COMMITTEE FOR THE PROTECTION OF HUMAN SUBJECTS (CPHS)
CALIFORNIA HEALTH AND HUMAN SERVICES AGENCY (CHHS)

Members
Juan Ruiz, MD, DrPH, Chair
Larry Dickey, MD, MPH, Vice Chair
Alicia Bazzano, MD, PhD
Darci Delgado, PsyD, MS
Maria Dinis, PhD, MSW
Lois Lowe, PhD, MA
Laura Lund, MA
Fred Molitor, PhD
Philip Palacio, EdD, MS
John Schaeuble, PhD, MS

Location:
2020 West El Camino Avenue
Cal Mortgage Board Room 1235
Sacramento, CA 95833

Phone:
US Toll-Free Number: (888) 636-3807
Access Code: 963949

Date:
Friday, February 1, 2019
8:30 a.m.–4:00 p.m.

AGENDA

<table>
<thead>
<tr>
<th>Item</th>
<th>Subject</th>
<th>Presenter</th>
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| A    | Welcome
  1. Introductions
  2. Chair Updates | Juan Ruiz, MD, DrPH, Chair |
| B    | CHHS Office of Innovation Report – Status update regarding CHHS data application standardization project | Darci Delgado, Member |
| C    | CPHS Policies and Procedures
  1. Re-visit December 7, 2018 Revision of CPHS policy on Annual Continuing Reviews; updated proposal to be presented – Action
  2. CPHS Policy on activities that are "Not Research": public health surveillance – Discussion | John Schaeuble, Member
Laura Lund, Member |
| D    | Review and approval of Meeting Minutes
  1. February 2, 2018 – Action
  2. February 23, 2018 – Action
  3. December 7, 2018 – Action | Lucila Martinez, Administrator |
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<tr>
<th>Item</th>
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| E    | Projects with Reported Adverse Events and/or Deviations  
Determine if action on projects is needed. See attachment for list of projects. – **Action**  | Juan Ruiz, MD, DrPH, Chair         |
| F    | New Projects – Full Committee Review Required  
See attachment for list of projects. – **Action**  | All Members                        |
| G    | Second Review Calendar  
Full committee review needed on previously tabled projects. See attachment for list of projects. – **Action**  | Juan Ruiz, MD, DrPH, Chair         |
| H    | New Projects – Expedited Review Requested  
Some projects listed may require full committee review and others are recommended for approval by expedited review. Project approvals may be ratified by the committee. See attachment for list of projects. – **Action**  | Juan Ruiz, MD, DrPH, Chair         |
| I    | Projects Requiring Periodic Review Only (Including Greater than Minimal Risk)  
Some projects listed may require full committee review and others are recommended for approval by expedited review. Project approvals may be ratified by the committee. See attachment for list of projects. – **Action**  | Juan Ruiz, MD, DrPH, Chair         |
| J    | Projects with Major Revisions Requiring Periodic Review  
Some projects listed may require full committee review and others are recommended for approval by expedited review. Project approvals may be ratified by the committee. See attachment for list of projects. – **Action**  | Juan Ruiz, MD, DrPH, Chair         |
| K    | Projects with Request for CPHS to Rely on Another IRB  
See attachment for list of projects. – **Action**  | Juan Ruiz, MD, DrPH, Chair         |
| L    | Exemption/Determination Requests  
Some projects listed may require full committee review and others are recommended for approval by expedited review. Project approvals may be ratified by the committee. See attachment for list of projects. – **Action**  | Juan Ruiz, MD, DrPH, Chair         |
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<th>Item</th>
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<tbody>
<tr>
<td>M</td>
<td><strong>Final Reports</strong></td>
<td>Juan Ruiz, MD, DrPH, Chair</td>
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<tr>
<td></td>
<td>Projects listed are submitted for closure and are recommended for approval by expedited review. See attachment for list of projects. – <strong>Action</strong></td>
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<td>N</td>
<td><strong>Public Comments</strong></td>
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<td>O</td>
<td><strong>Next Meeting</strong></td>
<td>Juan Ruiz, MD, DrPH, Chair</td>
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<td></td>
<td>The next CPHS meeting is scheduled for Friday, April 5, 2019, at 2020 West El Camino Avenue, Sacramento, CA 95833.</td>
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<td>P</td>
<td><strong>Adjournment</strong></td>
<td>Juan Ruiz, MD, DrPH, Chair</td>
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**NOTE:** Action may be taken on any items listed in this agenda. To request any background materials prior to the meeting, please contact the Administrator. Pursuant to the Americans with Disabilities Act, the meeting is accessible to people with mobility impairments. If you need a reasonable accommodation request to attend or participate in this event, please contact the CPHS Administrator at least five (5) business days prior to the meeting, using the CPHS contact information below. CPHS will ensure that it makes every effort to fulfill the request. CPHS encourages public attendance and participation at its meetings. If you have any questions or comments, you may contact the CPHS Administrator at (916) 326-3660 or by email: cphs-mail@oshpd.ca.gov.
E. Projects with Reported Adverse Events and/or Deviations

1. Project # 16-12-2801 (Schaeuble) – 10 Reports
   Title: California Child Care Snapshot
   PI: Carlise King, MA
   Co-PI: Weilin Li, PhD
         Child Trends
         Bethesda, MD

2. Project # 13-10-1398 (Ruiz) – 2 Reports
   Title: Birth Defects Study to Evaluate Pregnancy Exposures – California Component
   PI: Gary Shaw, DrPH
   Co-PI: Suzan Carmichael, PhD
         Stanford University
         Stanford, CA

F. New Projects – Full Committee Review Required

1. Project # 2019-047 (Molitor)
   Title: Establishment of Group B Streptococcal Immunologic Endpoints Reasonably Like to Predict Clinical Benefit Against Invasive Disease Among Young Infants: A Multi-State Case-Control Study
   PI: Mirasol Apostol, MPH
       California Emerging Infections Program
       Oakland, CA

2. Project # 2019-044 (Lund)
   Title: Supporting Women, Infants, and Children Mothers in Infant Feeding
   PI: Shannon Whaley, PhD
       Public Health Foundation Enterprise Women, Infants, and Children
       Irwindale, CA

3. Project # 2019-032 (Lowe)
   Title: Southern California Child Development Survey (SoCal CDS)
   PI: Grace Baranek, PhD
       University of Southern California
       Los Angeles, CA
4. Project # 2019-005 (Dinis)
   Title: REACT Study: A Feasibility Study to Develop and Test the Integration of the Cancer Registry Early Case Ascertainment (REACT) Process Via E-Path with an Online Clinical Trial Matching Tool
   PI: Scarlett L Gomez, PhD
       Cancer Prevention Institute of California
       Fremont, CA

5. Project # 2019-004 (Dickey)
   Title: Determinants of Genetic Penetrance from the Study of Twins with Breast Cancer
   PI: Thomas Mack, MD, MPH
       University of Southern California
       Los Angeles, CA

6. Project # 2019-002 (TBD)
   Title: Promoting Take-Up of the Earned Income Tax Credit: California Department of Social Services Outreach
   PI: Jesse Rothstein, PhD
       University of California, Berkeley
       Berkeley, CA

7. Project # 2019-012 (TBD)
   Title: Promoting Take-Up of Earned Income Tax Credit
   PI: Jesse Rothstein, PhD
       University of California, Berkeley
       Berkeley, CA

8. Project # 2019-001 (Palacio)
   Title: Collection of Light-Duty Activity Data
   PI: Chris Ruehl, BS, MS, PhD
       California Air Resources Board
       Sacramento, CA

9. Project # 2019-022 (Bazzano)
   Title: A Pilot-Feasibility of a Home-Based Intervention to Reduce Obesity Risk for Bottle-Fed Infants
   PI: Alison Ventura, PhD, CLEC
       California Polytechnic State University
       San Luis Obispo, CA
10. Project # 2019-031 (Schaeuble)
   Title: Medi-Cal 2020 Waiver Evaluation of Dental Transformation Initiative
   PI: Sean Orzol, PhD
   Mathematica
   Ann Arbor, MI

G. Second Review Calendar

1. Project # 13-02-1114 (Ruiz)
   Title: Mother and Infant Home Visiting Program Evaluation (MIHOPE)
   PI: Virginia Knox, PhD
       Manpower Demonstration Research Corporation
       New York, NY
   Co-PI: Charles Michalopoulos, PhD
       Manpower Demonstration Research Corporation
       Oakland, CA

2. Project # 2018-261 (Delgado)
   Title: Child Support Debt Relief Pilot
   PI: Heather Hahn, PhD
       Urban Institute
       Washington, D.C.

H. New Projects – Expedited Review Requested

1. Project # 2018-153 (Palacio)
   Title: Research on Prostate Cancer in African American Men: Defining the Roles of Genetics, Tumor Markers and Social Stress (RESPOND) Core B
   PI: Ann Hamilton, PhD
       University of Southern California
       Los Angeles, CA
   Co-PI: Christopher Haiman, ScD
       University of Southern California
       Los Angeles, CA
       Rosemary Cress, DrPH
       Cancer Registry of Greater California
       Sacramento, CA
       Scarlett L Gomez, PhD
       Cancer Prevention Institute of California
       Fremont, CA
2. Project # 2018-278 (Bazzano)
Title: Impact of Drought-Related Air Quality on Childhood and Adolescent Asthma in Imperial Valley, California
PI: Aubrey Doede, MSN RN
University of Virginia
Charlottesville, VA

3. Project # 2018-275 (Martinez)
Title: Networks and Competition in Health Care Markets
PI: Carolyn McNamara, PhD Economics
University of Wisconsin – Madison
Madison, WI

4. Project # 2017-058 (Schaeuble)
Title: Longitudinal Outcomes Study on the Effect of Perinatal Care on the Development of Pediatric Chronic Disease
PI: Cassandra Kelleher, MD
Massachusetts General Hospital
Boston, MA
Co-PI: Maggie Westfal, MD MPH
Partners Healthcare
Boston, MA

5. Project # 2019-025 (Delgado)
Title: San Diego Study of Outcomes in Mother and Infants (SOMI)
PI: Christina Chambers, PhD, MPH
University of California, San Diego
La Jolla, CA
Co-PI: Gretchen Bandoli, PhD MPH MBA
University of California, San Diego
La Jolla, CA
Laura Jelliffe, PhD
University of California, San Francisco
San Francisco, CA

6. Project # 2019-026 (Bazzano)
Title: Predictors of Preterm Birth and Low Birth Weight among Women in Los Angeles County: An Analysis of the Los Angeles Mommy and Baby Project
PI: Dena Herman, PhD, MPH, RD
Co-PI: Miranda Westfall, MPH, RD
University of California, Los Angeles
Los Angeles, CA
<table>
<thead>
<tr>
<th>Project #</th>
<th>Title</th>
<th>PI/Co-PI</th>
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<tbody>
<tr>
<td>2019-007</td>
<td>Why She Did Not Just Leave: The Effect of Nuisance Property Ordinances on Domestic Violence</td>
<td>Gauri Shastry, PhD / Emily Moss, Wellesley College Norfolk County, MA</td>
</tr>
<tr>
<td>2019-023</td>
<td>Hospital Investment in Urgent Care: Impacts on Emergent, Outpatient, and Ambulatory Surgery Volumes</td>
<td>Hillary Linhart, BBA, MBA, Virginia Commonwealth University Health Richmond, VA</td>
</tr>
<tr>
<td>2019-021</td>
<td>Five-Year Impact of a Commercial Accountable Care Organization on Health Care Spending, Utilization and Quality of Care</td>
<td>Hui Zhang, PhD / California Public Employees Retirement System (CalPERS) Sacramento, CA</td>
</tr>
<tr>
<td>2018-110</td>
<td>Preconception Health and Birth Outcomes: A National Longitudinal Study of Adolescent to Adult Health (Add Health)</td>
<td>Jon Hussey, PhD, MPH, University of North Carolina Chapel Hill, NC / Jennifer Buher Kane, PhD, University of California, Irvine Irvine, CA</td>
</tr>
<tr>
<td>2018-225</td>
<td>PA17-0785: Fertility and Obstetrical Outcomes Among Young Women with Cancer</td>
<td>Jose Alejandro Rauh-Hain, MD, MPH, M. D. Anderson Cancer Center Houston, TX</td>
</tr>
</tbody>
</table>

8. Project # 2019-023 (Lund)
Title: Hospital Investment in Urgent Care: Impacts on Emergent, Outpatient, and Ambulatory Surgery Volumes
PI: Hillary Linhart, BBA, MBA
Virginia Commonwealth University Health Richmond, VA

9. Project # 2019-021 (Ruiz)
Title: Five-Year Impact of a Commercial Accountable Care Organization on Health Care Spending, Utilization and Quality of Care
PI: Hui Zhang, PhD
California Public Employees Retirement System (CalPERS)
Sacramento, CA

10. Project # 2018-110 (Schaeuble)
Title: Preconception Health and Birth Outcomes: A National Longitudinal Study of Adolescent to Adult Health (Add Health)
PI: Jon Hussey, PhD, MPH
University of North Carolina Chapel Hill, NC
Co-PI: Jennifer Buher Kane, PhD
University of California, Irvine Irvine, CA

11. Project # 2018-225 (Lund)
Title: PA17-0785: Fertility and Obstetrical Outcomes Among Young Women with Cancer
PI: Jose Alejandro Rauh-Hain, MD, MPH
M. D. Anderson Cancer Center Houston, TX
12. Project # 2019-006 (Lowe)
Title: The Effect of Air Pollution from Ports in California on Human Health
PI: Kenneth Gillingham, PhD
Co-PI: Pei Huang, PhD
Yale University
New Haven, CT

13. Project # 2019-024 (Lund)
Title: Examination of Social, Geographic, and Policy Determinants of Preterm Birth in California
PI: Laura Jelliffe, PhD
Co-PI: Deborah Karasek, PhD, MPH
University of California, San Francisco
San Francisco, CA

14. Project # 2019-028 (Dinis)
Title: Evaluation of the Supportive Services Demonstration
PI: Leah Lozier, PhD
United States Department of Housing and Urban Development
Co-PI: Sara Galantowicz, MPH
Abt Associates
Boston, MA

15. Project # 2019-027 (Lund)
Title: Extreme Heat Events and Pregnancy Outcomes
PI: Lyndsey Darrow
University of Nevada, Reno
Reno, NV

16. Project # 2018-272 (Lowe)
Title: San Diego Homelessness Program Evaluation Project
PI: Mark Duggan, PhD
Stanford University
Stanford, CA

17. Project # 2019-029 (Ruiz)
Title: Evaluation of the Health Homes Program (HHP)
PI: Nadereh Pourat, PhD
University of California, Los Angeles
Los Angeles, CA
<table>
<thead>
<tr>
<th>Project #</th>
<th>Title</th>
<th>PI</th>
<th>Co-PI</th>
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<tbody>
<tr>
<td>18. 2018-264 (Dinis)</td>
<td>Implementing the Next Generation Science Standards: Science Course Offering, Access, and Completion</td>
<td>Niu Gao, PhD</td>
<td>Hans Johnson, PhD Public Policy Institute of California Sacramento, CA</td>
</tr>
<tr>
<td>19. 2018-274 (Lowe)</td>
<td>Mapping University of California-Trained Educators Across California</td>
<td>Pamela Brown, MPP</td>
<td>University of California, Office of the President Oakland, CA</td>
</tr>
<tr>
<td>20. 2019-020 (Palacio)</td>
<td>Understanding the Impact of the ACA Medicaid Expansion on Emergency Department Utilization for Primary Care Treatable Conditions</td>
<td>Peter Veazie, PhD</td>
<td>Alina Denham, MS University of Rochester Medical Center Rochester, NY</td>
</tr>
<tr>
<td>22. 2018-065 (Trent)</td>
<td>Time-Trends in Fetal Death and Neonatal Mortality in California</td>
<td>Tim Bruckner, PhD</td>
<td>University of California, Irvine Irvine, CA</td>
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<tr>
<td>23. 2019-051 (Ruiz)</td>
<td>Baseline Assessment of Cancer Health Disparities in Underserved Populations in California</td>
<td>Robert Bristow, MD, MBA</td>
<td>Kiran Clair, MD University of California, Irvine Irvine, CA</td>
</tr>
</tbody>
</table>
24. **Project #** 2019-045 (Ruiz)  
**Title:** The Heterogeneity of the Tumor Microenvironment and its Impact on Multiple Myeloma Survival  
*Official Title: Administrative Supplements to Existing National Institutes of Health Grants and Cooperative Agreements (Parent Admin Supp – Clinical Trial Optional)*  
**PI:** Wendy Cozen, DO, MPH  
University of Southern California  
Los Angeles, CA

I. **Projects Requiring Periodic Review Only (Including Greater than Minimal Risk)**

1. **Project #** 13-04-1191 (Ruiz)  
**Title:** Obstetric Management and Outcomes in California 2005–2012  
**PI:** Aaron Caughey, MD, PhD  
**Co-PI:** Blair Darney, PhD, MPH  
Oregon Health and Science University  
Portland, OR

2. **Project #** 2018-006 (Ruiz)  
**Title:** Prenatal Tobacco Smoke Exposure and Somatic Alterations in Childhood ALL  
**PI:** Adam de Smith, PhD  
University of Southern California  
Los Angeles, CA  
**Co-PI:** Catherine Metayer, MD, PhD  
University of California, Berkeley  
Berkeley, CA  
Joseph Wiemels, PhD  
University of San Francisco  
San Francisco, CA

3. **Project #** 15-10-2248 (Lowe)  
**Title:** Assessing the Incidence of Osteosarcoma Among Teriparatide Users Using Medicare Part D and State Cancer Registry Data  
**PI:** Alicia Gilsenan, PhD  
**Co-PI:** Elizabeth Andrews, PhD, MPH  
Research Triangle International  
Research Triangle Park, NC
4. Project # 2018-033 (Dickey)
Title: Late Effects in Multiethnic Population-Based Cohort of Childhood Cancer Survivors
PI: Amie Hwang, PhD
Co-PI: Dennis Deapen, DrPH
University of Southern California
Los Angeles, CA

5. Project # 16-12-2811 (Schaeuble)
Title: Environmental and Socioeconomic Factors Associated with West Nile Virus in the Northern San Joaquin Valley
PI: Andrea Joyce, PhD
University of California, Merced
Merced, CA

6. Project # 12-07-0565 (Dickey)
Title: Disparity in the Quality of Breast Cancer Treatment and Effect on Outcomes – Los Angeles Subcontract
PI: Ann Hamilton, PhD
University of Southern California
Los Angeles, CA

7. Project # 12-06-0426 (Dickey)
Title: Comparative Effectiveness of Treatments for Localized Prostate Cancer (CEASAR Study) – Los Angeles Subcontract
PI: Ann Hamilton, PhD
University of Southern California
Los Angeles, CA

8. Project # 16-10-2765 (Dickey)
Title: Surveillance, Epidemiology, and End Results (SEER) Registry Feasibility Study
PI: Ann Hamilton, PhD
University of Southern California
Los Angeles, CA

9. Project # 17-04-2950 (Dickey)
Title: Exploring Factors Related to Racial Disparities in Ovarian Cancer Incidence and Survival: The Ovarian Cancer in Women of African Ancestry Consortium
PI: Anna Wu, PhD
University of Southern California
Los Angeles, CA
10. Project # 12-10-0873 (Dinis)  
   Title: Learning to Listen Ahead in English and Spanish  
   PI: Anne Fernald, PhD  
   Stanford University  
   Stanford, CA

11. Project # 12-12-1013 (Schaeuble)  
   Title: Applied Statistics for Pattern and Fraud Detection in Health Care Data  
   PI: Artur Dubrawski, PhD  
   Carnegie Mellon University  
   Pittsburgh, PA

12. Project # 12-11-0893 (Dickey)  
   Title: Pilot Study of Trends and Risks in Gestational Diabetes  
   PI: Assiamira Ferrara, MD, PhD  
   Kaiser Permanente  
   Oakland, CA

13. Project # 16-09-2718 (Delgado)  
   Title: Grandparental Exposures and Risk of Autism in the Third Generation  
   PI: Barbara Cohn, PhD  
   Co-PI: Gayle Windham, PhD  
   University of California, Berkeley  
   Berkeley, CA

14. Project # 2017-085 (Delgado)  
   Title: Getting a Grip on Guiding Rage into Power (GRIP): Perceptions of Effects on Socio-Emotional Development and Behavioral Patterns in Two California State Prisons  
   PI: Bowen Paulle, PhD  
   University of Amsterdam  
   Amsterdam, Netherlands

15. Project # 16-12-2801 (Schaeuble)  
   Title: California Child Care Snapshot  
   PI: Carlise King, MA  
   Co-PI: Weilin Li, PhD  
   Child Trends  
   Bethesda, MD
16. Project # 12-12-0953 (Schaeuble)  
Title: Parkinson's Registry Investigation of Diagnosis and Etiology (PRIDE) Study  
PI: Caroline Tanner, MD, PhD  
Co-PI: Samuel Goldman, MD, MPH  
University of California, San Francisco  
San Francisco, CA

17. Project # 15-01-1853 (Ruiz)  
Title: Evaluation of Cal MediConnect  
PI: Carrie Graham, PhD  
Co-PI: H. Stephen Kaye, PhD  
University of California, Santa Barbara  
Santa Barbara, CA

18. Project # 2018-005 (Dickey)  
Title: Support for Infrastructure of Childhood Leukemia Environmental Research  
PI: Catherine Metayer, MD, PhD  
Co-PI: Todd Whitehead, PhD  
University of California, Berkeley  
Berkeley, CA

19. Project # 13-01-1048 (Schaeuble)  
Title: Research in Language and Cognitive Development  
PI: Catherine Sandhofer, PhD  
University of California, Los Angeles  
Los Angeles, CA

20. Project # 13-12-1428 (Ruiz)  
Title: Chronic Disease in California, 2007–2016  
PI: Catrina Taylor, PhD  
Co-PI: Brendan Darsie, MPH  
California Department of Public Health  
Sacramento, CA
21. Project # 14-04-1565 (Delgado)
Title: Mother and Infant Home Visiting Program Evaluation – Strong Start (MIHOPE – Strong Start)
PI: Charles Michalopoulos, PhD
Manpower Demonstration Research Corporation
Oakland, CA
Co-PI: Virginia Knox, PhD
Manpower Demonstration Research Corporation
New York, NY

22. Project # 12-11-0910 (Dinis)
Title: Comparative Effectiveness of Integration of Care Programs at Improving Metabolic Screening and Treatment of People with Severe Mental Illness
PI: Christina Mangurian, MD
University of California, San Francisco
San Francisco, CA

23. Project # 14-05-1581 (Molitor)
Title: Quality of Care for Patients with Kidney and Ureteral Stones in California
PI: Christopher Elliott, MD, PhD
Stanford University
Stanford, CA

24. Project # 16-01-2380 (Dickey)
Title: Environmental Conditions, Infectious Disease and Public Health
PI: Corey White
California Polytechnic State University
San Luis Obispo, CA
Co-PI: Olivier Deschenes, PhD
University of California, Santa Barbara
Santa Barbara, CA

25. Project # 12-11-0905 (Ruiz)
Title: Surveillance of Air Pollution and Related Cardiopulmonary Morbidity in California, 2000–2020
PI: Cynthia Garcia, BA
Co-PI: Hye-Youn Park, PhD in Epidemiology
Air Resources Board
Sacramento, CA
26. Project # 2018-047 (Dickey)
   Title: Evaluation of the Hub and Spoke: Statewide Medication Assisted Treatment Expansion Program
   PI: Darren Urada, PhD
   University of California, Los Angeles
   Los Angeles, CA

27. Project # 12-12-0969 (Dinis)
   Title: Psychometric Evaluation of Assessment Measures Used in the Substance Abuse and Mental Illness (SAMI) Program at Patton State Hospital
   PI: David Glassmire, PhD
   California Department of State Hospitals
   Patton, CA

28. Project # 12-07-0512 (Schaeuble)
   Title: Validation of Embedded Malingering Indices in the Wechsler Adult Intelligence Scale-Fourth Edition (WAIS-IV) in a Forensic Psychiatric Inpatient Population
   PI: David Glassmire, PhD
   California Department of State Hospitals
   Patton, CA

29. Project # 12-12-0986 (Lowe)
   Title: The Utility of the Structured Interview of Reported Symptoms (SIRS) and Miller-Forensic Assessment of Symptoms Test (MFAST) in a Forensic Inpatient Setting
   PI: David Glassmire, PhD
   California Department of State Hospitals
   Patton, CA

30. Project # 12-07-0506 (Lund)
    Title: The Impact of Physician Supply, Socioeconomic Status, and Insurance on Preventable Hospitalizations and Emergency Department Visits
    PI: David Zingmond, MD, PhD
    Co-PI: Roberto Vargas, MD
    University of California, Los Angeles
    Los Angeles, CA

31. Project # 14-11-1779 (Lowe)
    Title: Effect of Hospital Workload on Hospital Treatment and Outcome
    PI: Deepa Wani, PhD
    University of Texas at San Antonio
    San Antonio, CA
32. Project # 2018-007 (Schaeuble)
   Title: Investigating the Role of Age Groups During Pertussis Outbreaks in California
   PI: Edward Goldstein, PhD
        Harvard University
        Boston, MA

33. Project # 2018-080 (Ruiz)
   Title: California Health and Human Services Record Reconciliation
   PI: Emily Putnam-Hornstein, PhD
        University of Southern California
        Los Angeles, CA

34. Project # 2017-084 (Ruiz)
   Title: Examining Choking Risks Within State Hospital Patients
   PI: Erin Dengate
        California Department of State Hospitals
        Atascadero, CA

35. Project # 12-12-0950 (Schaeuble)
   Title: Lessons in Epidemiology and Genetics of Adult Cancer from Youth (LEGACY): A Cohort of Youth in Families from the Breast Cancer Family Registry
   PI: Esther John, PhD
        Cancer Prevention Institute of California
        Fremont, CA

36. Project # 16-04-2493 (Lund)
   Title: Cancer Incidence Study of Marines/Navy Personnel and Civilian Employees Exposed to Contaminated Drinking Water at United States Marine Corps Base Camp Lejeune
   PI: Frank Bove, ScD, MS
        Centers for Disease Control and Prevention
        Atlanta, GA

37. Project # 13-10-1398 (Ruiz)
   Title: Birth Defects Study to Evaluate Pregnancy Exposures – California Component
   PI: Gary Shaw, DrPH
   Co-PI: Suzan Carmichael, PhD
        Stanford University
        Stanford, CA
38. Project # 12-11-0906 (Lund)
   Title: Using Population-Based Datasets to Generate and Test New Hypotheses for Investigating Preterm Births and Related Adverse Conditions in California
   PI: Gary Shaw, DrPH
   Co-PI: Paul Wise, MD, MPH
         Stanford University
         Stanford, CA

39. Project # 12-11-0924 (Dickey)
   Title: Candidate Genes and Congenital Malformations of Neural Crest Cell Origin
   PI: Gary Shaw, DrPH
   Co-PI: Suzan Carmichael, PhD
         Stanford University
         Stanford, CA

40. Project # 12-05-0219 (Lowe)
   Title: Multigenerational Familial and Environmental Risk for Autism (MINERvA) Network – California Population
   PI: Gayle Windham, PhD
   Co-PI: Martin Kharrazi, PhD
         California Department of Public Health
         Richmond, CA

41. Project # 2018-046 (Ruiz)
   Title: Hospital Markets in California
   PI: Glenn Melnick, PhD
      Research And Development Corporation
      Los Angeles, CA

42. Project # 12-11-0896 (Dinis)
   Title: Air Pollution and Autism in Southern California
   PI: Heather Volk, PhD
      Johns Hopkins University
      Baltimore, MD
   Co-PI: Rob McConnell, MD
          University of Southern California
          Los Angeles, CA
43. Project # 16-11-2778 (Ruiz)
   Title: Transition of Care for Patients with Complex Congenital Urological Conditions
   PI: Hillary Copp, MD
   University of California, San Francisco
   San Francisco, CA

44. Project # 12-11-0911 (Bazzano)
   Title: Markers of Autism Risk in Babies – Learning Early Signs (MARBLES)
   PI: Irva Hertz-Picciotto, PhD
   University of California, Davis
   Davis, CA

45. Project # 12-11-0900 (Dickey)
   Title: Childhood Autism Risks from Genetics and the Environment (the CHARGE Study)
   PI: Irva Hertz-Picciotto, PhD
   University of California, Davis
   Davis, CA

46. Project # 13-02-1083 (Lowe)
   Title: California Physicians’ Use of Health Information Technology
   PI: Janet Coffman, PhD
   University of California, San Francisco
   San Francisco, CA

47. Project # 2018-093 (Palacio)
   Title: Comparative Analysis of Police Force Effects on Birth Outcomes in the United States
   PI: Javier Rodriguez, PhD
   Co-PI: Carlos Alberto Echeverria-Estrada, Master's in Public Policy
   Claremont Graduate University
   Claremont, CA

48. Project # 16-11-2798 (Ruiz)
   Title: Assessing the Value of Aggressive Treatment of Low-Risk Prostate Cancer
   PI: Jean Mitchell, PhD
   Georgetown University
   Washington, D.C.
<table>
<thead>
<tr>
<th>Project #</th>
<th>Title</th>
<th>PI</th>
<th>Co-PI</th>
</tr>
</thead>
</table>
| 49. 16-12-2813 (Ruiz) | Population-Based Assessment of Treatment Patterns and Outcomes among Women with Newly Diagnosed Ductal Carcinoma in Situ | Jean Mitchell, PhD                       | Arnold Potosky, PhD
Georgetown University
Washington, D.C. |
| 50. 2018-010 (Palacio) | Pursuing Health Equity through Restorative Practices in K–12 Schools | Jelena Todic, MSW, PhD Candidate         | University of Texas
Austin, TX |
| 51. 2018-034 (Ruiz) | Reducing Isolation through Support and Empowerment (RISE)           | Marci Eads, PhD
Health Management Associates
Sacramento, CA |
|            |                                                                      | Rafael Colonna, PhD                     | California Department of Public Health
Sacramento, CA |
| 52. 14-12-1810 (Lowe) | Toddlers in Play Study                                             | Jessica Grady, PhD                      | University of the Pacific
Stockton, CA |
| 53. 2018-004 (Palacio) | Evaluation of the Fathers Advancing Communities Together (FACT) Program | Jocelyn Fontaine, PhD                  | Urban Institute
Washington, D.C. |
California Department of State Hospitals
Sacramento, CA |
55. Project # 2017-143 (Ruiz)
Title: The Impact of Enterprise Health Information Exchange on Organizational Performance and Local Health Care Markets
PI: Joshua Vest, PhD, MPH
Indiana University
Bloomington, IN

56. Project # 2018-012 (Lund)
Title: Immune Infiltrates in Breast Tumor Microenvironment, Health Disparity and Triple Negative Breast Cancer Survival in a Multi-Ethnic Population
PI: Jun Wang, PhD
University of Southern California
Los Angeles, CA

57. Project # 12-10-0868 (Ruiz)
Title: Survey of Body Burdens in California Communities
PI: June-Soo Park, PhD
Co-PI: Kim Hooper, PhD
Department of Toxic Substance Control
Oakland, CA

58. Project # 12-12-0997 (Molitor)
Title: FoodNet Study of Escherichia Coli O157:H7 Infection: Antibiotic Exposure and the Risk of Hemolytic Uremic Syndrome
PI: Katie Wymore, MPH
California Emerging Infections Program
Oakland, CA

59. Project # 17-01-2849 (Ruiz)
Title: Congregate Care Reform Analysis
PI: Kevin O'Connell, MA
Chief Probation Officers of California
Sacramento, CA

60. Project # 2018-031 (Palacio)
Title: Program Evaluation of Human Immunodeficiency Virus Screening and Linkage to Care in California Correctional Health Care Services
PI: Kimberley Lucas, MPH
California Department of Corrections and Rehabilitation
Sacramento, CA
61. Project # 12-09-0702 (Dinis)
Title: Predicting Adverse Pregnancy Outcomes
PI: Laura Jelliffe, PhD
University of California, San Francisco
San Francisco, CA
Co-PI: Kelli Ryckman,
University of Iowa College of Public Health
Iowa City, IA

62. Project # 14-12-1829 (Ruiz)
Title: Champions for Change Media Campaign Evaluation
PI: Lauren Whetstone, PhD
California Department of Public Health
Sacramento, CA

63. Project # 12-12-0956 (Dickey)
Title: Replication of Draper Study of Leukemia, Brain Tumors and Distance to Power Lines in California
PI: Leeka Kheifets, PhD
University of California, Los Angeles
Los Angeles, CA

64. Project # 12-11-0941 (Ruiz)
Title: Development of the Brain Basis of Cognitive and Social Behavior in Human Infants
PI: Leslie Carver, PhD
University of California, San Diego
La Jolla, CA

65. Project # 15-12-2350 (Palacio)
Title: Outcomes of Nurse Practice Environments
PI: Linda Aiken, RN, PhD
University of Pennsylvania
Philadelphia, PA

66. Project # 12-12-0958 (Palacio)
Title: A Diverse Autism Registry for Effectiveness Studies
PI: Lisa Croen, PhD
Kaiser Permanente
Oakland, CA
67. Project # 15-09-2245 (Dickey)
Title: Making the Most of Women, Infants, and Children Foods: A Pilot Study to Examine Purchasing Decisions of Women, Infants, and Children Participants
PI: Loan Kim, PhD, RD
Pepperdine University
Malibu, CA
Co-PI: Shannon Whaley, PhD
Public Health Foundation Enterprise Women, Infants, and Children
Irwindale, CA

68. Project # 13-12-1462 (Dickey)
Title: Racial/Ethnic and Gender Differences in Early Stage Non-Small Cell Lung Cancer
PI: Lori Sakoda, MPH, PhD
Kaiser Permanente
Oakland, CA

69. Project # 17-06-3027 (Delgado)
Title: School Food and Activity Culture and Its Association with Health and Learning
PI: Lorrence Ritchie, PhD, RD
University of California, Davis
Davis, CA

70. Project # 12-06-0357 (Ruiz)
Title: Ascertainment of Environmental Exposure During Pregnancy
PI: Martin Kharrazi, PhD
California Department of Public Health
Oakland, CA

71. Project # 12-06-0355 (Dickey)
Title: Gestational Age Measurement in California Birth Records
PI: Martin Kharrazi, PhD
California Department of Public Health
Oakland, CA

72. Project # 12-11-0925 (Lowe)
Title: Molecular Markers of Preterm Birth – Maternal and Infant Genetic Contributions to Preterm Birth: The Inflammatory Response
PI: Martin Kharrazi, PhD
California Department of Public Health
Oakland, CA
73. Project # 2017-022 (Palacio)
Title: Characteristics of Persons Admitted to State Prisons, 2009 and 2014
PI: Matthew Durose, Masters of Science
Department of Justice
Washington, D.C.

74. Project # 2017-103 (Dinis)
Title: Health at Birth and Adult Socio-Economic Outcomes
PI: Maya Rossin-Slater, PhD
Co-PI: Raj Chetty, PhD
Stanford University
Stanford, CA
John Friedman, PhD
Brown University
Providence, RI
W. Reed Walker, PhD
University of California, Berkeley
Berkeley, CA

75. Project # 12-11-0903 (Lowe)
Title: Cohort Cancer Registry Follow-Up Study
PI: Meir Stampfer, MD, DrPH
Harvard University
Cambridge, MA

76. Project # 2018-003 (Palacio)
Title: A Comparison of Criminal and Violent Recidivism: Conditional Release Program-Released Patients and Directly-Discharged Patients by Legal Classification
PI: Melinda DiCiro, PsyD
Co-PI: Shiva Amin, PhD
California Department of State Hospitals
Sacramento, CA

77. Project # 16-10-2744 (Palacio)
Title: California's College and Career Readiness Standards in the Era of Common Core Assessments
PI: Michal Kurlaender, PhD
Co-PI: Jonathan Isler, PhD
University of California, Davis
Davis, CA
78. Project # 12-11-0945 (Dickey)
Title: Central Valley Autism Project, Incorporated: Early Intensive Behavioral Treatment Outcome Study
PI: Mieke San Julian, MA, BCBA
Central Valley Autism Project, Incorporated
Sacramento, CA

79. Project # 2018-030 (Ruiz)
Title: Whole Person Care (WPC) Pilot Evaluation Design
PI: Nadereh Pourat, PhD
University of California, Los Angeles
Los Angeles, CA

80. Project # 15-12-2363 (Ruiz)
Title: Risk of Second Cancers Among People with Human Immunodeficiency Virus/Acquired Immune Deficiency Syndrome
PI: Nancy Hessol, MSPH
University of California, San Francisco
San Francisco, CA

81. Project # 15-12-2357 (Dickey)
Title: Investigating Epidemiology and Long-Term Outcomes of Infectious Endocarditis
PI: Natalia Egorova, PhD
Mount Sinai School of Medicine
New York, NY

82. Project # 15-12-2344 (Dinis)
Title: Asian and Pacific Islander Community Exposures (ACE) Project
PI: Nerissa Wu, PhD
California Department of Public Health
Oakland, CA

83. Project # 16-10-2729 (Ruiz)
Title: Pancreatic Cystic Lesions: Descriptive Epidemiology and Natural History
PI: Paige Bracci, PhD, MS, MPH
University of California, San Francisco
San Francisco, CA
84. Project # 12-12-1006 (Dickey)
   Title: Molecular Epidemiology of Pancreatic Cancer
   PI: Paige Bracci, PhD, MS, MPH
   University of California, San Francisco
   San Francisco, CA

85. Project # 17-01-2834 (Dickey)
   Title: Participant Voices Study
   PI: Pat Crawford, DrPH, RD
   Co-PI: Wendi Gosliner, DrPH, RD
   University of California, Davis Natural and Agricultural Resources
   Davis, CA

86. Project # 2018-019 (Lund)
   Title: The Old Globe Theatre's Reflecting Shakespeare Program Evaluation
   PI: Patricia Saraniero, EdD
   Moxie Research
   San Diego, CA

87. Project # 2018-009 (Delgado)
   Title: Hospital Visits Due to External Causes of Injury: A Time Series Analysis
   PI: Peter Tuckel, PhD
   Co-PI: William Milczarski, PhD
   City University of New York
   New York, NY

88. Project # 13-09-1341 (Ruiz)
   Title: Disparities in the Surgical Treatment of Cancer Based on Race, Ethnicity,
   and Immigration Status
   PI: Philip Ituarte, PhD, MPH
   Co-PI: Jae Kim, MD
   City of Hope
   Duarte, CA

89. Project # 2017-040 (Perel)
   Title: Trends in the Use of Percutaneous Intervention in Congenital Heart Disease
   for Pediatric Patients
   PI: Rie Sakai-Bizmark, MD, MPH, PhD
   Los Angeles Biomedical Research Institute
   Torrance, CA
90. Project # 2018-020 (Dickey)
Title: The University of California San Diego Newborn Screening-Autism Risk Study
PI: Robert Naviaux, MD, PhD
University of California, San Diego
La Jolla, CA

91. Project # 12-12-0959 (Ruiz)
Title: Enhancement of Surveillance of Vaccine Preventable Diseases Using California Hospital Discharge and Death Data
PI: Robert Schechter, MD
Co-PI: Kathleen Harriman, PhD
California Department of Public Health
Oakland, CA

92. Project # 13-02-1085 (Ruiz)
Title: The Connie Wofsy Women's Human Immunodeficiency Virus Study (Northern CA Women’s Interagency Human Immunodeficiency Virus Study)
PI: Ruth Greenblatt, MD
University of California, San Francisco
San Francisco, CA

93. Project # 2018-041 (Dinis)
Title: Impact of Neighborhoods and Navigation on Survivorship
PI: Salma Shariff-Marco, PhD, MPH
Co-PI: Alyssa Nickell, PhD
University of California, San Francisco
San Francisco, CA

94. Project # 13-02-1084 (Dickey)
Title: Perinatal Regionalization and Quality of Care
PI: Scott A Lorch, MD, MSCE
University of Pennsylvania
Philadelphia, PA

95. Project # 2018-045 (Schaeuble)
Title: School Readiness Home Visits: Year 5 Evaluation of the Little by Little Program
PI: Shannon Whaley, PhD
Co-PI: Catherine Martinez, MPH
Public Health Foundation Enterprise Women, Infants, and Children
Irwindale, CA
96. Project # 13-08-1323 (Schaeuble)
Title: The Relationship Between the Rorschach Performance Assessment System Cognitive Processing Scales and Neuropsychological Status in a Conditional Release Offender Population
PI: Shay Groenewold, MA
Alliant International University
San Diego, CA

97. Project # 12-12-0949 (Dickey)
Title: Los Angeles Mommy and Baby (Lamb) Project
PI: Shin Chao, PhD
Los Angeles County
Los Angeles, CA

98. Project # 13-09-1350 (Ruiz)
Title: Los Angeles Mommy and Baby Project Follow Up Project (LAMB Follow-Up)
PI: Shin Chao, PhD
Los Angeles County
Los Angeles, CA

99. Project # 14-11-1799 (Ruiz)
Title: Exogenous Shocks In Utero and Infant Health: Evidence from California
PI: Shin-Yi Chou, PhD
Co-PI: Muzhe Yang, PhD
Lehigh University
Bethlehem, PA

100. Project # 12-11-0927 (Ruiz)
Title: Collection of Gene Mutations for Laboratory Quality Assurance
PI: Stanley Sciortino, MPH, PhD
Co-PI: Jeff Sanchez, BA
California Department of Public Health
Oakland, CA

101. Project # 15-11-2299 (Schaeuble)
Title: Insurance Coverage, Employment Status, and Copayments/Deductibles Faced by Young Women Diagnosed with Breast Cancer
PI: Sujha Subramanian, PhD
Research Triangle Park International
Research Triangle Park, NC
102. Project # 14-10-1750 (Schaeuble)
   Title: Kaiser Permanente Inter-Regional Behavioral Health Suicide Metric for Quality Improvement Benchmarking
   PI: Sumita Bhatia, MPH, MS
   Co-PI: Jean Flores, MPH
   Kaiser Permanente
   Oakland, CA

103. Project # 16-11-2793 (Ruiz)
   Title: Changes in Safety at High Desert State Prison: Official Data Analysis
   PI: Susan Turner, PhD
   University of California, Irvine
   Irvine, CA

104. Project # 2017-042 (Ruiz)
   Title: California Reducing Disparities Project Phase 2, Convivencia Local Evaluation
   PI: Susana Morales, MA
   California Department of Public Health
   Oakland, CA
   Co-PI: Rafael Colonna, PhD
   California Department of Public Health
   Sacramento, CA

105. Project # 12-11-0935 (Ruiz)
   Title: Foodborne Diseases Active Surveillance Network: Population Survey
   PI: Tanya Libby, MPH
   Co-PI: Duc Vugia, MD, MPH
   California Emerging Infections Program
   Oakland, CA

106. Project # 15-10-2260 (Dickey)
   Title: Collection of Confirmed Duchenne Muscular Dystrophy Positive and Presumptive Negative Newborn Screening Dried Blood Spot Specimens
   PI: Lisa Vershave
   Perkin Elmer
   Indianapolis, Indiana

106. Project # 17-04-2939 (Palacio)
   Title: Racial and Immigrant Generation Disparities in Birth Outcomes
   PI: Theresa Andrasfay, MA
   Princeton University
   Princeton, NJ
107. Project # 15-09-2210 (Dickey)
Title: Utilizing Electronic Health Records to Measure and Improve Prostate Cancer Care
PI: Tina Hernandez-Boussard, PhD
Co-PI: Scarlett L Gomez, PhD
Stanford University
Stanford, CA

108. Project # 12-07-0507 (Ruiz)
Title: Genome Wide Admixture for Multiple Myeloma in African Americans
PI: Wendy Cozen, DO, MPH
Co-PI: Christopher Haiman, ScD
University of Southern California
Los Angeles, CA

109. Project # 2018-013 (Ruiz)
Title: Host Factors, Tumor Microenvironment and Survival in a Multi-Ethnic Study of Hodgkin Lymphoma Patients
PI: Wendy Cozen, DO, MPH
University of Southern California
Los Angeles, CA

110. Project # 15-11-2298 (Trent)
Title: Opioid Use Disorders in Primary Care Settings: Linking Electronic Health Records with Prescription Drug Monitoring Program and National Death Index Data Systems
PI: Yih-Ing Hser, PhD
University of California, Los Angeles
Los Angeles, CA

111. Project # 15-03-1914 (Dickey)
Title: Geocoding Decedents’ Home Addresses to Evaluate Health Impacts from Localized Sources of Air Pollution
PI: Virginia Lau, MS
Bay Area Air Quality Management District
San Francisco, CA
J. Projects with Major Revisions Requiring Periodic Review

1. Project # 12-11-0893 (Dickey)
   Title: Pilot Study of Trends and Risks in Gestational Diabetes
   PI: Assiamira Ferrara, MD, PhD
       Kaiser Permanente
       Oakland, CA

2. Project # 15-02-1885 (Ruiz)
   Title: Coordinating All Resources Effectively (CARE) for Children with Medical Complexity
   PI: Carlos Lerner, MD
       University of California, Los Angeles
       Los Angeles, CA

3. Project # 12-12-0962 (Ruiz)
   Title: The Utility of the Minnesota Multiphasic Personality Inventory-2, Minnesota Multiphasic Personality Inventory-2 Reconstructive Form, and Personality Assessment Inventory in a State Psychiatric Hospital
   PI: David Glassmire, PhD
       California Department of State Hospitals
       Sacramento, CA

4. Project # 13-10-1366 (Molitor)
   Title: The Children's Data Network/California Children's Services Archive
   PI: Emily Putnam-Hornstein, PhD
   Co-PI: Jacquelyn McCroskey, DSW
       University of Southern California
       Los Angeles, CA

5. Project # 14-08-1658 (Ruiz)
   Title: Environmental Health Tracking and Childhood Cancers in California
   PI: Julia Heck, PhD
       University of California, Los Angeles
       Los Angeles, CA

6. Project # 14-12-1829 (Ruiz)
   Title: Champions for Change Media Campaign Evaluation
   PI: Lauren Whetstone, PhD
       California Department of Public Health
       Sacramento, CA
7. Project # 12-05-0176 (Dickey)
   Title: California Health Interview Survey
   PI: Ninez Ponce, PhD
   Co-PI: Todd Hughes, BS
   University of California, Los Angeles
   Los Angeles, CA

8. Project # 17-07-3079 (Molitor)
   Title: Gestational Vitamin D and Relationship with Autism Spectrum Disorders
   PI: Rebecca Schmidt, PhD
   University of California, Davis
   Davis, CA

9. Project # 16-09-2711 (Ruiz)
   Title: Effect of Changing Neonatal Intensive Care Unit Patient Volumes and
   Levels of Care on Neonatal Outcomes
   PI: Scott A Lorch, MD, MSCE
   University of Pennsylvania
   Philadelphia, PA
   Co-PI: Ciaran Phibbs, PhD
   Stanford University
   Stanford, CA

10. Project # 16-06-2577 (Lund)
    Title: Developing a Patient-Level Risk Prediction Model for Prescription Opioid
    Overdose and Death
    PI: Stephen Henry, MD, MSc
    University of California, Davis
    Davis, CA
    Co-PI: Tina Farales, BA
    Department of Justice
    Sacramento, CA

11. Project # 17-01-2843 (Trent)
    Title: Local Community Health Needs Assessment Data
    PI: Warren Jensen, BA
    Gary Bess Associates
    Paradise, CA
K. Projects with Request for CPHS to Rely on Another IRB

1. Project # 2017-042 (Ruiz)
   Title: California Reducing Disparities Project Phase 2, Convivencia Local Evaluation
   PI: Susana Morales, MA
       California Department of Public Health
       Oakland, CA
   Co-PI: Rafael Colonna, PhD
       California Department of Public Health
       Sacramento, CA

L. Exemption/Determination Requests

1. Project # 2018-268 (Lowe)
   Title: Assessment of Responder Behavioral Health Practices Among Response Agencies
   PI: Jason Wilken, PhD
       California Department of Public Health
       Oakland, CA

2. Project # 2018-267 (Lowe)
   Title: Community Assessment of Preparedness for Emergency Response (CASPER) for Heat Preparedness, Imperial County
   PI: Jason Wilken, PhD
       California Department of Public Health
       Oakland, CA

3. Project # 2018-190 (Ruiz)
   Title: Medi-Cal Dental Utilization Rates for Children in Foster Care in Los Angeles County
   PI: Maritza Cabezas, DDS, MPH
       Los Angeles County
       Los Angeles, CA

4. Project # 2018-271 (Ruiz)
   Title: Interferon Gamma Release Assay Sensitivity Among Older Adults
   PI: Pennan Barry, MD
   Co-PI: Adam Readhead, PhD, MPH
       California Department of Public Health
       Oakland, CA
M. Final Reports

1. Project # 12-12-0985 (None)
   Title: Reproductive Outcomes Among Female Flight Attendants
   PI: Candice Johnson, PhD
   Co-PI: Christina Lawson, PhD
   National Institute of Occupational Safety and Health
   Atlanta, GA

2. Project # 13-01-1048 (None)
   Title: Research in Language and Cognitive Development
   PI: Catherine Sandhofer, PhD
   University of California, Los Angeles
   Los Angeles, CA

3. Project # 16-02-2427 (None)
   Title: The National Longitudinal Study of Adolescent to Adult Health – Project II: Birth Records
   PI: Jon Hussey, PhD, MPH
   University of North Carolina
   Chapel Hill, NC
   Co-PI: Jennifer Buher Kane, PhD
   University of California, Irvine
   Irvine, CA

4. Project # 12-12-1007 (None)
   Title: Colorectal Cancer Family Epigenetic Study Program
   PI: S. Pamela Shiao, PhD
   Augusta University
   Augusta, GA