinol Metab.* 2014 Jan;99(1):240-7.
4. Sukarieh R, Joseph R, Leow SC, Li Y, Loffler M, **Aris IM**, Tan JH, Teh AL, Chen L, Holbrook JD, Ng KL, Lee YS, Chong YS, Summers SA, Gluckman PD, Stunkel W. Molecular pathways reflecting poor intrauterine growth are found in Wharton's jelly-derived mesenchymal stem cells. *Hum Reprod.* 2014 Oct 10;29(10):2287-301.
5. Chen LW, Lim AL, Colega M, Tint MT, **Aris IM**, Tan CS, Chong YS, Gluckman PD, Godfrey KM, Kwek K, Saw SM, Yap F, Lee YS, Chong MF, van Dam RM. Maternal folate status, but not that of vitamins B-12 or B-6, is associated with gestational age and preterm birth risk in a multiethnic Asian population. *J Nutr.* 2015 Jan;145(1):113-20.
6. Chong MF, Chia AR, Colega M, Tint MT, **Aris IM**, Chong YS, Gluckman P, Godfrey KM, Kwek K, Saw SM, Yap F, van Dam RM, Lee YS. Maternal Protein Intake during Pregnancy Is Not Associated with Offspring Birth Weight in a Multiethnic Asian Population. *J Nutr.* 2015 Jun;145(6):1303-10.
7. Li LJ, **Aris IM**, Su LL, Tint MT, Cheung CY, Ikram MK, Gluckman P, Godfrey KM, Tan KH, Yeo G, Yap F, Kwek K, Saw SM, Chong YS, Wong TY, Lee YS. Associations of maternal retinal vasculature with subsequent fetal growth and birth size. *PloS one.* 2015;10(4):e0118250.
8. Lin X, **Aris IM**, Tint MT, Soh SE, Godfrey KM, Yeo GS, Kwek K, Chan JK, Gluckman PD, Chong YS, Yap F, Holbrook JD, Lee YS. Ethnic Differences in Effects of Maternal Pre-

- Pregnancy and Pregnancy Adiposity on Offspring Size and Adiposity. *J Clin Endocrinol Metab.* 2015 Oct;100(10):3641-50.
9. Quah PL, Chan YH, **Aris IM**, Pang WW, Toh JY, Tint MT, Broekman BF, Saw SM, Kwek K, Godfrey KM, Gluckman PD, Chong YS, Meaney MJ, Yap FK, van Dam RM, Lee YS, Chong MF. Prospective associations of appetitive traits at 3 and 12 months of age with body mass index and weight gain in the first 2 years of life. *BMC Pediatr.* 2015 Oct 12;15:153.
 10. Zhou Y, **Aris IM**, Tan SS, Cai S, Tint MT, Krishnaswamy G, Meaney MJ, Godfrey KM, Kwek K, Gluckman PD, Chong YS, Yap F, Lek N, Gooley JJ, Lee YS. Sleep duration and growth outcomes across the first two years of life in the GUSTO study. *Sleep Med.* 2015 Oct;16(10):1281-6.
 11. **Aris IM**, Soh SE, Tint MT, Saw SM, Rajadurai VS, Godfrey KM, Gluckman PD, Yap F, Chong YS, Lee YS. Associations of gestational glycemia and prepregnancy adiposity with offspring growth and adiposity in an Asian population. *Am J Clin Nutr.* 2015 Nov;102(5):1104-12.
 12. Lim WY, Lee YS, Yap FK, **Aris IM**, Lek N, Meaney M, Gluckman PD, Godfrey KM, Kwek K, Chong YS, Saw SM, Pan A. Maternal Blood Pressure During Pregnancy and Early Childhood Blood Pressures in the Offspring: The GUSTO Birth Cohort Study. *Medicine (Baltimore).* 2015 Nov;94(45):e1981.
 13. Tint MT, Ward LC, Soh SE, **Aris IM**, Chinnadurai A, Saw SM, Gluckman PD, Godfrey KM, Chong YS, Kramer MS, Yap F, Lingwood B, Lee YS. Estimation of fat-free mass in Asian neonates using bioelectrical impedance analysis. *Br J Nutr.* 2016 Mar 28;115(6):1033-42.
 14. Pang WW, **Aris IM**, Fok D, Soh SE, Chua MC, Lim SB, Saw SM, Kwek K, Gluckman PD, Godfrey KM, van Dam RM, Kramer MS, Chong YS. Determinants of Breastfeeding Practices and Success in a Multi-Ethnic Asian Population. *Birth.* 2016 Mar;43(1):68-77.
 15. Tint MT, Fortier MV, Godfrey KM, Shuter B, Kapur J, Rajadurai VS, Agarwal P, Chinnadurai A, Niduvaje K, Chan YH, **Aris IM**, Soh SE, Yap F, Saw SM, Kramer MS, Gluckman PD, Chong YS, Lee YS. Abdominal adipose tissue compartments vary with ethnicity in Asian neonates: Growing Up in Singapore Towards Healthy Outcomes birth cohort study. *Am J Clin Nutr.* 2016 May;103(5):1311-7.
 16. Lim GH, Toh JY, **Aris IM**, Chia AR, Han WM, Saw SM, Godfrey KM, Gluckman PD, Chong YS, Yap F, Lee YS, Kramer MS, Chong MF. Dietary Pattern Trajectories from 6 to 12 Months of Age in a Multi-Ethnic Asian Cohort. *Nutrients.* 2016 Jun 15;8(6).
 17. van Lee L, Tint MT, **Aris IM**, Quah PL, Fortier MV, Lee YS, Yap FK, Saw SM, Godfrey KM, Gluckman PD, Chong YS, Kramer MS, Chong MF. Prospective associations of maternal betaine status with offspring weight and body composition at birth: the Growing Up in Singapore Towards healthy Outcomes (GUSTO) cohort study. *Am J Clin Nutr.* 2016 Nov;104(5):1327-33.
 18. Ong YL, Quah PL, Tint MT, **Aris IM**, Chen LW, van Dam RM, Heppe D, Saw SM, Godfrey KM, Gluckman PD, Chong YS, Yap F, Lee YS, Foong-Fong Chong M. The association of maternal vitamin D status with infant birth outcomes, postnatal growth and adiposity in the first 2 years of life in a multi- ethnic Asian population: the Growing Up in Singapore Towards healthy Outcomes (GUSTO) cohort study. *Br J Nutr.* 2016 Aug;116(4):621-31.
 19. Chen LW, Tint MT, Fortier MV, **Aris IM**, Bernard JY, Colega M, Gluckman PD, Saw SM, Chong YS, Yap F, Godfrey KM, Kramer MS, van Dam RM, Chong MF, Lee YS. Maternal Macronutrient Intake during Pregnancy Is Associated with Neonatal Abdominal Adiposity: The

- Growing Up in Singapore Towards healthy Outcomes (GUSTO) Study. *J Nutr.* 2016 Aug;146(8):1571-9.
20. Fok D, **Aris IM**, Ho J, Lim SB, Chua MC, Pang WW, Saw SM, Kwek K, Godfrey KM, Kramer MS, Chong YS. A Comparison of Practices During the Confinement Period among Chinese, Malay, and Indian Mothers in Singapore. *Birth.* 2016 Sep;43(3):247-54.
 21. Chong SC, Broekman BF, Qiu A, **Aris IM**, Chan YH, Rifkin-Graboi A, Law E, Chee CY, Chong YS, Kwek KY, Saw SM, Gluckman PD, Meaney MJ, Chen H. ANXIETY AND DEPRESSION DURING PREGNANCY AND TEMPERAMENT IN EARLY INFANCY: FINDINGS FROM A MULTI-ETHNIC, ASIAN, PROSPECTIVE BIRTH COHORT STUDY. *Infant Ment Health J.* 2016 Sep;37(5):584-98.
 22. Chia AR, de Seymour JV, Colega M, Chen LW, Chan YH, **Aris IM**, Tint MT, Quah PL, Godfrey KM, Yap F, Saw SM, Baker PN, Chong YS, van Dam RM, Lee YS, Chong MF. A vegetable, fruit, and white rice dietary pattern during pregnancy is associated with a lower risk of preterm birth and larger birth size in a multiethnic Asian cohort: the Growing Up in Singapore Towards healthy Outcomes (GUSTO) cohort study. *Am J Clin Nutr.* 2016 Nov;104(5):1416-23.
 23. **Aris IM**, Tint MT, Teh AL, Holbrook JD, Quah PL, Chong MF, Lin X, Soh SE, Saw SM, Kwek K, Godfrey KM, Gluckman PD, Chong YS, Lek N, Yap F, Lee YS. MC3R gene polymorphisms are associated with early childhood adiposity gain and infant appetite in an Asian population. *Pediatr Obes.* 2016 Dec;11(6):450-8.
 24. Chen LW, **Aris IM**, Bernard JY, Tint MT, Chia A, Colega M, Gluckman PD, Shek LP, Saw SM, Chong YS, Yap F, Godfrey KM, van Dam RM, Chong MF, Lee YS. Associations of Maternal Dietary Patterns during Pregnancy with Offspring Adiposity from Birth Until 54 Months of Age. *Nutrients.* 2016 Dec 22;9(1).
 25. Kramer MS, Zhang X, **Aris IM**, Dahhou M, Naimi A, Yang S, Martin RM, Oken E, Platt RW. Methodological challenges in studying the causal determinants of child growth. *Int J Epidemiol.* 2016 Dec 1;45(6):2030-7.
 26. **Aris IM**, Soh SE, Tint MT, Saw SM, Rajadurai VS, Godfrey KM, Gluckman PD, Yap F, Chong YS, Lee YS. Associations of infant milk feed type on early postnatal growth of offspring exposed and unexposed to gestational diabetes in utero. *Eur J Nutr.* 2017 Feb;56(1):55-64.
 27. Chen LW, **Aris IM**, Bernard JY, Tint MT, Colega M, Gluckman PD, Tan KH, Shek LP, Chong YS, Yap F, Godfrey KM, van Dam RM, Chong MF, Lee YS. Associations of maternal macronutrient intake during pregnancy with infant BMI peak characteristics and childhood BMI. *Am J Clin Nutr.* 2017 Mar;105(3):705-13.
 28. Lin X, Lim IY, Wu Y, Teh AL, Chen L, **Aris IM**, Soh SE, Tint MT, MacIsaac JL, Morin AM, Yap F, Tan KH, Saw SM, Kobor MS, Meaney MJ, Godfrey KM, Chong YS, Holbrook JD, Lee YS, Gluckman PD, Karnani N. Developmental pathways to adiposity begin before birth and are influenced by genotype, prenatal environment and epigenome. *BMC Med.* 2017 Mar 7;15(1):50.
 29. **Aris IM**, Bernard JY, Chen LW, Tint MT, Pang WW, Lim WY, Soh SE, Saw SM, Godfrey KM, Gluckman PD, Chong YS, Yap F, Kramer MS, Lee YS. Infant body mass index peak and early childhood cardio-metabolic risk markers in a multi-ethnic Asian birth cohort. *Int J Epidemiol.* 2017 Apr 1;46(2):513-25.
 30. Bernard JY, Tint MT, **Aris IM**, Chen LW, Quah PL, Tan KH, Yeo GS, Fortier MV, Yap F, Shek L, Chong YS, Gluckman PD, Godfrey KM, Calder PC, Chong MFF, Kramer MS, Botton

- J, Lee YS. Maternal plasma phosphatidylcholine polyunsaturated fatty acids during pregnancy and offspring growth and adiposity. *Prostaglandins Leukot Essent Fatty Acids*. 2017 Jun;121:21-9.
31. Loo EX, Goh A, **Aris IM**, Teoh OH, Shek LP, Lee BW, Chan YH, Tint MT, Soh SE, Saw SM, Gluckman P, Godfrey KM, Chong YS, Yap F, Kramer MS, Van Bever H, Lee YS. Effects of infant weight gain on subsequent allergic outcomes in the first 3 years of life. *BMC Pediatr*. 2017 Jun 2;17(1):134.
 32. Loy SL, Wee PH, Colega MT, Cheung YB, **Aris IM**, Chan JKY, Godfrey KM, Gluckman PD, Tan KH, Shek LP, Chong YS, Natarajan P, Muller-Riemenschneider F, Lek N, Rajadurai VS, Tint MT, Lee YS, Chong MF, Yap F. Maternal Night-Fasting Interval during Pregnancy Is Directly Associated with Neonatal Head Circumference and Adiposity in Girls but Not Boys. *J Nutr*. 2017 Jul;147(7):1384-91.
 33. **Aris IM**, Bernard JY, Chen LW, Tint MT, Lim WY, Soh SE, Saw SM, Shek LP, Godfrey KM, Gluckman PD, Chong YS, Yap F, Kramer MS, Lee YS. Postnatal height and adiposity gain, childhood blood pressure and prehypertension risk in an Asian birth cohort. *Int J Obes (Lond)*. 2017 Jul;41(7):1011-7.
 34. **Aris IM**, Chen LW, Tint MT, Pang WW, Soh SE, Saw SM, Shek LP, Tan KH, Gluckman PD, Chong YS, Yap F, Godfrey KM, Kramer MS, Lee YS. Body mass index trajectories in the first two years and subsequent childhood cardio-metabolic outcomes: a prospective multi-ethnic Asian cohort study. *Sci Rep*. 2017 Aug 21;7(1):8424.
 35. **Aris IM**, Logan S, Lim C, Choolani M, Biswas A, Bhattacharya S. Preterm prelabour rupture of membranes: a retrospective cohort study of association with adverse outcome in subsequent pregnancy. *BJOG*. 2017 Oct;124(11):1698-707.
 36. Li LJ, Tan KH, **Aris IM**, Chong YS, Saw SM, Gluckman P, Wang JJ, Wong TY. Gestational retinal microvasculature and the risk of 5 year postpartum abnormal glucose metabolism. *Diabetologia*. 2017 Dec;60(12):2368-76.
 37. Chia AR, Tint MT, Han CY, Chen LW, Colega M, **Aris IM**, Chua MC, Tan KH, Yap F, Shek LP, Chong YS, Godfrey KM, Fortier MV, Lee YS, Chong MF. Adherence to a healthy eating index for pregnant women is associated with lower neonatal adiposity in a multiethnic Asian cohort: the Growing Up in Singapore Towards healthy Outcomes (GUSTO) Study. *Am J Clin Nutr*. 2018 Jan 1;107(1):71-9.
 38. **Aris IM**, Bernard JY, Chen LW, Tint MT, Pang WW, Soh SE, Saw SM, Shek LP, Godfrey KM, Gluckman PD, Chong YS, Yap F, Kramer MS, Lee YS. Modifiable risk factors in the first 1000 days for subsequent risk of childhood overweight in an Asian cohort: significance of parental overweight status. *Int J Obes (Lond)*. 2018 Jan;42(1):44-51.
 39. Chen LW, Tint MT, Fortier MV, **Aris IM**, Shek LP, Tan KH, Chan SY, Gluckman PD, Chong YS, Godfrey KM, Rajadurai VS, Yap F, Kramer MS, Lee YS. Which anthropometric measures best reflect neonatal adiposity? *Int J Obes (Lond)*. 2018 Mar;42(3):501-6.
 40. Li LJ, **Aris IM**, Su LL, Chong YS, Wong TY, Tan KH, Wang JJ. Effect of gestational diabetes and hypertensive disorders of pregnancy on postpartum cardiometabolic risk. *Endocr Connect*. 2018 Mar;7(3):433-42.
 41. Tng HY, Thu WPP, Logan S, **Aris IM**, Cauley J, Yong EL. Sleep apnea and femoral neck BMD among Singaporean mid-life women. *Arch Osteoporos*. 2018 Mar 5;13(1):19.

42. Li LJ, Rifas-Shiman SL, **Aris IM**, Young JG, Mantzoros C, Hivert MF, Oken E. Associations of maternal and cord blood adipokines with offspring adiposity in Project Viva: is there an interaction with child age? *Int J Obes (Lond)*. 2018 Apr;42(4):608-17.
43. Chen LW, Tint MT, Fortier MV, **Aris IM**, Shek LP, Tan KH, Rajadurai VS, Gluckman PD, Chong YS, Godfrey KM, Kramer MS, Henry CJ, Yap F, Lee YS. Body composition measurement in young children using quantitative magnetic resonance: a comparison with air displacement plethysmography. *Pediatr Obes*. 2018 Jun;13(6):365-73.
44. Li LJ, Tan KH, **Aris IM**, Man REK, Gan ATL, Chong YS, Saw SM, Gluckman P, Wong TY, Lamoureux E. Retinal vasculature and 5-year metabolic syndrome among women with gestational diabetes mellitus. *Metabolism*. 2018 Jun;83:216-24.
45. Bernard JY, Pan H, **Aris IM**, Moreno-Betancur M, Soh SE, Yap F, Tan KH, Shek LP, Chong YS, Gluckman PD, Calder PC, Godfrey KM, Chong MF, Kramer MS, Karnani N, Lee YS. Long-chain polyunsaturated fatty acids, gestation duration, and birth size: a Mendelian randomization study using fatty acid desaturase variants. *Am J Clin Nutr*. 2018 Jul 1;108(1):92-100.
46. Tint MT, Chong MF, **Aris IM**, Godfrey KM, Quah PL, Kapur J, Saw SM, Gluckman PD, Rajadurai VS, Yap F, Kramer MS, Chong YS, Henry CJ, Fortier MV, Lee YS. Association between maternal mid-gestation vitamin D status and neonatal abdominal adiposity. *Int J Obes (Lond)*. 2018 Jul;42(7):1296-305.
47. **Aris IM**, Rifas-Shiman SL, Li LJ, Yang S, Belfort MB, Thompson J, Hivert MF, Patel R, Martin RM, Kramer MS, Oken E. Association of Weight for Length vs Body Mass Index During the First 2 Years of Life With Cardiometabolic Risk in Early Adolescence. *JAMA Netw Open*. 2018 Sep 7;1(5):e182460.
48. **Aris IM**, Rifas-Shiman SL, Li LJ, Kleinman K, Coull BA, Gold DR, Hivert MF, Kramer MS, Oken E. Pre-, Perinatal, and Parental Predictors of Body Mass Index Trajectory Milestones. *J Pediatr*. 2018 Oct;201:69-77.
49. Loy SL, Cheung YB, Soh SE, Ng S, Tint MT, **Aris IM**, Bernard JY, Chong YS, Godfrey KM, Shek LP, Tan KH, Lee YS, Tan HH, Chern BSM, Lek N, Yap F, Chan SY, Chi C, Chan JKY. Female adiposity and time-to-pregnancy: a multiethnic prospective cohort. *Hum Reprod*. 2018 Nov 1;33(11):2141-9.
50. Chi C, Pang D, **Aris IM**, Teo WT, Li SW, Biswas A, Yong EL, Chong YS, Tan K, Kramer MS. Trends and predictors of cesarean birth in Singapore, 2005-2014: A population-based cohort study. *Birth*. 2018 Dec;45(4):399-408.
51. Dias T, Siraj SHM, **Aris IM**, Li LJ, Tan KH. Comparing Different Diagnostic Guidelines for Gestational Diabetes Mellitus in Relation to Birthweight in Sri Lankan Women. *Front Endocrinol (Lausanne)*. 2018;9:682.
52. Quah PL, Syuhada G, Fries LR, Chan MJ, Lim HX, Toh JY, Sugianto R, **Aris IM**, Lee YS, Yap F, Godfrey KM, Gluckman PD, Chong YS, Shek LP, Tan KH, Forde CG, Chong MFF. Maternal feeding practices in relation to dietary intakes and BMI in 5 year-olds in a multi-ethnic Asian population. *PloS one*. 2018;13(9):e0203045.
53. Fleisch AF, **Aris IM**, Rifas-Shiman SL, Coull BA, Luttmann-Gibson H, Koutrakis P, Schwartz JD, Kloog I, Gold DR, Oken E. Prenatal Exposure to Traffic Pollution and Childhood Body Mass Index Trajectory. *Front Endocrinol (Lausanne)*. 2018;9:771.

54. Gingras V, Rifas-Shiman SL, Derks IPM, **Aris IM**, Oken E, Hivert MF. Associations of Gestational Glucose Tolerance With Offspring Body Composition and Estimated Insulin Resistance in Early Adolescence. *Diabetes care*. 2018 Dec;41(12):e164-e6.
55. Hu J**, **Aris IM**, Oken E, Ma Y, Ding N, Gao M, Wei X, Wen D. Association of Total and Trimester-Specific Gestational Weight Gain Rate with Early Infancy Weight Status: A Prospective Birth Cohort Study in China. *Nutrients*. 2019 Jan 28;11(2):280.
56. Fok D, **Aris IM**, Ho J, Chan YH, Rauff M, Lui JK, Cregan MD, Hartmann P, Chong YS, Mattar CN. Early initiation and regular breast milk expression reduces risk of lactogenesis II delay in at-risk Singaporean mothers in a randomised trial. *Singapore Med J*. 2019 Feb;60(2):80-8.
57. Li LJ, Rifas-Shiman SL, **Aris IM**, Mantzoros C, Hivert MF, Oken E. Leptin trajectories from birth to mid-childhood and cardio-metabolic health in early adolescence. *Metabolism*. 2019 Feb;91:30-8.
58. Zhang X, Tilling K, Martin RM, Oken E, Naimi AI, **Aris IM**, Yang S, Kramer MS. Analysis of 'sensitive' periods of fetal and child growth. *Int J Epidemiol*. 2019 Feb;48(1):116-123.
59. **Aris IM**, Rifas-Shiman SL, Li LJ, Kleinman KP, Coull BA, Gold DR, Hivert MF, Kramer MS, Oken E. Patterns of body mass index milestones in early life and cardiometabolic risk in early adolescence. *Int J Epidemiol*. 2019 Feb;48(1):157-167.
60. Hu J**, Oken E, **Aris IM**, Lin PD, Ma Y, Ding N, Gao M, Wei X, Wen D. Dietary Patterns during Pregnancy Are Associated with the Risk of Gestational Diabetes Mellitus: Evidence from a Chinese Prospective Birth Cohort Study. *Nutrients*. 2019 Feb;11(2):405.
61. Sadananthan SA, Tint MT, Michael N, **Aris IM**, Loy SL, Lee KJ, Shek LP, Yap FKP, Tan KH, Godfrey KM, Leow MK, Lee YS, Kramer MS, Gluckman PD, Chong YS, Karnani N, Henry CJ, Fortier MV, Velan SS. Association Between Early Life Weight Gain and Abdominal Fat Partitioning at 4.5 Years is Sex, Ethnicity, and Age Dependent. *Obesity (Silver Spring, Md)*. 2019 Mar;27(3):470-8.
62. van Lee L, Crozier SR, **Aris IM**, Tint MT, Sadananthan SA, Michael N, Quah PL, Robinson SM, Inskip HM, Harvey NC, Barker M, Cooper C, Velan SS, Lee YS, Fortier MV, Yap F, Gluckman PD, Tan KH, Shek LP, Chong YS, Godfrey KM, Chong MFF. Prospective associations of maternal choline status with offspring body composition in the first 5 years of life in two large mother-offspring cohorts: the Southampton Women's Survey cohort and the Growing Up in Singapore Towards healthy Outcomes cohort. *Int J Epidemiol*. 2019 Apr;48(2):433-444.
63. Huang L, Lin JS, **Aris IM**, Yang G, Chen WQ, Li LJ. Circulating Saturated Fatty Acids and Incident Type 2 Diabetes: A Systematic Review and Meta-Analysis. *Nutrients*. 2019 May 1;11(5).
64. Quah PL, Fries LR, Chan MJ, Fogel A, McCrickerd K, Goh AT, **Aris IM**, Lee YS, Pang WW, Basnyat I, Wee HL, Yap F, Godfrey KM, Chong YS, Shek LPC, Tan KH, Forde CG, Chong MFF. Validation of the Children's Eating Behavior Questionnaire in 5 and 6 Year-Old Children: The GUSTO Cohort Study. *Front Psychol*. 2019;10:824.
65. Quah PL, Ng JC, Fries LR, Chan MJ, **Aris IM**, Lee YS, Yap F, Godfrey KM, Chong YS, Shek LP, Tan KH, Forde CG, Chong MFF. Longitudinal Analysis Between Maternal Feeding Practices and Body Mass Index (BMI): A Study in Asian Singaporean Preschoolers. *Front Nutr*. 2019;6:32.

66. Yee KH, Tan KH, **Aris IM**, Lamoureux EL, Chong YS, Wang JJ, Wong TY, Li LJ. History of gestational diabetes mellitus and postpartum maternal retinal microvascular structure and function. *Diabet Med.* 2019 Jun;36(6):784-6.
67. Ng S, **Aris IM**, Tint MT, Gluckman PD, Godfrey KM, Shek LP, Yap F, Tan KH, Lek N, Teoh OH, Chan YH, Chong MF, Lee YS, Chong YS, Kramer MS, Chan SY. High maternal circulating cotinine during pregnancy is associated with persistently shorter stature from birth to five years in an Asian cohort. *Nicotine Tob Res.* 2019 Jul;21(8):1103-1112.
68. Padmapriya N, **Aris IM**, Tint MT, Loy SL, Cai S, Tan KH, Shek LP, Chong YS, Godfrey KM, Gluckman PD, Lee YS, Saw SM, Yap F, Kramer MS, Bernard JY, Muller-Riemenschneider F. Sex-specific longitudinal associations of screen viewing time in children at 2-3 years with adiposity at 3-5 years. *Int J Obes (Lond).* 2019 Jul;43(7):1334-1343.
69. Bernard JY, Ng S, Natarajan P, Loy SL, **Aris IM**, Tint MT, Chong YS, Shek L, Chan J, Godfrey KM, Khoo CM, Leow MK, Muller-Riemenschneider F, Chan SY. Associations of physical activity levels and screen time with oral glucose tolerance test profiles in Singaporean women of reproductive age actively trying to conceive: the S-PRESTO study. *Diabet Med.* 2019 Jul;36(7):888-897.
70. **Aris IM**, Kleinman KP, Belfort MB, Kaimal A, Oken E. A 2017 United States reference for singleton birth weight percentiles using obstetric estimates of gestational age. *Pediatrics* 2019 Jul;144(1): e20190076.
71. **Aris IM**, Rifas-Shiman SL, Zhang X, Yang S, Switkowski K, Fleisch AF, Hivert MF, Martin RM, Kramer MS, Oken E. Body Mass Index and its Associations with Linear Growth and Pubertal Development. *Obesity (Silver Spring, Md).* 2019 Oct;27(10):1661-1670.
72. Li LJ, **Aris IM**, Razali NS, Zanar NA, Win NM, Han WM, Tan KH. A Promising Food-Coaching Intervention Program to Obtain Optimal Gestational Weight Gain in Pregnant Overweight and Obese Women: A Pilot Randomized Control Trial of A Smartphone App. *JMIR Form Res.* 2019;3(4):e13013
73. Yu Q, **Aris IM**, Tan KH, Li LJ. Application and Utility of Continuous Glucose Monitoring in Pregnancy: A Systematic Review. *Front Endocrinol (Lausanne)* 2019;10:697
74. Fries L, Chan MJ, Quah PL, Toh JY, Fogel A, Goh AT, **Aris IM**, Broekman B, Cai S, Tint MT, Chong YS, Shek L, Lee YS, Yap F, Tan KH, Gluckman PD, Godfrey KM, Zolezzi IS, Forde C. Maternal feeding practices and children's food intake during an ad libitum buffet meal: Results from the GUSTO cohort. *Appetite.* 2019 Nov;142:104371.
75. **Aris IM**, Rifas-Shiman SL, Li LJ, Belfort MB, Hivert MF, Oken E. Early life predictors of systolic blood pressure trajectories from infancy to adolescence: findings from Project Viva. *Am J Epidemiol.* 2019 Nov;188(11):1923-1931.
76. Lim EJ, **Aris IM**, Choo J, Wong TY, Li LJ. Association between Coronary Artery Measurements and Retinal Microvasculature in Children with New Onset of Kawasaki Disease. *Sci Rep.* 2019; 9:16714
77. Sim R, **Aris IM**, Chong YS, Li LJ. Association between antenatal blood pressure and 5-year postpartum retinal arteriolar structural and functional changes. *BMJ Open Ophthalmol.* 2019;4:e000355.
78. Quah PL, Kleijweg J, Chan YY, Toh JY, Lim HX, Sugianto R, **Aris IM**, Yuan WL, Tint MT, Bernard JY, Natarajan P, Mueller-Riemenschneider F, Godfrey KM, Gluckman PD, Chong YS, Shek LPC, Tan KH, Eriksson JG, Yap F, Lee YS, Chong MFF. Associations of sugar sweetened beverage intake at ages 18 months and 5 years with adiposity outcomes at age 6

- years: The Singapore GUSTO mother-offspring cohort. *Br J Nutr.* 2019 Dec;122(11):1303-1312.
79. **Aris IM**, Rifas-Shiman SL, Li LJ, Fleisch AF, Hivert MF, Kramer MS, Oken E. Parental obesity and offspring pubertal development: findings from Project Viva. *J Pediatr.* 2019 Dec;215:123-131.
 80. Gingras V, **Aris IM**, Rifas-Shiman SL, Switkowski KM, Oken E, Hivert MF. Timing of complementary feeding introduction and adiposity throughout childhood and adolescence. *Pediatrics.* 2019 Dec;144(6): e20191320
 81. Li LJ, Shub A, Zhang J, **Aris IM**, Tan KH. Exploring Abnormal Glucose Metabolism in Pregnancy among Australia Chinese Migrants. *BMJ Open Diabetes Res Care.* 2020 Feb;8(1):e000903.
 82. Huang L, **Aris IM**, Teo LLY, Wong TY, Chen WQ, Koh SA, Li LJ. Exploring Associations between Cardiac Structure and Retinal Vascular Geometry. *J Am Heart Assoc.* 2020 Apr; 9(7):e014654.
 83. Zhang X, Martin RM, Oken E, **Aris IM**, Yang S, Kramer MS. Growth during infancy and early childhood and its association with metabolic risk markers at 11.5 years. *Am J Epidemiol.* 2020 Apr;189(4):286-293.
 84. Fogel A, McCrickerd K, **Aris IM**, Goh AT, Chong YS, Tan KH, Yap F, Shek LP, Meaney MJ, Broekman BFP, Godfrey KM, Gluckman PD, Chong MFF, Lee YS, Forde CG. Eating behaviors moderate the associations between risk factors in the first 1000 days and adiposity outcomes at 6 years of age. *Am J Clin Nutr.* 2020 May;111(5):997-1006.
 85. Michael N, Gupta V, Sadananthan SA, Sampathkumar A, Chen L, Pan H, Tint MT, Lee KJ, Loy SL, **Aris IM**, Shek L, Yap F, Godfrey KM, Leow M, Lee YS, Kramer MS, Jeyakumar H, Fortier MV, Chong YS, Gluckman PD, Velan SS, Karnani N. Determinants of Intramyocellular Lipid Accumulation in Early Childhood. *Int J Obes (Lond).* 2020 May;44:1141–1151
 86. Chu AHY, **Aris IM**, Ng S, Loy SL, Bernard JY, Tint MT, Yuan WL, Godfrey KM, Chan J, Shek LPC, Chong YS, Tan KH, Ang SB, Tan H, Chern B, Yap F, Lee YS, Lek N, Leow M, Khoo CM, Chan SY. Anthropometric measures and HbA1c to detect dysglycaemia in Asian women planning pregnancy: preconception cohort study. *Sci Rep.* 2020 Jun;10(1):9228.
 87. Chia A, de Seymour JV, Wong G, Sulek K, Han T-L, McKenzie EJ, **Aris IM**, Godfrey KM, Yap F, Tan KH, Shel LPC, Chong YS, Lee YS, Kramer MS, Karnani N, Chong MFF, Baker PN. Maternal plasma metabolic markers of neonatal adiposity and associated biological and lifestyle factors. *Sci Rep.* 2020 Jun; 10(1):9422.
 88. Pang WW, McCrickerd K, Quah PL, Fogel A, **Aris IM**, Yuan WL, Fok D, Chua MC, Lim SB, Shek LPC, Chan SY, Tan KH, Yap F, Godfrey KM, Meaney MJ, Wlodek M, Eriksson JG, Kramer MS, Forde CG, Chong MFF, Chong YS. Is breastfeeding associated with later child eating behaviors? *Appetite.* 2020 Jul;150:104653.
 89. Chen LW, Xu J, Soh SE, **Aris IM**, Tint MT, Gluckman PD, Tan KH, Shek LPC, Chong YS, Yap F, Godfrey KM, Gilbert JA, Karnani N, Lee YS. Implication of gut microbiota in the association between infant antibiotic exposure and childhood obesity and adiposity accumulation. *Int J Obes (Lond).* 2020 Jul;44(7):1508–1520.
 90. Tint MT, Sadananthan SA, Soh SE, **Aris IM**, Michael N, Tan KH, Shek LPC, Yap F, Gluckman PD, Chong YS, Godfrey KM, Velan SS, Chan SY, Eriksson JG, Fortier MV, Zhang C, Lee YS. Maternal Glycemia during pregnancy and Offspring Abdominal Adiposity measured by MRI in the Neonatal Period and Preschool Years. *Am J Clin Nutr.* 2020 Jul;112(1):39-47.

91. Soria-Contreras DC, Rifas-Shiman SL, **Aris IM**, Perng W, Switkowski KM, Téllez-Rojo MM, Trejo-Valdivia B, López-Ridaura R, Oken E. Weight trajectories after delivery are associated with adiposity and cardiometabolic markers at 3 years postpartum among women in Project Viva. *J Nutr.* 2020 Jul;150(7):1889-1898.
92. Perng W, Rahman ML, **Aris IM**, Michelotti G, Sordillo JE, Chavarro JE, Oken E, Hivert MF. Metabolite profiles of the relationship between body mass index (BMI) milestones and metabolic risk during early adolescence. *Metabolites.* 2020 Jul;10(8):316.
93. Huang L, Chen WQ, **Aris IM**, Teo LLY, Wong TY, Koh SA, Li LJ. Associations between cardiac function and retinal microvascular geometry among Chinese adults. *Sci Rep.* 2020 Sep;10(1):14797.
94. Ong YY, Sadananthan SA, **Aris IM**, Tint MT, Yuan WL, Chan YH, Ng S, Huang JY, Velan SS, Fortier MV, Godfrey KM, Shek LPC, Tan KH, Gluckman PD, Yap F, Choo JTL, Ling LH, Tan K, Chong YS, Eriksson JG, Wlodek M, Chan SY, Lee YS, Michael N. Mismatch between fetal and postnatal growth in the first 2 years of life is associated with higher blood pressure and insulin resistance in childhood: the GUSTO cohort study. *Int J Epidemiol.* 2020 Oct;49(5):1591-1603.
95. Hu JJ*, **Aris IM***, Lin Pi-I D, Rifas-Shiman SL, Perng W, Woo Baidal JA, Wen D, Oken E. Longitudinal associations of modifiable risk factors in the first 1000 days with weight status and metabolic risk in early adolescence. *Am J Clin Nutr.* 2021 Jan;113(1):113-122.
96. **Aris IM**, Rifas-Shiman SL, Jimenez MP, Li LJ, Hivert MF, Oken E, James P. Neighborhood Child Opportunity Index and Adolescent Cardiometabolic Risk. *Pediatrics* 2021 Feb;147(2):e2020018903.
97. Monthe-Dreze C**, Rifas-Shiman SL, **Aris IM**, Shivappa N, Hebert JR, Sen S, Oken E. Maternal Diet in Pregnancy is Associated with Differences in Child Body Mass Index Trajectories from Birth to Adolescence. *Am J Clin Nutr.* 2021 Apr;113(4):895-904.
98. Cai S, **Aris IM**, Yuan WL, Tan KH, Godfrey KM, Gluckman PD, Shek LPC, Chong YS, Yap F, Fortier MV, Meaney MJ, Lee YS, Qiu A. Neonatal amygdala microstructure mediates the relationship between gestational glycemia and offspring adiposity. *BMJ Open Diabetes Res Care.* 2021;9(1):e001396.
99. Hu J**, **Aris IM**, Lin Pi-I D, Wei C, Gao M, Li L, Wan N, Liu Y, Wang Y, Liu Y, Ma Y, Wen D. Association of maternal dietary patterns during pregnancy and offspring weight status across infancy: results from a prospective birth cohort in China. *Nutrients.* 2021 Jun;13(6):2040.
100. **Aris IM**, Sarvet A, Stensrud MJ, Neugebauer R, Li LJ, Hivert MF, Oken E, Young JG. Separating algorithms from questions and causal inference with unmeasured exposures: an application to birth cohort studies of early BMI rebound. *Am J Epidemiol.* 2021 Jul;190(7):1414–1423.
101. Wu AJ**, **Aris IM**, Rifas-Shiman SL, Oken E, Taveras E, Hivert MF. Longitudinal associations of juice intake in infancy with DXA-measured abdominal adiposity in mid-childhood and early adolescence. *Am J Clin Nutr.* 2021 Jul;114(1):117-123.
102. **Aris IM**, Lin Pi-I D, Rifas-Shiman SL, Bailey LC, Boone-Heinonen J, Eneli I, Solomonides AE, Janicke D, Toh S, Forrest CB, Block JP. Association of Early Antibiotic Exposure with Childhood Body Mass Index Trajectory Milestones. *JAMA Netw Open.* 2021 Jul;4(7):e2116581.
103. Toh JY, Quah PL, Wong CH, Lun Yuan W, **Aris IM**, McCrickerd K, Godfrey KM, Chong YS, Shek LP, Tan KH, Yap F, Meaney MJ, Forde CG, Lee YS, Broekman BFP, Chong MFF.

- Evaluation of a child food reward task and its association with maternal feeding practices. *PLoS One*. 2021;16(7):e0254773.
104. Ong J, Sadananthan SA, Soh SE, Ng S, Yuan WL, **Aris IM**, Tint MT, Michael N, Loy SL, Tan KH, Godfrey KM, Shek LP, Yap KP, Lee YS, Chong YS, Chan SY. Increasing nausea and vomiting of pregnancy is associated with sex- dependent differences in early childhood growth: the GUSTO Mother-Offspring Cohort Study. *BMC Pregnancy Childbirth*. 2021 Aug;21(1):578.
 105. **Aris IM**, Sordillo JE, Rifas-Shiman SL, Young JG, Gold DR, Camargo CA, Hivert MF, Oken E. Childhood Patterns of Overweight and Wheeze and Subsequent Risk of Asthma and Obesity in Adolescence. *Paediatr Perinat Epidemiol*. 2021 Sep;35(5):569-577.
 106. Huang JY, Cai S, Huang Z, Tint MT, Yuan WL, **Aris IM**, Godfrey KM, Karnani N, Lee YS, Chan JKY, Chong YS, Eriksson JG, Chan SY. Analyses of child cardiometabolic phenotype following assisted reproductive technologies using a pragmatic trial emulation approach. *Nat Commun*. 2021 Sep;12(1):5613.
 107. Alarcon LM, Rifas-Shiman SL, Sordillo JE, **Aris IM**, Wu AJ, Hivert MF, Oken E, Chavarro JE. Association of Mode of Obstetric Delivery With Child and Adolescent Body Composition. *JAMA Netw Open*. 2021 Oct;4(10):e2125161.
 108. Carwile JL, Seshasayee S, **Aris IM**, Rifas-Shiman SL, Henn BC, Calafat AM, Sagiv S, Oken E, Fleisch AF. Prospective associations of mid-childhood plasma per- and polyfluoroalkyl substances and pubertal timing. *Environ Int*. 2021 Nov;156:106729.
 109. Wu AJ**, **Aris IM**, Rifas-Shiman SL, Oken E, Chavarro JE, Taveras E, Hivert MF. Associations of central adiposity gain in childhood with cardiometabolic health in adolescence. *Obesity (Silver Spring, Md)*. 2021 Nov;29(11):1882-1891.
 110. Jimenez MP, **Aris IM**, Rifas-Shiman SL, Young JG, Tiemeier H, Hivert MF, Oken E, James P. Early Life Exposure to Greenness and Executive Function and Behavior: An Application of Inverse Probability Weighting of Marginal Structural Models. *Environ Pollut*. 2021 Dec;291:118208.
 111. Plows JP, **Aris IM**, Rifas-Shiman SL, Goran MI, Oken E. Associations of Maternal Non-nutritive Sweetener Intake During Pregnancy with Offspring Body Mass Index and Body Fat from Birth to Adolescence. *Int J Obes (Lond)*. 2022 Jan;46(1):186-193.
 112. Stratakis N, Garcia E, Chandran A, Hsu T, Alshawabkeh A, **Aris IM**, Aschner JL, Breton C, Burbank A, Camargo Jr. CA, Carroll KN, Chen Z, Claud EC, Dabelea D, Dunlop AL, Elliott AJ, Ferrara A, Ganiban JM, Gern JE, Gold DR, Gower WA, Hertz-Picciotto I, Karagas MR, Karr CJ, Lester B, Leve LD, Litonjua AL, Ludena Y, McEvoy CT, Miller R, Mueller N, O'Connor TG, Oken E, O'Shea TM, Perera F, Stanford JB, Rivera-Spoljaric K, Rundle A, Trasande L, Wright R, Zhang Y, Zhu Y, Berhane K, Gilliland F, Chatzi L. Role of Childhood Asthma in Obesity Development: A nationwide U.S. multi-cohort study. *Epidemiology*. 2022 Jan;33(1):131-140.
 113. **Aris IM**, Rifas-Shiman SL, Mínguez-Alarcón L, Sordillo JE, Hivert MF, Oken E, Chavarro JE. Association of mode of delivery with offspring pubertal development in Project Viva: a prospective pre-birth cohort study in the United States. *Hum Reprod*. 2022 Jan;37(1):54-65.
 114. Alarcon LM, Rifas-Shiman SL, Mitchell C, Sordillo JE, **Aris IM**, Hivert MF, Oken E, Chavarro JE. Cesarean delivery and metabolic health and inflammation biomarkers during mid-childhood and early adolescence. *Pediatr Res*. 2022 Feb;91(3):672-680.

115. Wu AJ**, **Aris IM**, Hivert MF, Rocchio C, Ochoa A, Klompas M, Taveras EM. Association of Changes in Obesity Prevalence With the COVID-19 Pandemic in Youth in Massachusetts. *JAMA Pediatr.* 2022 Feb;176(2):198-201.
116. **Aris IM**, Perng W, Dabelea D, Ganiban J, Liu C, Marceau K, Robertson OC, Hockett CW, Mihalopoulos N, Kong X, Herting MM, O'Shea TM, Jensen ET, Hivert MF, Oken E. Analysis of early life growth and age at pubertal onset in US children. *JAMA Netw Open.* 2022 Feb;5(2):e2146873.
117. Switkowski KM, **Aris IM**, Gingras V, Oken E, Young JG. Estimated causal effects of complementary feeding behaviors on early childhood diet quality in a US cohort. *Am J Clin Nutr.* 2022 Apr;115(4):1105-1114.
118. McGovern C**, Rifas-Shiman SL, Switkowski KM, Woo Baidal JA, Hivert MF, Oken E, **Aris IM**. Association of cow's milk intake in early childhood with adiposity and cardiometabolic risk in early adolescence. *Am J Clin Nutr.* 2022 Aug;116(2):561-571.
119. Ong YY, Pang WW, Huang JY, **Aris IM**, Sadanathan SA, Tint MT, Yuan WL, Chen LW, Gluckman PD, Yap F, Chong YS, Godfrey KM, Chong MFF, Chan SY, Eriksson JG, Wlodek ME, Lee YS, Michael N. Breastfeeding may benefit cardiometabolic health of children exposed to increased gestational glycemia in utero. *Eur J Nutr.* 2022 Aug;61(5):2383-2395.
120. Wu AJ**, **Aris IM**, Hivert MF, Fiechtner L, Davison KK, Taveras EM. Associations of infant feeding practices and early childhood adiposity in the Rise & SHINE longitudinal cohort. *J Pediatr Gastroenterol Nutr.* 2022 Aug;75(2):e15-19.
121. Rifas-Shiman SL, **Aris IM**, Bailey LC, Daley MK, Heerman W, Janicke D, Lin Pi-I, Petimar J, Block JP. Changes in obesity and BMI among children and adolescents with selected chronic conditions during the COVID-19 pandemic. *Obesity (Silver Spring, Md).* 2022 Oct;30(10):1932-1937.
122. Ong YY, Tint MT, **Aris IM**, Yuan WL, Chen LW, Fortier MV, Choo J, Ling LH, Shek LPC, Tan KH, Gluckman PD, Yap F, Chong YS, Godfrey KM, Chong MFF, Chan SY, Eriksson JG, Wlodek ME, Rolfe EDL, Ong KK, Michael N, Lee YS. Newborn body composition and child cardiovascular risk markers: a prospective multi-ethnic Asian cohort study. *Int J Epidemiol.* 2022 Dec;51(6):1835-1846.
123. Lin Pi-I D, Rifas-Shiman SL, **Aris IM**, Chudnov DL, Daymont C, Freedman F, Block JP. Cleaning of anthropometric data from PCORnet electronic health records using automated algorithms. *JAMIA Open.* 2022 Dec;5(4):1-9.
124. **Aris IM**, Perng W, Dabelea D, Padula AM, Alshawabkeh A, Vélez-Vega CM, Aschner JL, Camargo Jr. CA, Sussman TJ, Dunlop AL, Elliott AJ, Ferrara A, Zhu Y, Joseph CLM, Singh AM, Hartert T, Cacho F, Karagas MR, North-Reid T, Lester BM, Kelly N, Ganiban JM, Chu SH, O'Connor TG, Fry RC, Norman G, Trasande L, Restrepo B, James P, Oken E. Associations of Neighborhood Opportunity and Social Vulnerability with Trajectories of Child Body Mass Index and Obesity Among U.S. Children. *JAMA Netw Open.* 2022 Dec;5(12):e2247957.
125. Qureshi F, **Aris IM**, Rifas-Shiman SL, Perng W, Oken E, Rich-Edwards J, Cardenas A, Enlow MB, Belfort MB, Tiemeier H. Associations between cord blood telomere length and adiposity growth from infancy to adolescence. *Pediatr Obes.* 2023 Jan;18(1):e12977.
126. Lin Pi-I D, Cardenas A, Rifas-Shiman SL, Zota A, Hivert MF, **Aris IM***, Sanders AP*. Non-essential and essential trace element mixtures and kidney function in early pregnancy – a cross-sectional analysis in Project Viva. *Environ Res.* 2023 Jan;216(4):114846.

127. Monthé-Drèze C**, **Aris IM**, Rifas-Shiman SL, Shivappa N, Hebert JR, Oken E, Sen S. The role of prenatal psychosocial stress in the associations of a pro-inflammatory diet in pregnancy with child adiposity and growth trajectories. *JAMA Netw Open*. 2023 Jan;6(1):e2251367.
128. Ong YY, Pang WW, Michael N, **Aris IM**, Sadananthan SA, Tint MT, Choo JTL, Ling LH, Karnani N, Velan SS, Fortier MV, Tan KH, Gluckman PD, Yap F, Chong YS, Godfrey KM, Chan SY, Eriksson JG, Chong MFF, Wlodek ME, Lee YS. Timing of complementary food introduction, breastfeeding, and child cardiometabolic risk: a prospective multi-ethnic Asian cohort study. *Am J Clin Nutr*. 2023 Jan;117(1):83-92.
129. Visontay R, Mewton L, Slade T, **Aris IM**, Sunderland M. Moderate alcohol consumption and depression: A marginal structural model approach promoting causal inference. *Am J Psychiatry*. 2023 Mar 1;180(3):209-217
130. Michael N, Gupta V, Fogel A, Huang JY, Chen L, Sadananthan SA, Ong YY, **Aris IM**, Pang WW, Yuan WL, Loy SL, Tint MT, Tan KH, Chan JKY, Chan SY, Shek LPC, Yap F, Chong YS, Gluckman PD, Velan SS, Forde CG, Godfrey KM, Lee YS, Eriksson JG, Karnani N. Longitudinal characterization of determinants associated with obesogenic growth patterns in early childhood. *Int J Epidemiol*. 2023 Apr;52(2):426-439.
131. Perng W, **Aris IM**, Slopen N, Younoszai N, Swanson V, Mueller NT, Sauder KA, Dabelea D. Application of Life's Essential 8 to assess cardiovascular health during early childhood. *Ann Epidemiol*. 2023 Apr;80:16-24.
132. Miller RL, Schuh H, Chandran A, **Aris IM**, Bendixsen C, Blossom J, Breton C, Camargo CA Jr, Canino G, Carroll KN, Commodore S, Cordero JF, Dabelea DM, Ferrara A, Fry RC, Ganiban JM, Gern JE, Gilliland FD, Gold DR, Habre R, Hare ME, Harte RN, Hartert T, Hasegawa K, Khurana Hershey GK, Jackson DJ, Joseph C, Kerver JM, Kim H, Litonjua AA, Marsit CJ, McEvoy C, Mendonça EA, Moore PE, Nkoy FL, O'Connor TG, Oken E, Ownby D, Perzanowski M, Rivera-Spoljaric K, Ryan PH, Singh AM, Stanford JB, Wright RJ, Wright RO, Zanobetti A, Zoratti E, Johnson CC; program collaborators for Environmental influences on Child Health Outcomes. Incidence Rates of Childhood Asthma with Recurrent Exacerbations in the U.S. Environmental influences on Child Health Outcomes (ECHO) Program. *J Allergy Clin Immunol*. 2023 Jul;152(1):84-93.
133. Zhang M, **Aris IM**, Lin PD, Rifas-Shiman SL, Brady TM, James-Todd T, Oken E, Hivert MF. Prenatal and childhood per- and polyfluoroalkyl substance (PFAS) exposures and blood pressure trajectories from birth to late adolescence in a prospective U.S. pre-birth cohort. *J Am Heart Assoc*. 2023 Aug;12(17):e030760.
134. Soria-Contreras DC, **Aris IM**, Rifas-Shiman SL, Perng W, Hivert MF, Chavarro JE, Oken E. Associations of age at first birth and lifetime parity with weight and adiposity across midlife in women from Project Viva. *Obesity*. 2023 Sep;31(9):2407-2416.
135. Fang F, Zhou L, Perng W, Marsit CJ, Knight AK, Cardenas A, Aung MT, Hivert MF, **Aris IM**, Goodrich JM, Smith AK, Gaylord A, Fry RC, Oken E, O'Connor G, Ruden DM, Trasande L, Herbstman JB, Camargo Jr. CA, Bush NR, Dunlop AL, Dabelea DM, Karagas MR, Breton CV, Ober C, Everson TM, Page G, Ladd-Acosta C. Evaluation of pediatric epigenetic clocks across multiple tissues. *Clin Epigenetics*. 2023 Sep 2;15(1):142.
136. **Aris IM**, Perng W, Dabelea D, Padula AM, Alshwabkeh A, Vélez-Vega CM, Aschner JL, Camargo Jr. CA, Sussman TJ, Dunlop AL, Elliott AJ, Ferrara A, Joseph CLM, Singh AM, Breton CV, Hartert T, Cacho F, Karagas MR, Lester BM, Kelly N, Ganiban JM, Chu SH, O'Connor TG, Fry RC, Norman G, Trasande L, Restrepo B, Gold DR, James P, Oken E.

- Neighborhood Opportunity and Vulnerability and Incident Asthma Among Children. *JAMA Pediatr.* 2023 Oct;177(10):1055-1064.
137. Shanahan KH**, James P, Rifas-Shiman SL, Gold DR, Oken E, **Aris IM**. Neighborhood conditions and resources in childhood and dampness and pests at home in adolescence. *J Pediatr.* 2023 Nov;262:113625.
 138. Ong YY**, Rifas-Shiman SL, Perng W, Belfort MB, Law E, Hivert MF, Oken E, Tiemeier H, **Aris IM**. Growth velocities across distinct early life windows and child cognition: insights from a contemporary US cohort. *J Pediatr.* 2023 Dec;263:113653.
 139. Zhang M, Rifas-Shiman SL, **Aris IM**, Fleisch AF, Lin PD, Nichols AR, Oken E, Hivert MF. Associations of prenatal per- and polyfluoroalkyl substance (PFAS) exposures with offspring adiposity and body composition at age 16-20 years: Project Viva. *Environ Health Perspect.* 2023 Dec;131(12):127002.
 140. Rifas-Shiman SL, **Aris IM**, Switkowski K, Young JG, Fleisch AF, James-Todd T, Zota AR, Perng W, Hivert MF, Rich-Edwards JW, Perez-Capotosto M, Chavarro JE, Oken E. Cohort Profile Update: Project Viva Women. *Int J Epidemiol.* 2023 Dec;52(6):e332-e339.
 141. Shipp GM, Wosu AC, Knapp EA, Sauder K, Dabelea D, Perng W, Yeyi Z, Ferrara A, Dunlop A, Deoni S, Gern J, Porucznik C, **Aris IM**, Karagas MR, Sathyanarayana S, O'Connor TG, Kecia C, Wright R, Hockett CW, Johnson C, Hertz-Picciotto I, Meeker J, Cordero J, Paneth N, Comstock SS, Kerver JM. Maternal Pre-Pregnancy BMI, Breastfeeding, and Child BMI. *Pediatrics.* 2024 Jan;153(1):e2023061466.
 142. Zhu J, Eliassen AU, **Aris IM**, Stinson SE, Holm JC, Hansen T, Hivert MF, Bønnelykke K, Hirschhorn JN, Chan YM. Pediatric Features of Genetic Susceptibility to Polycystic Ovary Syndrome. *J Clin Endocrinol Metab.* 2024 Jan;109(2):380-388.
 143. Nguyen A**, **Aris IM**, Harris MB, Kang JD, Murray M, Rodriguez EK, Nazarian A. Musculoskeletal Health: An Ecological Study Assessing Disease Burden and Research Funding. *Lancet Reg Health Am.* 2024 Jan;29:100661.
 144. Wong G, Narasimhan K, Cheong WF, Ng S, **Aris IM**, Loy SL, Bendt A, Tan KH, Yap F, Shek LPC, Chong YS, Gluckman PD, Godfrey KM, Lee YS, Wenk M, Karnani N, Chan SY. Umbilical cord plasma Lysophosphatidylcholines and Triacylglycerols Associated with Birthweight Percentiles. *Nutrients.* 2024 Jan;16(2):274.
 145. Bradfield JP, Kember RL, Ulrich A, Balkiyarova Z, Alyass A, **Aris IM**, Bell JA, Broadway LA, Chen Z, Chai JF, Davies NM, Fernandez-Orth N, Fore R, Ganguli A, Heiskala A, Hottenga JJ, Itñiguez C, Kobes S, Leinonen J, Lowry E, Lyytikäinen LP, Mahajan A, Pitkänen N, Schnurr T, Strachan DP, Thiering E, Vogelesang S, Wade K, Wang CA, Wong A, Holm LA, Chesí A, Choong C, Cruz M, Elliot P, Franks S, Frithioff-Bøjsøe C, Gauderman WJ, Glessner JT, Gilsanz V, Griesman K, Hanson RL, Kaakinen M, Kalkwarf H, Kelly A, Kindler J, Kähönen M, Lanca C, Lappe J, Lee N, McCormack S, Mentch FD, Mitchell JA, Mononen N, Niinikoski H, Oken E, Pahkala K, Sim X, Teo YY, Baier LJ, Beijsterveldt TV, Adair LS, Boomsma DI, de Geus E, Guxens M, Eriksson JG, Felix JF, Gilliland FD, Hakonarson H, Hansen T, Hardy R, Hivert MF, Holm JC, Jaddoe VW, Jarvelin MR, Lehtimäki T, Mackey DA, Meyre D, Mohlke KL, Mykkänen J, Oberfield S, Pennell CE, Perry JRB, Raitakari O, Rivadeneira F, Saw SM, Sebert S, Shepherd JA, Standl M, Sørensen TIA, Timpson NJ, Torrent M, Viikari J, Willemsen G, The Early Growth Genetics Consortium, McCarthy MI, Freathy RM, Widén E, Rader DJ, Prokopenko I, Voight BF, Zemel BS, Grant SFA, Cousminer DL. Trans-ancestral genome-wide association study of longitudinal pubertal height growth and shared heritability with adult health outcomes. *Genome Biol.* 2024 Jan;25(1):22.

146. Laubach ZM, Bozack A, **Aris IM**, Slopen N, Tiemeier H, Hivert MF, Cardenas A, Perng W. Maternal prenatal social experiences and offspring epigenetic age acceleration from birth to mid-childhood. *Ann Epidemiol.* 2024 Feb;90:28-34.
147. Mlodnicka A, Mansolf M, Chandran A, **Aris IM**, Calub CA, Ahmad S, Shapiro A, Cochran D, Restrepo B, Schmidt R, Hertz-Picciotto I, Bennett D, Gold DR, O'Shea TM, Leve L, Schweitzer JB. Prediction of internalizing and externalizing symptoms in late childhood from attention-deficit/hyperactivity disorder symptoms in early childhood. *Dev Psychopathol.* 2024 Mar; In press.
148. Burdeau JA, Stephenson BJK, **Aris IM**, Preston EV, Hivert MF, Oken E, Calafat AM, Rifas-Shiman SL, Zota A, James-Todd T. First trimester plasma PER- And Polyfluoroalkyl Substances (PFAS) and blood pressure trajectories across the second and third trimesters of pregnancy. *Environ Int.* 2024 Apr;186:108628.
149. **Aris IM***, Lin PD*, Wu AJ, Dabelea DM, Lester BM, Wright RJ, Karagas MR, Kerver JM, Dunlop AL, Joseph CLM, Camargo Jr CA, Ganiban JM, Schmidt RJ, Strakovsky RS, McEvoy CT, Hipwell AE, O'Shea TM, McCormack LA, Maldonado LE, Niu Z, Ferrara A, Zhu Y, Chehab RF, Kinsey EW, Bush NR, Nguyen RHN, Carroll KN, Barrett ES, Lyall K, Sims-Taylor LM, Trasande L, Biagini JM, Breton CV, Patti MA, Coull B, Amutah-Onukagha N, Hacker MR, James-Todd T, Oken E. Birth Outcomes in Relation to Neighborhood Food Access and Individual Food Insecurity During Pregnancy in the Environmental influences on Child Health Outcomes (ECHO)-Wide Cohort Study. *Am J Clin Nutr.* 2024 May;119(5):1216-1226.
150. Zhang M, Perng W, Rifas-Shiman SL, **Aris IM**, Oken E, Hivert MF. Metabolomic Signatures for Blood Pressure from Early to Late Adolescence: Findings from a U.S. Cohort. *Metabolomics.* 2024 May;20(3):52.
151. Liang L**, **Aris IM**. Minimal changes in daily flossing behavior among US adults in 2009-2020. *J Am Dent Assoc.* 2024 Jul;155(7):587-596.
152. Perng W, Galai N, Zhao Q, Lintonjua A, Geiger S, Sauder K, O'Shea TM, Hivert MF, Oken E, Dabelea D, **Aris IM**. Sociodemographic correlates of high cardiovascular health (CVH) across childhood and adolescence: a prospective study among two cohorts in the ECHO consortium. *J Am Heart Assoc.* 2024 Aug;13(15):e036279.
153. Cho S, Rifas-Shiman SL, Harnois-Leblanc S, **Aris IM**, Oken E, Hivert MF. Associations of abnormal maternal glucose regulation in pregnancy with offspring adiposity, insulin resistance, and adipokine markers during childhood and adolescence. *J Pediatr.* 2024 Sep;272:114100.
154. Liang L**, **Aris IM**. Association between age at first birth and long-term dental caries experience among women in the United States. *J Womens Health (Larchmt).* 2024 Oct;33(10):1409-1416.
155. Price N, Lin PD, Cardenas A, Rifas-Shiman SL, Zota AR, Hivert MF, Oken E, **Aris IM***, Sanders AP*. Prenatal metal exposures and kidney function in adolescence in Project Viva. *Environ Health.* 2024 Oct;23(1):94.
156. Liang L**, Chen CY, **Aris IM**. Association of the Life's Essential 8 cardiovascular health score with periodontitis among US adults. *J Clin Periodontol.* 2024 Nov;51(11):1502-1510.
157. Sadikova E, Widome R, Robinson E, **Aris IM**, Tiemeier H. Delaying high school start times impacts depressed mood among students: evidence from a natural experiment. *Soc Psychiatry Psychiatr Epidemiol.* 2024 Nov;59(11):2073-2082.

158. **Aris IM**, Wu AJ, Lin PD, Zhang M, Farid H, Hedderson MM, Zhu Y, Ferrara A, Chehab RF, Barrett ES, Carnell S, Camargo, Jr. CA, Chu SH, Mirzakhani H, Kelly RS, Comstock SS, Strakovsky RS, O'Connor TG, Ganiban JM, Dunlop AL, Dabelea D, Breton CV, Bastain TM, Farzan S, Call CC, Hartert T, Snyder B, Santarossa S, Cassidy-Bushrow AE, O'Shea TM, McCormack LA, Karagas MR, McEvoy CT, Alshawabkeh A, Zimmerman E, Wright RJ, McCann M, Wright RO, Coull B, Amutah-Onukagha N, Hacker MR, James-Todd T, Oken E. Neighborhood Food Access in Early Life and Trajectories of Child Body Mass Index and Obesity. *JAMA Pediatr.* 2024 Nov;178(11):1172-1182.
159. Rokoff LB, Rifas-Shiman SL, **Aris IM**, Lin PD, Young JG, Rosen CJ, Calafat AM, Gordon CM, Oken E, Fleisch AF. Mid-childhood plasma concentrations of per- and polyfluoroalkyl substances, modifiable lifestyle factors, and bone mineral density through late adolescence. *Environ Sci Technol.* 2024 Nov;58(45):19970-19980.
160. Yi L**, Rifas-Shiman SL, Jimenez MP, Lin PD, Suel E, Hystad P, Larkin A, Hankey S, Zhang Q, Klompmaker J, Oken E, Hivert MF, **Aris IM**, James P. Assessing greenspace and cardiovascular health through deep-learning analysis of street-view imagery in a cohort of US children. *Environ Res.* 2024 Nov;265:120459.
161. Yi L**, Harnois-Leblanc S, Rifas-Shiman SL, Suel E, Jimenez MP, Klompmaker J, Lin PD, Hystad P, Hankey S, Zhang W, Hivert MF, Oken E, **Aris IM**, James P. Satellite-based and street-view greenspace and adiposity in US children. *JAMA Netw Open.* 2024 Dec;7(12):e2449113.
162. Rifas-Shiman SL, **Aris IM**, Switkowski KM, Young JG, Fleisch AF, Perng W, Chavarro JE, Cardenas A, Gold DR, Zhang M, James P, Whootten RC, Kleinman KP, Oken E, Hivert MF. Cohort Profile Update: Project Viva Children. *Int J Epidemiol.* 2024 Dec;53(6):dyae162.
163. **Aris IM**, Rifas-Shiman SL, Perng W, Yi L, de Ferranti SD, Hivert MF, Oken E. Trajectory of Life's Essential Eight Cardiovascular Health Score Across Childhood and Adolescence. *JAMA Cardiol.* 2024 Dec; In press.
164. McCormack L, MacKenzie DA, Deutsch A, Beene D, Hockett C, Ziegler K, Knapp EA, Kress AM, Li ZR, Bakre S, Habre R, Jacobson L, Karagas M, LeWinn K, Nozadi SS, Alshawabkeh A, **Aris IM**, Bekelman TA, Bendixsen C, Camargo C, Cassidy-Bushrow AE, Croen L, Ferrara A, Fry R, Gebretsadik T, Hartert T, Hirko K, Karr CJ, Kloog I, Loftus C, Magee KE, McEvoy C, Neiderhiser JM, O'Connor TG, O'Shea TM, Straughen JK, Urquhart A, Wright R, Elliott A. A Descriptive Examination of Ruralicity in the Environmental Influences on Child Health Outcomes (ECHO) Cohort: Implications, Illustrations, and Future Directions. *J Rural Health.* 2025 Jan;41(1):e12908.
165. Nichols A, **Aris IM**, Rifas-Shiman S, Hivert MF, Chavarro JE, Oken E. History of Pregnancy Loss and Risk for Higher Midlife Blood Pressure in Parous Females. *J Womens Health (Larchmt).* 2025 Jan;34(2):187-197.
166. Knapp E, Kress AM, Ghidey R, Gorham TJ, Galdo B, Petrill SA, **Aris IM**, Bastain TM, Camargo Jr. CA, Coccia MA, Cragoe N, Dabelea D, Dunlop AL, Gebretsadik T, Hartert T, Hipwell AE, Johnson CC, Karagas MR, LeWinn KZ, Maldonado LE, McEvoy CT, Mirzakhani H, O'Connor TG, O'Shea TM, Wang Z, Wright RJ, Ziegler K, Zhu Y, Bartlett CW, Lau B. A Latent Trait-based Measure as a Data Harmonization and Missing Data Solution for Socioeconomic Status: An Application in the Environmental influences on Child Health Outcomes (ECHO) Cohort. *Epidemiology.* 2025 Jan; In press.
167. Ong YY**, Ng NBH, Michael N, Cai S, Tint MT, Ooi DSQ, Tan AP, Tan KH, Shek L, Yap FKP, Gluckman PD, Chong YS, Eriksson JG, Chan SY, Meaney MJ, Silveira PP, Tiemeier H,

- Law EC, **Aris IM**, Lee YS. Associations of fetal and postnatal growth trajectories with child cognition: the GUSTO cohort study. *Int J Epidemiol*. 2025 Feb;54(1):dyaf012.
168. Miller RL, Schuh H, Chandran A, Habre R, Angal J, **Aris IM**, Aschner JL, Bendixsen CG, Blossom J, Bosquet-Enlow M, Breton CV, Camargo, Jr. CA, Carroll KN, Commodore S, Croen LA, Dabelea DM, Deoni SCL, Ferrara A, Fry RC, Ganiban JM, Geiger SD, Gern JE, Gilliland FD, Gogcu S, Gold DR, Hare ME, Harte RN, Hartert TV, Hertz-Picciotto I, Hipwell AE, Jackson DJ, Karagas MK, Hershey GKK, Kim H, Litonjua AA, Marsit CJ, McEvoy CT, Mendonça EA, Moore PE, Nguyen AP, Nkoy FL, O'Connor TG, Oken E, Ownby DR, Perzanowski M, Rivera-Spoljaric K, Sathyanarayana S, Singh AM, Stanford JB, Stroustrup A, Towe-Goodman N, Wang VA, Woodruff TJ, Wright RO, Wright RJ, Zanobetti A, Zoratti EM, Johnson CC, for the ECHO Cohort Consortium. Child Opportunity Index at Birth and Asthma with Recurrent Exacerbations in the U.S. ECHO Program. *J Allergy Clin Immunol*. 2025 Mar; In press.
 169. Hu J**, Yang H, Liu Y, Zheng L, Zhang X, Yang J, Yang Z, Wang X, Liu, B, **Aris IM***, Xia Y*. Longitudinal association of cumulative risk factors in early life, genetic risk, and healthy lifestyles during adulthood with the risk of type 2 diabetes. *BMC Med*. 2025 Mar; In press.
 170. Liu C, Chow SM, **Aris IM**, Dabelea D, Neiderhiser JM, Leve LD, Blair C, Catellier DJ, Perng W, Camargo, Jr. CA, O'Connor TG, Zhao Q, McEvoy CT, Mirzakhani H, Ferrara A, Peterson A, Zhu Y, Yao L, Gao G, Straughen JK, Comstock SS, Cassidy-Bushrow AE, Rundle A, Kinsey E, Mackenzie D, Khalsa AS, Alshawabkeh AN, Zimmerman E, O'Shea TM, Breton CV, Bastain TM, Conlon RK, Koinis-Mitchell D, D'Sa V, Cushman G, McCormack L, Mihalopoulos NL, Geiger SD, Ganiban JM. Early-Life Factors and Body Mass Index Trajectories Among U.S. Children in the ECHO Cohort. *JAMA Netw Open*. 2025 Mar; In press.
 171. Lin Z**, Rifas-Shiman SL, Perng W, Capotosto MP, Shifren J, Joffe H, Hivert MF, Chavarro JE, Oken E, **Aris IM**. Neighborhood Vulnerability and Age of Natural Menopause and Menopause Symptoms Among Midlife Women. *JAMA Netw Open*. 2025 Mar; In press.
 172. Zhang M, **Aris IM**, Cardenas A, Rifas-Shiman SL, Lin PD, Ngo LH, Oken E, Hivert MF, Juraschek SP. Pregnancy metal mixtures and blood pressure and hypertension in mid-life: a prospective U.S. cohort study. *Hypertension*. 2025 Apr;82(4):640-651.
 173. Burdeau JA, Stephenson BJK, **Aris IM**, Mahalingaiah S, Chavarro JE, Preston EV, Hivert MF, Oken E, Calafat AM, Rifas-Shiman SL, Zota AR, James-Todd T. Early pregnancy per- and polyfluoroalkyl substances (PFAS) and maternal post-pregnancy weight trajectory. *Obesity*. 2025 Apr;33(4):807-816.
 174. **Aris IM**, Rifas-Shiman SL, de Ferranti SD, Hivert MF, Perng W. Pre- and Perinatal Factors of Life's Essential Eight Cardiovascular Health Trajectories. *JAMA Netw Open*. 2025 Apr;8(4):e257774.
 175. Sadikova E, McLaughlin K, Robinson E, Rifas-Shiman SL, Oken E, **Aris IM**, Tiemeier H. Shorter weeknight sleep duration mediates the relationship between earlier adrenarche and depressed mood in adolescents. *J Affect Disord*. 2025 May;376:52-58.

Other peer-reviewed scholarship

1. **Aris IM**, Fleisch AF, Oken E. Developmental Origins of Disease: Emerging Prenatal Risk Factors and Future Disease Risk. *Curr Epidemiol Rep*. 2018 Sep;5(3):293-302.

2. Oken E, **Aris IM**, Young JG. Pre-pregnancy weight and preterm birth: a causal relation? *Lancet Diabetes Endocrinol.* 2019 Sep;7(9):665-5.
3. **Aris IM**, Oken E. Childhood adiposity trajectories: discerning order amongst the chaos. *Am J Clin Nutr* 2019 Nov;110(5):1049-1050.
4. **Aris IM**, Block JP. Childhood obesity interventions – going beyond the individual. *JAMA Pediatr.* 2022 Jan;176(1):e214388.
5. Laubach ZM, Holekamp KE, **Aris IM**, Slopen N, Perng W. Applications of lifecourse epidemiology conceptual models in ecology and evolutionary biology. *Biol Lett.* 2022 Jul;18(7):20220194.

Scholarship without named authorship

1. Godfrey KM, Cutfield W, Chan SY, Baker PN, Chong YS; **NiPPeR Study Group**. Nutritional Intervention Preconception and During Pregnancy to Maintain Healthy Glucose Metabolism and Offspring Health ("NiPPeR"): study protocol for a randomised controlled trial. *Trials.* 2017 Mar 20;18(1):131 (member of study group).
2. Loo EXL, Soh SE, Loy SL, Ng S, Tint MT, Chan SY, Huang JY, Yap F, Tan KH, Chern BSM, Tan HH, Meaney MJ, Karnani N, Godfrey KM, Lee YS, Chan JKY, Gluckman PD, Chong YS, Shek LP, Eriksson JG; **S-PRESTO Study Group**. Cohort profile: Singapore Preconception Study of Long-Term Maternal and Child Outcomes (S-PRESTO). *Eur J Epidemiol.* 2021 Jan;36(1):129-142 (member of study group).

Letters to the Editor

1. **Aris IM**. More on Neighborhood Food Access by Child Body Mass Index and Obesity—Reply. *JAMA Pediatr.* 2025 Feb;179(2):222-223.

Non-peer reviewed scholarship in print or other media:

Reviews, chapters, and editorials

1. Perng W, **Aris IM**, Norris J, Dabelea D. 'A life course approach to obesity and diabetes', in Diana Kuh, Ezra Susser, Joanna M. Blodgett, and Yoav Ben-Shlomo (eds), *A Life Course Approach to the Epidemiology of Chronic Diseases and Ageing*, 3rd edn (Oxford, 2025; online edn, Oxford Academic, 1 Apr. 2025).

Thesis:

Determinants of Growth and Body Composition in Singaporean Children. Izzuddin M Aris.
<https://scholarbank.nus.edu.sg/handle/10635/121124>

Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings:

1. Pi-I D Lin, Cardenas A, Rifas-Shiman SL, Zota AR, Hivert MF, Oken E, **Aris IM**,* Sanders AP.* *Early Life Metal Profiles and Kidney Function in Mid-Adolescence: A Preliminary Study in Project Viva.* American Heart Association EPI Lifestyle Scientific Sessions, February 2023, Boston, MA (Poster presentation). *Circulation.* 2023 Mar;147(Suppl. 1):AP168.
2. **Aris IM**, Rifas-Shiman SL, Perng W, Capotosto MP, Hivert MF, Chavarro JE, Oken E. *Associations of Neighborhood Vulnerability with Menopause Symptoms and Timing of Onset at*

Midlife in Project Viva. NIH Specialized Centers of Research Excellence (SCORE) on Sex Differences Conference, November 2023, Bethesda, MD (Poster presentation).

3. **Aris IM**, Rifas-Shiman SL, Perng W, Manson J, Joffe H, Hivert MF, Chavarro JE, Oken E. *Neighborhood Vulnerability and Trajectory of Cardiovascular Health Among Women in Project Viva*. NIH Specialized Centers of Research Excellence (SCORE) on Sex Differences Conference, September 2024, Bethesda, MD (Poster presentation).
4. **Aris IM**, Rifas-Shiman SL, de Ferranti SD, Hivert MF, Perng W. *Pre- and Perinatal Factors of Life's Essential Eight Cardiovascular Health Trajectories*. American Heart Association EPI Lifestyle Scientific Sessions, March 2025, New Orleans, LA (Poster presentation).

Narrative Report

I am an epidemiologist and Assistant Professor in the Department of Population Medicine at Harvard Medical School and Harvard Pilgrim Health Care Institute. I earned my BSc in Biomedical Sciences with 2nd upper class honors in 2010, and PhD in Epidemiology in 2015, both from the National University of Singapore. As a doctoral student, I was awarded a university-sponsored scholarship to conduct my research examining the early-life determinants of childhood growth and body composition using data from a prospective birth cohort in Singapore. Upon graduating in 2015, I served as a postdoctoral fellow at the Singapore Institute for Clinical Sciences, where I continued my work in quantifying the relationships of pre-, peri- and postnatal risk factors with important childhood health outcomes. In 2017, I received a highly competitive university-sponsored fellowship from Singapore to support my advanced postdoctoral training at the Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute. Upon completion of that fellowship, I was recruited to join the faculty.

My Area of Excellence is Investigation. My research focuses on the paradigm of the developmental origins of health and disease (DOHaD), with an overall goal of quantifying the extent to which early life risk factors at critical developmental periods during the lifecourse affect important health outcomes. A major focus of my research pertains to identifying pre-, peri- and postnatal predictors of childhood growth, obesity, and obesity-related conditions such as cardiometabolic disease and accelerated pubertal development. I have made several contributions to the field including authoring over 180 peer-reviewed publications in notable journals such as JAMA Pediatrics, JAMA Cardiology, and JAMA Network Open, of which over 30 have a Relative Citation Ratio above the 75th percentile on the NIH icite index. I have also received several awards for my work from national and international societies, including the inaugural Young Investigator Award by the Nestlé Nutrition Institute, the Outstanding Manuscript Award by the Nutrition Obesity Research Center at Harvard, the US DOHaD Scientific Award by the US DOHaD Society, Rising Star Awards by both the Australian and New Zealand Obesity Society and the Society for Pediatric and Perinatal Epidemiology, and the Outstanding Young Alumni Award by the National University of Singapore.

I have established methodological expertise in longitudinal modelling of trajectories of growth and other health outcomes using various statistical techniques such as linear spline and natural cubic spline models, latent class growth mixture models and shape-invariant growth curve models. Using these techniques, I have characterized distinct growth trajectory milestones of infancy BMI peak, childhood BMI rebound, and age at peak height velocity, identified several early-life factors (such as maternal glycemia, breastfeeding initiation and duration, parental obesity, and socioeconomic status) affecting these developmental milestones, and identified adverse cardiometabolic profiles in children related to these trajectory milestones and patterns. My expertise on the topics of growth modelling and child obesity have subsequently led to editorial pieces in acclaimed journals such as the American Journal of Clinical Nutrition and JAMA Pediatrics.

Teaching and education. I am currently serving as faculty instructor and Co-Director for the Clinical Epidemiology and Population Health component of the Essentials of the Profession I course, which is a core component of the Harvard Medical School Pathways curriculum. In this role, I collaborate with other course instructors to lead and prepare the course syllabus and assignments, and teach core skills of clinical epidemiology (biostatistics, study design, and critical reasoning) to 1st-year medical and dental students, to which I have received enthusiastic and positive feedback for my teaching, as tracked through Harvard's online evaluations. I also serve as a small group leader for the Clinical Epidemiology and Population Health component of the Essentials of the Profession II course for 3rd-, 4th-, and 5th-year medical students, and a guest lecturer at Harvard School of Public Health on the topic of obesity epidemiology and clinical nutrition. I have mentored PhD students, post-doctoral and clinical fellows, and taught several of my peers. In recognition of my mentoring efforts, I was bestowed the 2022 Young Mentor Award by Harvard Medical School.