

Infectious Diseases/HIV Research Newsletter

Fall 2024 Newsletter

Welcome to the **TPMG ID/HIV Research Newsletter!**

Here, we present current or recently completed research projects led by clinician researchers as well as ongoing studies led by investigators at the Division of Research (DOR) that involve our clinician researchers.

Conducting research to improve care is important to many KPNC TPMG clinicians and DARE is proud to provide our physicians with research collaboration opportunities through several [DARE funding mechanisms](#).

In this issue, we will provide you with updates regarding ongoing research and a list of the incredible recently published research.



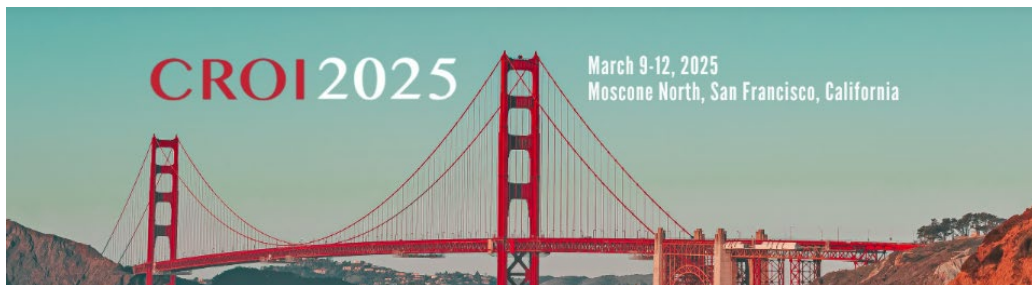
A Deeper Look Inside This Update:

- Upcoming events & funding
- Active and recent research projects
- Recent peer reviewed publications

Upcoming Event!

CROI

Conference on Retroviruses and Opportunistic Infections



Dates: March 9-12, 2025

Location: San Francisco, CA, USA

For more information: <https://www.croiconference.org>

Internal Funding & Research Resources

-  **General Funding Opportunities**
-  **Delivery Science and Applied Research**
-  **Specialty Research Networks**
-  **Getting Started with Research**
-  **Division of Research**

Active Research Projects and Collaborations

HPV self-collection

Betty Suh-Burgmann | PRP | Ongoing

PURPOSE 2: A Phase 3, Double-Blinded, Multicenter, Randomized Study to Evaluate Safety and Efficacy of Twice Yearly Long-Acting Lenacapavir for HIV Pre-Exposure Prophylaxis in Cisgender Men, Transgender Women, Transgender Men, and Gender Non-binary People

Brad Hare | Industry | Ongoing

HIV Drug Resistance Mutation as Predictors of Clinical Outcome; Collaboration with Stanford

Brad Hare | Other | Ongoing

A new approach to an old problem: Redesigning latent tuberculosis screening and treatment

Jacek Skarbinski, Sara Tartof | NIH | Ongoing

California Emerging Infections Program: Active Bacterial Core Surveillance

Jacek Skarbinski, Sumanth Rajagopal | Other | Ongoing

California Emerging Infections Program: Foodborne Diseases Active Surveillance Network

Jacek Skarbinski | Other | Ongoing

California Emerging Infections Program: Healthcare-Associated Infections

Jacek Skarbinski | Other | Ongoing

California Emerging Infections Program: Population-Based Influenza Hospitalization Surveillance

Jacek Skarbinski | Other | Ongoing

California Emerging Infections Program: Respiratory Syncytial Virus (RSV)

Jacek Skarbinski | Other | Ongoing

California Emerging Infections Program: SARS-CoV-2 Surveillance in Hospitalized Children and Adults

Jacek Skarbinski | Other | Ongoing

Evaluating Active Outreach to Improve Screening and Treatment of Tuberculosis Infection

Jacek Skarbinski | PRP | Ongoing

Improving Screening and Treatment of Latent Tuberculosis Infection in a Large, Integrated Health System

Jacek Skarbinski | CDC | Completed

Reducing Infectious Complications in Patients with Acute Myeloid Leukemia

Jacek Skarbinski, Sumanth Rajagopal | DSGP | Ongoing

SARS-CoV-2 Serological Antibody Testing for Disease Surveillance and Clinical Use

Jacek Skarbinski, Larry Kushi, Douglas Corley | NIH | Ongoing

Sexual Health E-visit as a Tool to Improve Access to Prevention and Treatment of Sexually Transmitted Infections

Jacek Skarbinski, Amanda Thornton, Dana Clutter | DSGP | Ongoing

STOP ME/CFS - Surveillance to Optimize Protocols for Early identification and Subgrouping of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome

Jacek Skarbinski, Jamila Champsi | Other | Ongoing

Electronic Health Record-Based Dementia Prediction for HIV Primary Care

Jennifer Lam | NIH | Ongoing

Multiregional partnership to evaluate cognitive impairment and dementia in older adults with HIV infection

Jennifer Lam | Garfield Memorial Fund | Ongoing

K23: Impact of gestational SARS-CoV-2 and maternal inflammation on child growth and neurodevelopment in a malaria-endemic setting

Karen Jacobson, Nicola Klein | NIH | Ongoing

VSD: Vaccination coverage in school-age children pre and post pandemic for COVID-19 and other recommended childhood vaccines

Kristin Goddard, Nicola Klein | CDC | Ongoing

(PQ3) Addressing Cancer Treatment Disparities for Persons with HIV

Michael Silverberg | NIH | Ongoing

2/3 COMpAAAS Tripartite: ART-CC, KP, and VA

Michael Silverberg, Derek Satre | NIH | Ongoing

Assessing Syndemics of Cardiovascular Disease in People with and without HIV

Michael Silverberg | NIH | Ongoing

Cabotegravir PrEP: Actionable Robust Evidence for Translation into Practice (CABARET)

Michael Silverberg | NIH | Ongoing

California Emerging Infections Program: HPV Vaccine Impact Monitoring Through Surveillance of Cervical Precancerous Lesions

Michael Silverberg | Other | Ongoing

Cervical Cancer Screening After Age 65 in the Era of HPV Testing: Estimating Benefits and Harms of Screening Cessation and Continuation

Michael Silverberg | NIH | Ongoing

Kaiser Permanente contribution to US Department of Health and Human Service America's HIV Epidemic Analysis Dashboard

Michael Silverberg | CDC | Ongoing

Mentoring Alcohol Use Intervention Research in HIV Health Care Settings

Michael Silverberg, Derek Satre | NIH | Ongoing

North American AIDS Cohorts on Collaboration and Design (NAACCORD)

Michael Silverberg | NIH | Ongoing

A Master Phase 1/2/3 Protocol to Investigate the Safety, Tolerability, and Immunogenicity of Variant-Adapted BNT162b2 RNA-Based Vaccine Candidate(s) in Health Children (Pfizer C4591048)

Nicola Klein | Pfizer | Ongoing

A Phase 1, Open-Label Dose-Finding Study To Evaluate Safety, Tolerability, And Immunogenicity And Phase 2/3 Placebo-Controlled, Observer-Blinded Safety, Tolerability, And Immunogenicity Study Of A Sars-Cov-2 Rna Vaccine Candidate Against Covid-19 In Healthy Children and Among Young Adults (Pfizer C4591007)

Nicola Klein | Pfizer | Ongoing

A Phase 4 Study Using a Test-Negative Design to Evaluate the Effectiveness Of A 20-Valent Pneumococcal Conjugate Vaccine against Vaccine-Type Radiologically-Confirmed Community acquired Pneumonia in Adults ≥ 65 Years of Age

Nicola Klein | Pfizer | Ongoing

A Phase II, single-blind, randomized, controlled study to evaluate the immunogenicity and safety of a measles, mumps, rubella, varicella vaccine compared with *ProQuad*, administered in healthy children 4 to 6 years of age (GSK 217715 [MMRVNS 20-001])

Nicola Klein | GSK | Ongoing

A Phase IIIB, Observer-Blind, Randomized, Placebo-Controlled, Multi-Center Study to Assess the Safety and Immunogenicity of GSK Meningococcal Group B Vaccine and 13-valent Pneumococcal Vaccine when Administered Concomitantly with Routine Vaccines to Healthy Infants (GSK Protocol 205239 (MENB REC 2ND GEN V72_57))

Nicola Klein | GSK | Ongoing

A Prospective Observational Study to Evaluate the Safety of COVID-19 Vaccination in Children and Adolescents

Nicola Klein | CDC | Ongoing

A Prospective, Randomized, Open-label Clinical Trial to Assess the Safety of Simultaneous Vaccination with mRNA COVID-19 Vaccine and Other Vaccines in Young Children Aged 6 Months to <5 years.

Nicola Klein | CDC | Ongoing

A Virtual Network to Investigate the Effectiveness of COVID-19 and influenza vaccines and evaluate the burden and epidemiology of respiratory viruses

Nicola Klein, Ousseny Zerbo | CDC | Ongoing

An observational cohort to assess background rates of maternal, fetal, neonatal, and infant outcomes and events of interest (EIs) to inform maternal immunization clinical trials

Nicola Klein | GSK | Ongoing

BEYFORTUS™ (nirsevimab) Effectiveness Against RSV Medically-Attended Events in Infants (BEAR Study)

Nicola Klein | Sanofi | Ongoing

Clinical Immunization Safety Assessment (CISA): Clinical Consult

Nicola Klein | CDC | Ongoing

Clinical Immunization Safety Assessment (CISA): COVID Consult

Nicola Klein | CDC | Ongoing

COVID surveillance (CDC Vaccine Safety Datalink population-based surveillance)

Nicola Klein | Other | Ongoing

Effectiveness of Adacel Vaccination in Pregnancy in Preventing Infant Pertussis

Nicola Klein | Sanofi | Ongoing

Flublok Vaccine Effectiveness Sub-study: Whole Genome Sequencing of Select Flu Positive Specimens in the 2018-2019 Influenza Cycle

Nicola Klein | Sanofi | Ongoing

GSK72_79 205419 Safety and Immunogenicity Study of GSK Meningococcal Group B Vaccine Bexsero (GSK3536829A) when Administered Concomitantly with GSK Meningococcal MenACWY Conjugate Vaccine Menveo (GSK3536820A) to Healthy Subjects 16-18 Years of Age

Nicola Klein | GSK | Ongoing

Innovative Methods to Inform Estimates of Vaccine Effectiveness Using Information on the Epidemiology and Incidence of Influenza and Other Acute Respiratory Illnesses

Nicola Klein, Ousseny Zerbo | Other | Ongoing

PCV13 Effectiveness Against Invasive Pneumococcal Disease Caused by Serotype 3

Nicola Klein | Pfizer | Ongoing

Post-licensure Database Surveillance Study to Assess the Safety of Flublok Quadrivalent (Influenza Vaccine) in Pregnant Women and Their Offspring

Nicola Klein | Sanofi | Ongoing

Relative Vaccine Effectiveness of Adjuvanted Quadrivalent Inactivated Influenza Vaccine (aIIV4) vs High-Dose Quadrivalent Inactivated Influenza Vaccine (HD-IIV4) for Prevention of Lab-Confirmed Influenza among adults ≥ 65 years of age for the 2023-24 and 2024-25 season in the United States

Nicola Klein | Seqirus | Ongoing

Safety of Tetanus, Diphtheria, Acellular Pertussis with 5 Acellular Pertussis Components (Tdap5) Vaccination during Pregnancy: A Cohort Study using US Electronic Medical Record Data

Nicola Klein | Sanofi | Ongoing

Vaccine Safety Datalink (VSD) Infrastructure

Nicola Klein, Ousseny Zerbo | CDC | Ongoing

VSD: COVID Vaccine Safety Rapid Cycle Analysis

Nicola Klein | CDC | Ongoing

VSD: Evaluating Effectiveness of Recombinant Zoster Vaccine

Nicola Klein, Ousseny Zerbo | CDC | Ongoing

Vancomycin area under the curve-guided dosing and monitoring in the outpatient setting

Meredith Silverman, Cynthia Campbell, Rika Alavi | RAU | Ongoing

Analysis to evaluate the effectiveness of a serogroup B outer membrane vesicle meningococcal vaccine against gonorrhoea

Ousseny Zerbo | Other | Ongoing

Characterizing RSV, influenza, and COVID-19 testing, burden, and population characteristics in pediatric and older adult populations in Kaiser Permanente Northern California (KPNC)

Ousseny Zerbo | Moderna | Ongoing

COVID and Influenza Near Real-Time Surveillance

Ousseny Zerbo | Other | Ongoing

Effect of Maternal Influenza Vaccination During Pregnancy on Risk of Infant Influenza

Ousseny Zerbo | Other | Ongoing

Healthcare Utilization Patterns Post-acute COVID-19

Ousseny Zerbo | Other | Ongoing

R01: COVID- 19 Vaccine Effectiveness in Pregnant Women and Their Infants

Ousseny Zerbo | NIH | Ongoing

VSD: Risk of Immune Thrombocytopenia and Immunoglobulin A Vasculitis after Receiving Measles-containing Vaccines in 4 - 6-year-old children

Ousseny Zerbo | CDC | Ongoing

VSD: Safety of Recombinant Zoster Vaccine Among Immunocompromised People in the VSD

Ousseny Zerbo | CDC | Ongoing

Recent Peer Reviewed Publications authored by HIV/ID Investigators in 2024

**KPNC Authors listed in alphabetical order below; for details on full list of authors and order, click on the link included to the PubMed Abstract*

STOP-ME/CFS and COVID-SELECT. Impact of COVID-19 on myalgic encephalomyelitis/chronic fatigue syndrome-like illness prevalence: A cross-sectional survey [[PubMed Abstract](#)] Wood MS, Halmer N, Bertolli J, Amsden LB, Nugent JR, Lin JS, Rothrock G, Nadle J, Chai SJ, Cope JR, Champisi JH, Yang J, Unger ER, Skarbinski J |9/18/2024| PLoS One

Tuberculosis and Chronic Hepatitis B Virus Infection Screening Among Non-US-Born Persons in an Integrated Health System in California [[PubMed Abstract](#)] Wick JM, Ni Y, Halmer N, Wong RJ, Chitnis AS, Jaganath D, Krueger AL, Skarbinski J |09/3/2024| Open Forum Infect Dis

Ischemic Stroke After Bivalent COVID-19 Vaccination: Self-Controlled Case Series Study [[PubMed Abstract](#)] Fireman, Bruce; Klein, Nicola P | 6/25/2024 | Jmir Public Health And Surveillance

Clinically recognized sleep disorders in people living with HIV [[PubMed Abstract](#)] Hou, Craig E; Alexeeff, Stacey; Lam, Jennifer; Lea, Alexandra N A; Levine, Tory MS; Metz, Verena E; Sarovar, Varada; Satre, Derek D; Silverberg, Michael J | 6/18/2024 | Hiv Medicine

Nirmatrelvir-Ritonavir and Symptoms in Adults With Postacute Sequelae of SARS-CoV-2 Infection: The STOP-PASC Randomized Clinical Trial [[PubMed Abstract](#)] Jacobson, Karen B | 6/7/2024 | JAMA Internal Medicine

Coronavirus Disease 2019 (COVID-19) Vaccination and Stillbirth in the Vaccine Safety Datalink [[PubMed Abstract](#)] Klein, Nicola P | 6/6/2024 | Obstetrics And Gynecology

COVID-19 Vaccination Coverage and Factors Associated With Vaccine Uptake Among People With HIV [[PubMed Abstract](#)] Klein, Nicola P | 6/3/2024 | JAMA Network Open

Obstetric Complications and Birth Outcomes After Antenatal Coronavirus Disease 2019 (COVID-19) Vaccination [[PubMed Abstract](#)] Zerbo, Ousseny | 6/1/2024 | Obstetrics And Gynecology

Evaluation of Pre-Analytical Variables for Human Papillomavirus Primary Screening from Self-Collected Vaginal Swabs [[PubMed Abstract](#)] Duque, Abigail J; Lorey, Thomas S; Schapiro, Jeffrey M; Suh-Burgmann, Betty J | 6/1/2024 | The Journal Of Molecular Diagnostics : Jmd

A Phase Three Study of the Safety and Immunogenicity of a Four-dose Series of 20-valent Pneumococcal Conjugate Vaccine in Healthy Infants [[PubMed Abstract](#)] Klein, Nicola P | 6/1/2024 | The Pediatric Infectious Disease Journal

Association between gender-affirming hormone therapy and measures of glucose metabolism: A longitudinal study [[PubMed Abstract](#)] Silverberg, Michael J | 5/30/2024 | The Journal Of Clinical Endocrinology And Metabolism

Substance use and mental health factors associated with self-reported higher risk cannabis use among people with HIV screened in primary care [[PubMed Abstract](#)] Flamm, Jason A; Flamm, Jason A; Hare, Charles B; Hare, Charles B; Lea, Alexandra N A; Lea, Alexandra N A; Leibowitz, Amy S; Leibowitz, Amy S; Levine, Tory MS; Levine, Tory MS; Luu, Mitchell N; Luu, Mitchell N; Mian, Maha; Mian, Maha; Sarovar, Varada; | 5/29/2024 | Research Square

Post-COVID conditions following COVID-19 vaccination: a retrospective matched cohort study of patients with SARS-CoV-2 infection [[PubMed Abstract](#)] Zerbo, Ousseny | 5/22/2024 | Nature Communications

Cardiovascular Risk Estimation Is Suboptimal in People With HIV [[PubMed Abstract](#)] Hurley, Leo B; Klein, Daniel B; Silverberg, Michael J | 5/21/2024 | Journal Of The American Heart Association

Cardiovascular Disease Risk Factor Control in People With and Without Human Immunodeficiency Virus [[PubMed Abstract](#)] Alexeeff, Stacey; Flamm, Jason A; Hare, Charles B; Lam, Jennifer; Lea, Alexandra N A; Levine, Tory MS; Satre, Derek D; Silverberg, Michael J; Sterling, Stacy A | 5/15/2024 | Clinical Infectious Diseases

Latent tuberculosis infection testing practices in a large U.S. integrated healthcare system [[PubMed Abstract](#)] Skarbinski, Jack | 5/15/2024 | Clinical Infectious Diseases

Care interruptions and mortality among adults in Europe and North America: a collaborative analysis of cohort studies [[PubMed Abstract](#)] Silverberg, Michael J | 5/8/2024 | Aids (London, England)

Recent and projected incidence trends and risk of anal cancer among people with HIV in North America [[PubMed Abstract](#)] Silverberg, Michael J | 5/7/2024 | Journal Of The National Cancer Institute

Challenging Norms: The Impact of Transgender and Gender-Diverse Realities on Work and School Participation [[PubMed Abstract](#)] Silverberg, Michael J | 5/1/2024 | The American Journal Of Occupational Therapy : Official Publication Of The American Occupational Therapy Association

Influenza vaccination accuracy among adults: Self-report compared with electronic health record data [[PubMed Abstract](#)] Klein, Nicola P | 4/19/2024 | Vaccine

Overview of U.S. COVID-19 vaccine safety surveillance systems [[PubMed Abstract](#)] Goddard, Kristin S; Klein, Nicola P | 4/16/2024 | Vaccine

Using Electronic Health Records to Improve HIV Preexposure Prophylaxis Care: A Randomized Trial [[PubMed Abstract](#)] Lea, Alexandra N A; Lee, Catherine; Leyden, Wendy;

Liu, Vincent; Silverberg, Michael J; Volk, Jonathan E; Donnelly, Michelle C | 4/1/2024 | Journal Of Acquired Immune Deficiency Syndromes (1999)

Monthly Sulfadoxine-Pyrimethamine During Pregnancy Prevents Febrile Respiratory Illnesses: A Secondary Analysis of a Malaria Chemoprevention Trial in Uganda [[PubMed Abstract](#)] Jacobson, Karen B | 4/1/2024 | Open Forum Infectious Diseases

Smells like a variant: How the association between COVID-19 and olfactory dysfunction changed between 2019 and 2022 [[PubMed Abstract](#)] DiLena DD, Warton EM, Vinson DR, Siqueiros MH, Rauchwerger AS, Mark DG, Skarbinski J, Cholleti SM, Durant EJ, Reed ME, Ballard DW; Kaiser Permanente CREST Network | 4/1/2024 | J Intern Med

Self-reported pain severity and use of cannabis and opioids in persons with HIV in an urban primary care setting in Northern California: A cross-sectional study [[PubMed Abstract](#)] Campbell, Cynthia I; Leibowitz, Amy S; Leyden, Wendy; Satre, Derek D; Silverberg, Michael J; Kim, Hannah J | 3/29/2024 | Medicine

Interim Effectiveness of Updated 2023-2024 (Monovalent XBB.1.5) COVID-19 Vaccines Against COVID-19-Associated Hospitalization Among Adults Aged ≥18 Years with Immunocompromising Conditions - VISION Network, September 2023-February 2024 [[PubMed Abstract](#)] Fireman, Bruce; Goddard, Kristin S; Hansen, John; Klein, Nicola P; Zerbo, Ousseny | 3/28/2024 | Mmwr. Morbidity And Mortality Weekly Report

Concurrent Sexually Transmitted Infections with Mpox Infections: A Brief Review [[PubMed Abstract](#)] Pelliccione, Alex J; Tran, H Nicole; Wick, Jenna M; Skarbinski, Jack | 3/15/2024 | The Permanente Journal

Longitudinal trends in causes of death among adults with HIV on antiretroviral therapy in Europe and North America from 1996 to 2020: a collaboration of cohort studies [[PubMed Abstract](#)] Silverberg, Michael J | 3/1/2024 | The Lancet. Hiv

Risk of COVID-19 Hospitalization and Protection Associated With mRNA Vaccination Among US Adults With Psychiatric Disorders [[PubMed Abstract](#)] Klein, Nicola P | 3/1/2024 | Influenza And Other Respiratory Viruses

Interim Effectiveness of Updated 2023-2024 (Monovalent XBB.1.5) COVID-19 Vaccines Against COVID-19-Associated Emergency Department and Urgent Care Encounters and Hospitalization Among Immunocompetent Adults Aged ≥18 Years - VISION and IVY Networks, Sept [[PubMed Abstract](#)] Fireman, Bruce; Klein, Nicola P | 2/29/2024 | Mmwr. Morbidity And Mortality Weekly Report

Interim Estimates of 2023-24 Seasonal Influenza Vaccine Effectiveness - United States [[PubMed Abstract](#)] Klein, Nicola P | 2/29/2024 | Mmwr. Morbidity And Mortality Weekly Report

Relative contribution of COVID-19 vaccination and SARS-CoV-2 infection to population-level seroprevalence of SARS-CoV-2 spike antibodies in a large integrated health system [[PubMed Abstract](#)] Shapiro, Jeffrey M; Amsden, Laura B; Chervo, Tyler C; Elkin, Eric P; Ergas, Isaac J; Flores, Monica; Hsiao, Crystal; Kushi, Larry; Munneke, Julie R; Nugent, Joshua

R; Quesenberry, Charles P; Skarbinski, Jack; Valice, Emily | 2/2/2024 | Medrxiv : The Preprint Server For Health Sciences

Effectiveness of Recombinant Zoster Vaccine Against Herpes Zoster in a Real-World Setting [[PubMed Abstract](#)] Lewis, Edwin M; Bartlett, Joan; Fireman, Bruce; Goddard, Kristin S; Klein, Nicola P; Zerbo, Ousseny | 2/1/2024 | Annals Of Internal Medicine

Changes in Body Mass Index Over Time in People With and Without HIV Infection [[PubMed Abstract](#)] Marcus, Julia L; Alexeeff, Stacey; Lam, Jennifer; Lea, Alexandra N A; Leyden, Wendy; Pitts, Lakecia T; Silverberg, Michael J | 2/1/2024 | Open Forum Infectious Diseases

Relative contribution of COVID-19 vaccination and SARS-CoV-2 infection to population-level seroprevalence of SARS-CoV-2 spike antibodies in a large integrated health system [[PubMed Abstract](#)] Schapiro, Jeffrey M; Amsden, Laura B; Chervo, Tyler C; Corley, Douglas; Elkin, Eric P; Ergas, Isaac J; Flores, Monica; Habel, Laurel; Hsiao, Crystal; Kushi, Larry; Munneke, Julie R; Nugent, Joshua R; Quesenberry, Charles P; Skarbinski, Jack; Valice, | 1/1/2024 | Plos One

The forecasted prevalence of comorbidities and multimorbidity in people with HIV in the United States through the year 2030: A modeling study [[PubMed Abstract](#)] Silverberg, Michael J | 1/1/2024 | Plos Medicine