CURRICULUM VITAE

Tessa Crume, PhD, MSPH **Updated January 2023 Current Appointments** 2018-Associate Professor, Colorado School of Public Health, Department of Epidemiology Associate Professor, University of Colorado School of Medicine, Department of Obstetrics 2018-& Gynecology Program Director, Doctoral and Master's Programs in Epidemiology, Colorado School of 2020-Public Health **Education** 1997 Bachelor of Science, Microbiology, Colorado State University, Fort Collins, CO 2001 Master of Science in Public Health, University of Colorado Health Sciences Center, Department of Preventive Medicine. Thesis: Under-ascertainment of Child Maltreatment Fatalities by Death Certificates. Advisor: Carolyn DiGuiseppi 2010 Doctor of Philosophy, Epidemiology, Colorado School of Public Health. Dissertation: The Impact of In Utero Exposure to Maternal Diabetes on Childhood Growth Trajectories and Obesity Patterns. Mentor: Dana Dabelea **Academic Appointment and Positions** 2011-2017 Assistant Professor, Colorado School of Public Health, Department of Epidemiology 2013-2020 Program Director, Doctoral and Master's Programs in Epidemiology, Colorado School of Public Health **Professional Positions** 1997-2000 Professional Research Assistant, University of Colorado Health Sciences Center 2000-2007 Epidemiologist, Colorado Department of Public Health and Environment Program Evaluation Consultant, Centers for Disease Control and Prevention, Division of 2007-2011 Adolescent and School Health (DASH), Chronic Disease Prevention Branch, Contract through Rocky Mountain Center for Health **Honors and Awards** 2012 International Society for Developmental Origins of Health and Disease Travel Stipend Alpha Upsilon Chapter of Delta Omega National Honorary Society in Public Health 2016 2019 Faculty Excellence in Student-Mentored Research, Colorado School of Public Health 2019 Faculty Sponsor Award, Graduate School, University of Colorado **Professional Affiliations** 2011-12 Member, International Society for Developmental Origins of Health and Disease 2015-Member, Society for Epidemiologic Research Member, American Diabetes Association 2015-2016-Member, American Society for Nutrition 2017-Member, American Heart Association Member, Adult Congenital Heart Association 2020-

Member, Black Mamas Matter Alliance

2021-

Professional Leadership and Service		
International	/National Service	
2014-2016	Maternal Child Health Bureau (MCHB), Health Resources & Services Administration	
	(HRSA), U.S. Department of Health and Human Services (US DHHS), MCHB Performance	
	Measures Workgroup	
	Role: Advisor	
2016-	Centers for Disease Control and Prevention, HRSA, US DHHS, Congenital Heart Public	
	Health Consortium	
	Role: Scientific Advisor	
2016-	Society for Epidemiology Research, Committee on Diversity and Inclusion in Epidemiology	
	Role: Member	
2017	Society for Epidemiologic Research, 50 th Anniversary Annual Meeting	
2017	Role: Judge for Early Stage Investigators Poster Session	
2017	American Society of Nutrition, Experimental Biology Conference	
2017	Role: Session moderator "Childhood nutritional epidemiology"	
2017	American Society of Nutrition, Experimental Biology Conference	
2017	Role: Judge for Emerging Leader Poster Competition	
2018	Centers for Disease Control and Prevention, Obesity Prevention and Control Branch,	
2010	Childhood Obesity Data Initiative	
	Role: Scientific Advisor	
2018-20	Society for Epidemiologic Research, Annual Meeting	
2010 20	Role: Abstract Reviewer	
2020	Adult Congenital Heart Association	
2020	Role: Scientific Advisor for the Access to Care Work-group	
2019-20	International Consortium on Teaching Epidemiology: a multi-national effort to define core	
2017 20	competencies for epidemiologists in academic settings. University of Zurich.	
	Role: Member of International Consortium	
2021-	American Diabetes Association, 81 st Scientific Sessions	
2021	Role: Abstract Reviewer	
State Service	Troie. Hostiact Reviewel	
2007-08	Colorado Health Data Advisory Group	
2007 00	Role: Chair	
2016-	Colorado Department of Public Health and Environment, Maternal and Child Health Data	
2010	Advisory Committee	
	Role: Scientific Advisor	
University of	Colorado Anschutz Medical Campus (AMC) Committees	
2014-	Program Directors Committee, Graduate School	
2017-	Cannabis Research Committee	
2017-	Perinatal Research Network	
2020-	Graduate Council, Graduate School	
	hool of Public Health – School-wide Committees	
2012-16	Maternal Child Health Program Development Committee	
2012 10	Role: Developed epidemiology curriculum for MCH program	
2012 14	11. C. A MILL	

Role: Developed guidelines for admissions review for Epidemiology Dept. and reviewed applications

Admissions Committee MPH

2012-14

2014

	Role: Admissions review
2018-	Education and Curriculum Committee (ECC)
	Role: Chair and Epidemiology Department representative
2020	Search Committee
	Position: Associate Dean for Equity and Inclusion
	Role: Member
2021	Gender Equity in Academia
	Role: Member
Department of	of Epidemiology
2012-	Epidemiology Department Education and Curriculum Committee
	Role: Member
2013-	Admissions Committee, MS and PhD Program in Epidemiology
	Role: Chair and reviewer
2016	Search Committee
	Position: Department Administrator
	Role: Member
2016-18	Hoffman Infectious Disease Scholarship Selection Committee
	Role: Reviewer
2018-19	Search Committee
	Position: Tenure-track Assistant or Associate Professor
	Role: Chair
2019-	Epidemiology Department Appointment and Promotions Committee (DAPCO)
	Role: Member
Review, Ref	eree and Editorial Activities
Editorial	
2019-	Population Health Metrics Journal
	Role: Associate Editor
Professional	Society Review Activities
2014-21	American Diabetes Association
2017-19	Society for Epidemiologic Research
Journal Peer	Review Activities
2011-2020	Diabetes Care
2011-2018	Diabetologia
2012-2019	Diabetes
2013-2014	Journal of Nutrition Education and Behavior
2013-2016	Journal of Developmental Origins of Disease
2012-2020	Pediatric Obesity Pediatric Obesity
2013-2015	Journal of Adolescent Health
2014-	Maternal Child Health Nutrition
2014	Journal of Clinical Endocrinology and Metabolism
2013-2016	International Breastfeeding Journal
2014-2016	Diabetic Medicine
2014-2015	Obesity
2015	International Journal of Child Health and Nutrition
2015-16	European Journal of Pediatrics
2015	Journal of Health Promotion Practice
2016	Viral Immunology
	UJ

2017-	International Journal of Obesity
2017-	JAMA Pediatrics
2017-	Journal of Maternal and Child Health
2017-	Journal of Pediatrics
2018-	American Journal of Clinical Nutrition
2018-	American Journal of Epidemiology
2018	Nature Endocrinology
2019-	American Journal of Obstetrics & Gynecology
2019	Pediatric Diabetes
2019	BMC Psychiatry
2020	American Heart Journal
2020	Pediatrics
2020	Pediatric Endocrinology
2021	Journal of Perinatology
Grant Review	
2008	Colorado State Tobacco Education and Prevention Partnership
2008	Colorado Physical Activity and Nutrition Program
2016	Research Council United Kingdom – Medical Research Council
2016	Ohio University Research Committee
2015-16	Colorado Clinical & Translational Sciences Institute (CCTSI) Maternal and Child Health
	Pilot Grant
2015	Health Services Research Development Grant, CU-AMC
2023	Colorado Clinical & Translational Sciences Institute KTR
	ures, Presentations and Workshops
International/	National
	National National Symposium on Milk and Lactation: Defining the Critical Questions
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International/ 2012 2014 2017 2019	National National Symposium on Milk and Lactation: Defining the Critical Questions University of Colorado School of Medicine Aurora, Colorado, January 18-20, 2012 Session: Breastfeeding and the At-Risk Neonate Title: "Early life programming for obesity and the impact of breastfeeding" American Diabetes Association 74 th Scientific Sessions San Francisco, California, June 13-17, 2014 Session: Longer-term Consequences of Gestational Diabetes on Offspring Title: "Obesity in offspring of diabetic mothers and the impact of breastfeeding" International Diabetes Foundation 2017 Congress Abu Dhabi, United Arabs Emirates, December 4-8, 2017 Symposium: "Offspring of women with diabetes" Title: "Obesity and metabolic syndrome in offspring of women with diabetes" Great Wall International Congress of Cardiology Bejing, China, October 11, 2019 Title: "Surveillance of Congenital Heart Defects in Adolescents and Adults in the United States" Adult Congenital Heart Association Regional Conference Aurora, Colorado, May 4, 2019

	to diabetes in diero.
State/Local	
2010	Colorado Department of Public Health and Environment
	Denver, CO, March 21, 2011
	Title: "Obesity, diabetes and pregnancy: the short and long-term consequences for women
	and their offspring"
2011	Perinatal Research Center Seminar Series
	Department of Pediatrics, October 12, 2011
	Title: "Epidemiological evidence of fetal programming"
2011	Program in Reproductive Sciences Lecture, November 1, 2011
	Title: "The consequences of fetal over-nutrition and early infant diet on offspring growth and adiposity"
2014	Tobacco Education, Prevention and Cessation Grant Program Review Committee, Colorado
2014	Department of Public Health and Environment, May 6, 2014
	Title: "Secondary analysis of evaluation of the Baby and Me Tobacco Free program"
2014	Pediatric Nutrition Seminar Series, Department of Pediatrics, February 13, 2014
2011	Title: "The long-term impact of postnatal diet on growth patterns and body composition"
2015	Tobacco Education, Prevention and Cessation Grant Program Review Committee, Colorado
	Department of Public Health and Environment, June 19, 2015
	Title: "Impact of a prenatal smoking cessation program targeting low-income women in
	Colorado"
2018	Public Health in the Rockies, Colorado Public Health Association
	Copper Mountain, Colorado, August 29, 2018
	Title: "Cigarette, e-cigarette, marijuana and alcohol use among pregnant and postpartum
	women – Colorado Pregnancy Risk Assessment Monitoring Survey"
2018	Tobacco Prevention Advisory Committee, Colorado Department of Public Health and
	Environment, June 21, 2018
	Title: "The impact and cost savings of the Baby and Me Tobacco Free Program in
	Colorado"
2019	Public Health in the Rockies, Keystone, CO, August 29, 2019
	Title: "Findings from the Colorado Congenital Heart Defects Surveillance System"
2019	Preventative Medicine Residency, Epidemiology Seminar Series, May 9, 2019
	Title: "CHORDS: Distributed Query of Electronic Health Record Systems for Surveillance
	and Research"
2019	Change Agent, Center for Improving Value in Health Care, April 30, 2019
	Title "Surveillance of Congenital Heart Defects Across the Lifespan"

Title: "Long-term impact of breastfeeding on childhood adiposity among children exposed

Teaching Record

2022

Educational Leadership

to diabetes in utero.

2013-2020 Co-Director, Doctor of Philosophy (PhD) and Masters of Science (MS) Program in Epidemiology

Oversee curriculum, admissions, advising of all PhD and MS students and weekly journal club. I developed a research assistantship policy to support PhD and MS students and lead the department's efforts in our 2019 application for accreditation by the Council on Education for Public Health (CEPH).

Lifecourse Epidemiology of Adiposity and Diabetes Center, March 14, 2022. Title:

"Prenatal cannabis use and the association with neonatal brain morphology"

2020- Director, Doctor of Philosophy (PhD) and Masters of Science (MS) Program in Epidemiology

Oversee curriculum, admissions, advising, weekly journal club and supervision of student research assistantship program.

Training Grants

July 2013-June 2016

U.S. Department of Health and Human Services, Health Resources and Services Administration (HRSA). Advanced Nursing Education Grants: "Developing Doctorate of Nursing Practice Public Health Nurse Leaders." HRSA DHHS D09HP25935 Role: ColoradoSPH Co-Lead

Curriculum Development

2012-13 Master's in Public Health, Maternal Child Health (MCH) concentration Developed a course of study for the MPH in MCH at the CSPH

2017-18 Medical Scientist Training Program (MD, PhD in Epidemiology)

Developed a course of study for physician-scientist training at the CU SOM and

CSPH

Course Development

2011 EPID6630 (Introduction to Epidemiology)

Adapted an existing course to an online format

2013 EPID6644 (Maternal and Child Health Epidemiology)

Developed a novel problem-based learning curriculum for maternal child health

epidemiology

2020 EPID6644 (Maternal and Child Health Epidemiology)

Adapted existing in-person class to an asynchronous online course

Course Director/Instructor

2012 (Sum) EPID6630 "Introduction to Epidemiology". CSPH-AMC, 3 credits, 45 students

2014 (Spring) EPID6630 "Introduction to Epidemiology". CSPH-AMC, 3 credits, 91 students

2014 (Fall) EPID6644 "Maternal Child Health Epidemiology". CSPH, AMC, 3 credits, 22 students

2015 (Spring) EPID6630 "Introduction to Epidemiology". CSPH-AMC, 3 credits, 111 students

2015 (Fall) EPID6644 "Maternal Child Health Epidemiology". CSPH, AMC, 3 credits, 15 students

2016 (Spring) EPID6630 "Introduction to Epidemiology". CSPH-AMC, 3 credits, 100 students

2016 (Fall) EPID6644 "Maternal Child Health Epidemiology". CSPH, AMC, 3 credits, 10 students

2017 (Spring) EPID6630 "Introduction to Epidemiology". CSPH-AMC, 3 credits, 100 students

2017 (Fall) EPID6644 "Maternal Child Health Epidemiology". CSPH, AMC, 3 credits, 18 students

2018 (Spring) EPID6630 "Introduction to Epidemiology". CSPH-AMC, 3 credits, 96 students

2018 (Fall) EPID6644 "Maternal Child Health Epidemiology". CSPH, AMC, 3 credits, 24 students

2019 (Spring) EPID6630 "Introduction to Epidemiology". CSPH-AMC, 3 credits, 123 students

2019 (Fall) EPID6644 "Maternal Child Health Epidemiology". CSPH, AMC, 3 credits, 13 students

2019 (Fall) EPID6630 "Introduction to Epidemiology". CSPH-AMC, 3 credits, 107 students

2020 (Sum) PUBH6691 "Capstone Integration". CSPH-AMC, 1 credit, 7 students

2020 (Fall) EPID6644 "Maternal Child Health Epidemiology". CSPH, AMC, 3 credits, 26 students

2020 (Fall) EPID6630 "Introduction to Epidemiology". CSPH, AMC, 3 credits, 154 students

2021 (Spring) EPID6630 "Introduction to Epidemiology". CSPH, AMC, 3 credits, 120 students

2021 (Fall) EPID6644 "Maternal Child Health Epidemiology". CSPH, AMC, 3 credits, 42 students

2022 (Spring) EPID6630 "Introduction to Epidemiology". CSPH, AMC, 3 credits, 125 students

2022 (Fall) EPID6644 "Maternal Child Health Epidemiology". CSPH, AMC, 3 credits, 45 students

Independent Study Director:

2013 (Fall) EPID6644 "Maternal Child Health Epidemiology" CSPH-AMC, 3 credits. 2 students.

Description: Analyzed public health data to prioritize MCH programs for Boulder County Public Health

2016 (Fall and Spring)

Epidemiologic Field Methods, EPID7911. CSPH-AMC, 3 credits. 1 student: Katherine Ziegler . Description: Colorado Multiple Institutional Review Board Protocol Development

2018 (Summer & Fall)

Epidemiologic Field Methods, EPID7911. CSPH-AMC, 3 credits. 1 student: Lina Brou Description: Assessment of the role of chronic pain among adolescents and adults with congenital heart disease.

Small Group Leader/Instructor

2011 (Spring) EPID6630 "Introduction to Epidemiology" CSPH-AMC

2011-22 (Fall) Molecules to Medicine (M2M) Bench to Bedside. Biostatistics/Epidemiology. Medical School-AMC

Professional Education, Seminars and Workshops

2007 American Evaluation Association

Baltimore, Maryland, November 9, 2007

Session Title: Quantitative Methods Skill Building Workshops

"Nonparametric Methods for Program Evaluation Data"

2008 American Evaluation Association

Denver, CO November 6, 2008

Session Title: Quantitative Methods Skill Building Workshops

"Linear and Logistic Regression for Program Evaluation"

2011 Project TEACH, Center for Public Health Practice

Southwestern Area Health Education Center Durango, CO October 6-8, 2011

"Logic Models for Program Evaluation"

2011 How to Practice Evidence-Based Health Care

12th Annual Rocky Mountain Workshop, Vail, CO, August 1-5, 2011

2014 Amendment 35 Regional Grant Writing Trainings

Center for Public Health Practice, March 23, 2014

"Program Evaluation"

Advises/Mentees

2018

MPH Capstone Advisor

2015	Susan Calcaterra, MPH Epidemiology. Capstone Title: The association between stimulant,
	opioid and multiple drug use on behavioral care utilization in a safety-net health system.
2016	Gebreala Berhe, MPH Epidemiology concentration. Capstone Title: Predictors of smoking
	relapse in a widely implemented, incentive-based smoking cessation program in Colorado.

Rachel Wolff. MPH Health Services Research. Capstone Title: A model for cost

effectiveness evaluation of health and economic benefits of the Baby & Me Tobacco Free

prenatal smoking cessation program in Colorado.

Naga (Sri) Gummadi. MPH Epidemiology. Capstone Title: Comparison of detection of

prenatal smoking between medical records and birth certificate data.

Diane Garcia. MPH Epidemiology. Capstone Title: The association between maternal

stress and prenatal cannabis use.

- Tessa Crume, PhD, MSPH 2022 Marie Hathaway. MPH Maternal Child Health. Capstone Title: Program evaluation of the efficacy of a telehealth smoking cessation service for pregnant women who smoke in Colorado: BABY & Me-Tobacco Free Kyrsten Hall. MPH Maternal Child Health. Capstone Title: Family structure and gender-2022 biased bias in parental stress for families with a child with Autism Spectrum Disorder MS Thesis Mentor Amber Khanna, MS in Clinical Science. Thesis title: The prevalence of mental illness in 2018 adolescents and adults with congenital heart disease. Thesis mentor Erika Iisa, MS in Epidemiology. Thesis title: The role of maternal stress and single and 2020 poly-substance use during pregnancy. Thesis mentor Alexandra Tillman, MS in Epidemiology. Thesis title: The effect of socioeconomic context 2020 on congenital heart disease related outcomes. Thesis mentor MS Thesis Committee Chair 2014 Kathleen Waugh. MS in Epidemiology. Thesis title: "Perinatal factors and childhood adiposity". 2017 Natasha Kureshi, MS in Epidemiology. Thesis title: The relationship between amino acid and lipid metabolites and islet autoimmunity. 2020 Julia Van Dyke, MS in Epidemiology. Thesis title: Maternal report of severity for children with Autism and other developmental disorders. MS Thesis Committee Member 2015 Julie Rodriguez. MS in Epidemiology. Thesis title: The associations between physical activity, neighborhood built environment features, and social capital in the rural setting of Colorado's San Luis Valley. Thesis Committee Member PhD Dissertation Mentor 2019 Lindsey Duca, PhD in Epidemiology. Dissertation title: Investigating bias in a populationlevel electronic health records surveillance system of individuals with congenital heart defects. Dissertation Mentor
- 2023 Yisha Li, Candidate PhD in Epidemiology. Dissertation title: Multi-morbidity patterns among smokers. Dissertation Co-Mentor
- Lina Brou, Candidate PhD in Epidemiology. Dissertation title: Medication-assisted Current treatment (MAT) in primary care settings and the risk of subsequent overdose-related ambulatory or inpatient hospitalization for individuals with opioid use disorder (OUD) in Colorado. Dissertation Mentor

PhD Dissertation Chair

- Christine Hockett, PhD in Epidemiology. Dissertation title: The influence of pubertal 2017 timing on the development of cardiometabolic disease in youth exposed to maternal diabetes in utero. Committee Chair
- 2018 Lauren Pierpoint, PhD in Epidemiology. Dissertation title: The role of intrinsic and extrinsic factors on injury patterns among recreational skiers and snowboarders at a Colorado ski resort. Committee Chair
- Evan Carey, PhD in Epidemiology. Dissertation title: Chronic pain and opiate use among 2018 US veterans. Committee Chair
- 2019 Randi Johnson, PhD in Epidemiology. Dissertation title: Dietary patterns and metabolomics in the nutritional epidemiology of type 1 diabetes. Committee Chair
- Kristen Polinski, PhD in Epidemiology. Dissertation title: The role of lipid mediators in pre-2020 clinical rheumatoid arthritis. Committee Chair
- Amena Keshawarz, PhD in Epidemiology. Dissertation title: The association of sex and 2020 menopause with cardiac structure and function: the CARDIA Study. Committee Chair

Teresa Buckner, PhD in Epidemiology. Dissertation title: "Oxylipins, anti-inflammatory diet

and type 1 diabetes. Committee Chair

Current Kaylynn Aiona, PhD in Epidemiology. Dissertation title: "The association of parental

migration characteristics with the risk of autism spectrum disorder and intellectual

disability". Committee Chair

Current Kari Rockhill, PhD in Epidemiology. Dissertation title: "Polysubstance drug use in the

general population: present day behaviors and critical windows." Committee Chair

PhD Dissertation Committee Mentor

Brittni Fredrickson, PhD in Epidemiology. Dissertation title: Age-related heterogeneity in

the onset of islet autoimmunity. Committee Member.

Research Record

Grants

Active

Sickle Cell Disease Surveillance Project (Sontag, PI)

10/1/21 - 9/30/2024

Centers for Disease Control and Prevention – NCBDD - DD191906

Subcontract with CI International

Total direct costs:

Role: Subcontract PI

A program to create a comprehensive surveillance system for all individuals with sickle cell disease in

Colorado.

Comprehensive Long-Term Follow-up for Newborns with Sickle Cell Disease (Sontag, PI)

09/01/2021 - 8/31/2024

Centers for Disease Control and Prevention

Subcontract with CI International

Total direct costs: \$347.176

Role: Subcontract PI

A program to create a long-term follow-up surveillance approach for all infants in Colorado and Wyoming with a positive newborn screening result for sickle cell disease

Colorado SEED Component A - Enhanced Epidemiologic Research and Participant Follow-Up Surveys (DiGuiseppi, PI)

7/1/2021 - 6/30/2026

Centers for Disease Control and Prevention - U01 DD001290

Total Direct Costs: \$347,038 (annual)

Role: Co-I

A multisite epidemiologic research study of Autism Spectrum Disorder (ASD) in the U.S. and long-term follow-up of social, emotional and intellectual outcomes.

Surveillance of Diabetes in Children and Adolescents between 0-17 Years of Age (DICAYA) – Component A (Crume and Dabelea, MPI)

09/30/2020 - 09/29/2025

Centers for Disease Control and National Institute of Diabetes, Digestive and Kidney Disorders – U18DP006517-01-00

Total direct costs; \$160,678 (annual)

Role: Multiple Principal Investigator (MPI) (contact PI)

A surveillance grant to estimate yearly prevalence and incidence of type 1 and type 2 diabetes in youth aged 0-17 in Colorado using electronic medical records and health insurance claims.

Surveillance of Diabetes in Children and Adolescents ages 18-45 Years of Age (DICAYA) – Component B (Crume and Dabelea, MPI)

09/30/2020 - 09/29/2025

Centers for Disease Control and National Institute of Diabetes, Digestive and Kidney Disorders – U18DP006518-01-00

Total direct costs; \$160,473 (annual)

Role: MPI (contact PI)

A surveillance grant to estimate yearly prevalence and incidence of type 1 and type 2 diabetes in adults aged 18-45 years in Colorado using electronic medical records and health insurance claims.

Baby and Me Tobacco Free Impact Study

7/1/2022 - 6/30/2023

Rocky Mountain Health Plans Foundation: 15 FLA 67798

Total direct costs \$62,000 (annual)

Role: PI

An impact study of an extended statewide implementation of a pre- and post-natal smoking cessation program designed to improve quit rates, infant outcomes and maternal delivery complications.

Pending

Baby and Me Tobacco Free Smoking Cessation Program

7/1/2023 - 6/30/2027

Colorado Department of Public Health and Environment

Total direct costs \$900,000

Role: PI

Implementation of a state-wide pre- and post-natal smoking cessation program designed to improve quit rates, infant outcomes and maternal delivery complications.

Completed

Incremental Privacy-Protected Record Linkage (iPPRL)

2/1/19 – 1/31/22 Patient-Centered Outcomes Research Institute (PCORI): ME-2018C1-11287

Total direct costs: (3-years) \$928,262

Role: Co-Investigator

A methods grant meant to expand current patient health record linkage methods for medical research to better address data security and improve the accuracy of linkages of the same patient across healthcare systems.

Study to Explore Early Development (SEED) (Robinson-Rosenberg, PI)

7/1/16 - 6/30/22

Centers for Disease Control and Prevention - U01DD001210

Total direct costs: (yearly) \$710,000

Role: Co-Investigator

The largest study in the U.S. to help identify factors that may put children at risk of autism spectrum disorder and other developmental disabilities.

Baby and Me Tobacco Free Impact Study 2

7/1/2018 - 6/30/2021

Rocky Mountain Health Plans Foundation: 15 FLA 67798

Total direct costs \$62,000 (annual)

Role: PI

An impact study of an extended statewide implementation of a pre- and post-natal smoking cessation program designed to improve quit rates, infant outcomes and maternal delivery complications.

Arsenic and Birth and Pregnancy Outcomes Study

6/1/2018 - 5/31/2020

NIH NIEHS - ES028416-01A1

Total direct costs (2 years) \$456,687

Role: Co-investigator

A birth cohort study to elucidate the role of maternal exposure to inorganic arsenic in drinking water on adverse pregnancy outcomes and birth defects, particularly congenital heart defects.

The Influence of *In Utero* Cannabis Exposure on Neonatal Brain Morphology and Structural Connectivity

8/1/2018 - 8/31/2020

NIDA R21 - DAO43833

Total direct costs (2 years) \$275,000

Role: Co-Principal Investigator with Dr. Pilyoung Kim

A high-risk, high-reward pilot study to quantify the impact of *in utero* cannabis exposure on neonate brain morphology and structural connectively.

Surveillance of Congenital Heart Defects (CHD) Across the Lifespan

9/30/2015 - 9/29/2019

Centers for Disease Control and Prevention - NU50DD004935-01(Crume)

Total direct costs (4 years) \$1,800,000

Role: Principal Investigator

This project will develop a population-based surveillance system for CHD among adolescents and adults in Colorado to quantify and assess the burden of CHDs. Expected outcomes include characterization of health outcomes, patterns of health care usages and long-term outcomes including survival and life expectancy for adolescents and adults with CHDs in Colorado.

Baby and Me Tobacco Free Impact Study 1

7/01/2014 - 06/30/2018

Rocky Mountain Health Plans Foundation - FLA 15-67798 (Crume)

Total direct costs (3 years) \$178,863

Role: Principal Investigator

A program evaluation of widespread implementation of the Baby and Me Tobacco Free program in Colorado. The evaluation will focus on determining reach, fidelity of implementation and impact of the program on cessation metrics, birth outcomes, breastfeeding and secondhand smoke exposure.

SEARCH Nutrition Ancillary Study 2

6/1/2014 - 3/31/2018

NIDDK - 2RO1 DK077949-05 (Mayer-Davis)

Total direct costs (4 years) \$739,656

Role: Site Principal Investigator

SNAS2 examines the influence of nutrition (both early life and childhood) among youth the diabetes on the development of chronic complications of diabetes, markers of CVD, the prevalence and severity of diabetic retinopathy and the prevalence severity and progression of diabetic kidney disease within SEARCH participants with type 1 and type 2 diabetes.

Air Pollution, Subclinical CVD and Inflammatory Markers in the SEARCH Cohort

9/27/2011 - 6/30/2015

NIEHS - R01ES019168 (Pruett)

Total direct costs (4 years) \$40,128

Role: Co-Investigator

This ancillary study of the SEARCH study that explores the role of ambient air pollution in geographically distinct areas in the United States on inflammatory markers and measures of cardiovascular function in youth with type 1 diabetes.

SEARCH for Diabetes in Youth 3, Colorado Center

9/30/2010-9/29/2015

Centers for Disease Control and National Institute of Diabetes, Digestive and Kidney Disorders - U18DP003256 (Dabelea)

Total direct costs (5 years) \$2,448,025

Role: Co-Investigator

This study is one of five centers designated by CDC to conduct surveillance of childhood diabetes. Aims include assessing trends in the incidence of diabetes by type, race/ethnicity, and sex, and conducting longitudinal follow-up to understand the metabolic, behavioral and socio-economic determinants of subclinical chronic diabetes complications.

Evaluation Outcomes of the State Tobacco Ed. Prevention Partnership (STEPP)

9/1/2013-6/30/2015

CDPHE - FLA 13-49163 (Crume)

Total direct costs (2 years) \$128,442

Role: Principal Investigator

An impact study prenatal smoking cessation program for low-income women in Colorado designed to improve pre- and postnatal quit rates, neonatal and maternal delivery outcomes.

Exploring the Fuel-Mediated Programming of Neonatal Growth (Healthy Start I)

8/1/2009-7/31/2014

NIDDK - R01DK076648 (Dabelea)

Total direct costs (5 years) \$3,485,505

Role: Co-Investigator

A pre-birth prospective cohort study enrolling 1400 pregnancy women to explore the relationships between maternal obesity, nutrition, intra-partum fuels, and insulin resistance on neonatal body size and fatness.

SEARCH Nutrition Ancillary Study 1

4/1/2008 - 3/31/2013

NIDDK - R01DK077949 (Mayer-Davis)

Total direct costs (5 years) \$3,302,805

Role: Co-Investigator

The overall goal of the SEARCH Nutrition Ancillary Study (SNAS) is to examine associations of nutritional factors with 1) the progression of insulin secretion defects, and 2) the presence of CVD risk factors in youth with T1DM. These two aspects of the metabolic status of youth with T1DM are key determinants of long-term risk for serious complications of diabetes mellitus.

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- 68. Moore BF, Sauder KA, Shapiro ALB, **Crume T**, Kinney GL, Dabelea D. Fetal exposure to cannabis and childhood metabolic outcomes: The Healthy Start Study. J Clin Endocrinol Metab. 107(7):e2862-e2869. Doi:10.1210/clinem/dgac101. 2022
- 69. Malik FS, Sauder KA, **Crume T**, et al. Trends in glycemic control among youth and young adults with diabetes: The Search for Diabetes in Youth Study. Diabetes Care 45(2):285-294. Doi:10.2337/dc21.0507. 2022

70. Wiggins LD, Tian LH, Rubenstein E, Schieve L, Daniels J, Pazol K, DiGuiseppi C, Barger B, Moody E, Rosenberg S, Bradley C, Hsu M, Rosenberg CR, Christensen D, Crume T, Prandey J, Levy SE. Features that best define the heterogeneity and homogeneity of autism in preschool-age children: a multisite case-control analysis replicated across two independent samples. Autism Research. DOI 10.1002/aur.2663. 2022

Books and Chapters in Books

- 1. **Crume TL**, Dabelea D. Exposure to diabetes *in utero*, offspring growth, and risk for obesity. In: Lustig R (ed): Obesity Before Birth. Volume 30(3): 193-204. Springer 2011
- 2. **Crume TL**, Dabelea D. Breastfeeding and obesity: impact on women and their children. In. Ovesen P, Moller Jenson D (ed): Maternal Obesity and Pregnancy. Pages 284-295. Springer-Verlag Berlin Heidelberg 2012

Non-Peer Reviewed Technical Reports

- 1. The impact of heart disease and stroke in Colorado. Colorado Department of Public Health and Environment. 2005. Available at: https://www.colorado.gov/pacific/sites/default/files/DC_Impact-of-Heart-Disease-and-Stroke-in-Colorado.pdf
- 2. The impact of oral disease on the health of Coloradans. Colorado Department of Public Health and Environment. 2005. Available at:

 https://www.colorado.gov/pacific/sites/default/files/PW_OH_Impact-of-Oral-Disease-Colorado-Burden-Doc.pdf
- 3. Colorado chronic disease indicators report. Colorado Department of Public Health and Environment (CDPHE). 2007
- 4. Baby and Me Tobacco Free: Evaluation of Colorado Programs, 2012-2015. Prepared for Health Statistics and Evaluation Branch and the State Tobacco Education & Prevention Partnership, Colorado Department of Public Health and Environment. 2015

Invited Papers/Reviews/Commentaries

- 1. Dabelea D, Crume TL, Maternal environment and the transgenerational cycle of obesity and diabetes. *Diabetes* 40: 1849-1855. 2011
- 2. **Crume TL**, Harrod C. Childhood obesity, is there effective treatment? *JAMA Peds.* 167:697-9. 2013.
- 3. Crume T. Tobacco use during pregnancy. Clin Obstet Gynecol. 62:128-141. 2019
- 4. **Crume TL**, Power S, Dufford A, Kim P. Cannabis and pregnancy: factors associated with cannabis use among pregnant women and the consequences for offspring neurodevelopment and early postpartum parenting behavior. Current Addiction Reports.9:195-202. Doi.10.1007/s40429-022-00419-6. 2022

Competitive Scientific Abstracts Presented at National or International Meetings (*presentations with a student or trainee):

1. **Crume TL**, Byers T, DiGuiseppi C. Underascertainment of child maltreatment fatalities by death certificates, 1990-1998. *International Congress on Child Abuse & Neglect*. 2002 (oral presentation)

- 2. **Crume TL**. A statewide assessment of perinatal group B streptococcal disease prevention practices among Colorado obstetrical providers. *International Congress on Emerging Infectious Diseases*. 2004 (oral presentation)
- 3. **Crume TL**, West N, Scherzinger A, Daniels S, Vehik K, Hamman R, Norris J, Ogden L, Dabelea D. Exposure to diabetes *in utero* and adiposity patterns in a multi-ethnic cohort of youth. *Diabetes*. 259-OR. 2009. (oral presentation)
- 4. West NA, Vehik K, Crume T, Maligie M, Bischoff K, McDuffie R, Dabelea D. Exposure to Diabetes in utero leads to increased adiposity and systolic blood pressure in children. *Diabetes*. 971-P. 2009. (oral presentation)
- 5. Crume TL, Lauer P, Elnicki J. Development of a strategic planning process to complement an existing national evaluation system. *American Evaluation Association*. 2008 (oral presentation)
- 6. **Crume T**, Duca LM, Ong T, Kraus EM, Scott K, Khanna A, Kao D, Rausch C. McKenzie L, Daley MF, Coleman S, Kahn MG, Davidson AJ. Implications of record linkage and deduplication on surveillance of congential heart defects among adolescents and adults in Colorado. Society of Epidemiologic Research. 2019. Minneapolis, MN. (poster)
- 7. **Crume TL**, Brinton JT, Harrod DS, Glueck DH, Martinez M, Friedman JE, Lynch A, Dabelea D. Maternal Lipids and Insulin Resistance Influence Neonatal Body Fat: The Healthy Start Study. *Diabetes* 1313-Pregnancy, 60 (suppl 1). 2011. (poster)
- 8. **Crume TL**, Andrews J, D'Agostino R Jr., Pettitt DJ, Mayer-Davis EJ, Law JR, Lolan L, Lawrence JM, Saydah S, Greenbaum C, Rodriquez BL, Dabelea D. Exposure to maternal diabetes and rate of beta cell decline in youth with type 2 diabetes: the SEARCH for diabetes in youth study. *International Society for Pediatric and Adolescent Diabetes* poster #968. 2011 (poster)
- 9. **Crume TL**, West N, Vehik K, Hamman R, Dabelea D. The impact of neonatal breastfeeding on growth trajectories of youth exposed and unexposed to diabetes in utero. *Developmental Origins of Health and Disease*. 2(Suppl S1). 2011. (oral presentation)
- 10. **Crume T**, Buti, A, Brinton JT, Glueck DH, Harrod CS, Martinez M, Friedman JE, Siega-Riz AM, Dabelea D. Maternal saturated fat intake during pregnancy. *Diabetes*. 2931-A. 2014. (poster)
- 11. Liese A D, Crandell J L, Tooze J A, Merchant A T, Bell R A, Couch S, Dabelea D, Crume T, Mayer-Davis E J. Application of measurement error methodology to the study of sugar-sweetened beverage intake and lipid levels in youth with type 1 diabetes: Findings from the SEARCH Nutrition Ancillary Study. *EDEG*, Potsdam, Germany, 2013. (poster)
- 12. Couch SA, Crandell JL, Peairs A, Liese AD, Shah AS, Dolan LM, Tooze J, Crume T, King I, Mayer-Davis EJ. Polyunsaturated fatty acids (PUFA) and cardiovascular risk factors in youth with type 1 diabetes: SEARCH Nutrition Ancillary Study. *Diabetes* 62(Suppl 1):A346. 2013 (poster)
- 13. Hamman RF, Crume TL, Isom S, Talton J, Divers J, Mayer-Davis EJ, Zhong VW, Liese AD, Saydah S, Staniford D, Lawrence JM, Pihoker C, Dabelea D. Factors influencing time to ascertainment of youth with type 1 and type 2 diabetes in the SEARCH for Diabetes in Youth study. *Diabetes*. 2013 (poster)
- 14. **Crume TL**, Hamman RF, Isom S, Talton J, Divers J, Mayer-Davis EJ, Liese AD, Saydah S, Standiford D, Lawrence JM, Dabelea D. The accuracy of provider diagnosed diabetes type in youth from the SEARCH study: implications for sustainable surveillance. *Diabetes*. 2013 (poster)

- 15. The NS, Lamichhane A, Shay C, Wang S, Dabelea D, Lawrence JM, Crandell J, Crume T, Mayer-Davis EJ. The association between breastfeeding and insulin sensitivity among youth with diabetes. Diabetes 64(Suppl 1) A420. 2015. (oral presentation)
- 16. **Crume TL**, Buti A, Kaar JL, Siega-Riz AM, Friedman JE, Dabelea D. Maternal saturated fat intake during pregnancy influences neonatal adiposity: the Healthy Start study. *Diabetes* 1438-P. 2015. (poster)
- 17. **Crume TL**, Lambert J, Jones M, Levinson A. Smoking relapse among women enrolled in a community based pre- and postnatal smoking cessation program: the Baby & Me Tobacco Free Program. *Society for Epidemiologic Research*. Denver, CO 2015 (oral presentation)
- 18. Couch, SC, Crandell JL, King I, Peairs A, Shah AS, Dolan LM, Tooze J, **Crume TL**, Mayers-Davis EJ. Associations between long-chain polyunsaturated fatty acids and cardiovascular disease risk factors in youth with type 1 diabetes: SEARCH Nutrition Ancillary Study. Experimental Biology, San Diego CA, 2016. (oral presentation)
- 19. **Crume TL**, Crandell JL, Tooze J, Lamichane A, Dabelea D, Dolan L, Liese AD, Pihoker C, Lawrence J, Mayer-Davis EJ. Breastfeeding as a potential factor related to preservation of insulin secretion function in youth with recently diagnosed type 2 diabetes: the SEARCH Nutrition Ancillary Study. *Experimental Biology*. 2016 (oral presentation)
- 20. Khanna A, *Duca L, Kao D, Kay J, Crume TL. Non-cardiac surgery in adults with congenital heart disease. International Symposium on Adult Congenital Heart Disease. 2016, Stevenson WA (poster)
- 21. *Polinski K, Adams L, Fenton-Free L, Crume TL. Smoking cessation activity among new moms in a community-based program: A current snapshot and next steps of the Baby and Me Tobacco Free Program. APHA. 2016, Denver CO (poster)
- 22. *Duca LM, Kao D, Khanna A, Crume TL. Increased risk of ischemic stroke in adolescents and adults with congenital heart defects. American Heart Association Epidemiology and Lifestyle. Circulation 2017; 135:AP256. Portland, OR. (poster)
- 23. *Duca LM, Khanna, A, Kao D, Crume TL. Long-term outcomes in adolescents and adults with congenital heart disease: population-based surveillance. Society for Epidemiologic Research. CCS Cardiovascular Disease session 2017. Seattle, WA. (oral presentation)
- 24. Crume TL, Wolfe R*, Polinski K*, Fenton-Free L, Adams L. Cost analysis of statewide implementation of an incentive-based prenatal smoking cessation program targeted at low-income women. CityMatCH MCH Conference (#0994-000388) 2018 Portland, OR. (oral).
- 25. Crume TL, Duca L*, Rausch C, Khanna A. Pregnancy outcomes in women with congenital heart defects in Colorado: results from the Colorado CHD surveillance system. American Heart Association Epidemiology and Lifestyle. Circulation 2018 New Orleans, LA. (poster)
- 26. Khanna AD*, Duca LM*, Kay J, Shore J, Kelly S, **Crume TL**. Prevalence of mental illness in adolescents and adults with congenital heart disease: results from the Colorado Congenital Heart Disease (COCHD) surveillance system. International Symposium on Adult Congenital Heart Disease. 2018 Toronto, CA. (oral)
- 27. Duca LM*, Khanna AD*, Rausch C, Kao D, Crume TL. Capture-recapture using multiple data sources: estimating the prevalence of congenital heart disease. American Heart Association Epidemiology and Lifestyle. Circulation 2018 New Orleans, LA (oral).

- 28. Duca LM*, Ong T, Khanna AD*, Kao D, Crume TL. Use of record linkage to improve completeness of population-based surveillance data. Society for Epidemiologic Research. 2018 Baltimore, MD (poster)
- 29. Duca LM*, Khanna A, Kao D, Rausch CM, McKenzie L, Crume TL. Bias from incomplete case ascertainment in studies examining the transition from pediatric to adult-centered cardiac care in young adults with congenital heart disease. Society of Epidemiologic Research. 2019. Minneapolis, MN. (oral)
- 30. Brou L*, Duca LM, McKenzie L, Rausch C, Khanna A, Kao D, Crume TL. Chronic pain in adolescents and adults with congenital heart disease. American Heart Association Epidemiology and Lifestyle. Circulation 2019 Houston, TX (poster presentation).
- 31. Crume TL, Adams L. Impact of an incentive-based prenatal smoking cessation program for low-income women in Colorado. National Association of City and County Health Officials (NACCHO). Virtual. July 9, 2020. (oral).
- 32. **Crume TL**, Kim P, Iisa E, et al. Prenatal cannabis use and the association with neonatal brain global and subclinical morphology. City Match Association of Maternal Child Health. 2022 Chicago, IL (poster)