

CURRICULUM VITAE

Name: Ali Mirzazadeh, MD, MPH, PhD

Current Position: Assistant Professor
Associate Director, PhD in Global Health at UCSF
Epidemiology & Biostatistics Department,
School of Medicine, University of California, San Francisco

Address: Cubicle 3556
550 16th Street, 3rd Floor
Institute for Global Health Sciences, University of California, San Francisco
San Francisco, CA 94158
Phone: 415-476-5821
Email: ali.mirzazadeh@ucsf.edu
Web: <http://profiles.ucsf.edu/ali.mirzazadeh>

Personal Statement

I am a medical doctor and Ph.D. epidemiologist in the Institute for Global Health Sciences, and the Department of Epidemiology and Biostatistics at the University of California, San Francisco (UCSF).

I teach surveillance, monitoring and evaluation, measurement theories, clinical designs, data analysis and scientific writing at UCSF. Additionally, I lead sections in the Department's large service courses Epidemiology/Evidence Based Medicine and Designing Clinical Research as well as the International Traineeships in AIDS Prevention Studies short course program, and also mentored several PhD, MD, and masters students from the United States, Canada, Australia, and Iran.

My specialty in research is bio-behavioral surveys of female sex workers (FSW), people who inject drugs (PWID), men who have sex with men (MSM), prisoners and street youth. I have used HIV and TB surveillance data for program evaluation and back-calculation modeling. I am the principal investigator (PI) of SELFii study (<http://en.irct.ir/trial/10083>), a Clustered Randomized Controlled Trial (RCT) to assess the effect of peer-driven HIV self-testing among FSW and their clients. I also lead Rostam study (<http://en.irct.ir/trial/31356>), a prospective cohort study to measure behaviors, new infections of HIV and HCV, and feasibility and impact of one-stop shop community-based HCV treatment model among PWID. I am also the PI for a study funded by global fund to map and estimate the population size of PWID, FSW and MSM in eight cities in Afghanistan.

I have designed and led mixed methods studies, cross-sectional surveys, validation studies, cohorts, case-control and case-crossover studies, systematic review and meta-analysis and modeling studies, and trials on several health outcomes including HIV, STIs and Non-communicable diseases and risk factors. My statistical skills are advanced methods to analyze

data from complex designed surveys, national case-based surveillances, multi-site cohorts of PWID, surveys with respondent' driven sampling (RDS), and randomized controlled trails.

Methods that I have applied for data analysis are multiple imputations, generalized equation estimation models, bias-analysis, meta-analysis, dyadic cross-classified GEE, and back-calculation modeling. I am a professional user of STATA, R, RedCAP and Qualtrics, and Excel.

I have authored over 117 articles, 5 book chapters and 1 UNICEF guidebook on how to study hard to each youth.

I love biking and I am a fifth-time rider in the AIDS Lifecycle.

EDUCATION

1996 - 2004	Kerman University of Medical Sciences, Kerman, Iran	M.D.	Medicine
2002 - 2004	Kerman University of Medical Sciences, Kerman, Iran	Intern	Medicine
2006 - 2007	Tehran University of Medical Sciences, Tehran, Iran	Master	Public Health
2009 - 2013	Tehran University of Medical Sciences, Tehran, Iran	Ph.D.	Epidemiology
2012 - 2014	University of California San Francisco, San Francisco	Postdoctoral Fellow	Global Health

OTHER PROFESSIONAL SERVICE

2018 - present	Division of Tuberculosis Elimination, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, U.S. Centers for Disease Control and Prevention, Atlanta, Georgia	Guest Researcher
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LICENSES, CERTIFICATION

2004	Medical license, Iran
2015	HIV Counselor, California

PRINCIPAL POSITIONS HELD

2005 - 2006	Physiology Research Center, Kerman University of Medical Sciences, Kerman, Iran	Researcher	Physiology
2007 - 2008	Physiology Research Center, Kerman University of Medical Sciences, Kerman, Iran	Executive Director	Physiology

2010 - 2011	World Health Organization, Tehran, Iran	National Professional Officer	Infectious Diseases - HIV/AIDS
2008 - present	HIV/STI Surveillance Research Center, and WHO Collaborating Center for HIV Surveillance, Kerman University of Medical Sciences, Kerman, Iran	Executive Committee Member, Senior Researcher, Education Manager	Public Health
2012 - 2014	Philip R. Lee Institute for Health Policy Studies, University of California, San Francisco	Postdoctoral Fellow	Global Health
2014 - 2015	Institute for Global Health Sciences, University of California, San Francisco	Research Specialist	Epidemiology and Biostatistics
2015 - present	Institute for Global Health Sciences, University of California, San Francisco	Assistant Professor	Epidemiology and Biostatistics
2017 - 2020	UCSF AIDS Research Institute (ARI)	Executive Committee Member	UCSF campus wide

OTHER POSITIONS HELD CONCURRENTLY

2008 - 2010	Scientific Writing Unit, Kerman University of Medical Sciences, Kerman, Iran	Director	
2007 - 2014	Surveillance Unit - Noncommunicable Disease Risk Factors, Ministry of Health, Tehran, Iran	Consultant and Analyst	
2006 - 2014	Kerman University of Medical Sciences, Kerman, Iran	Research Consultant	
2015 - 2018	Scientific Association for Public Health in Iran (SAPHIR)	Directors' Board Member, Education Manager	

HONORS AND AWARDS

2008	Bursary - XVIII IEA World Congress of Epidemiology, Porto Alegre, Brazil	International Epidemiology Association - IEA
2009	Elmer Villanueva Sponsorship Fund 3-year IEA Membership	International Epidemiology Association - IEA
2009	Fellowship 22nd Residential Summer Course in Epidemiology, Florence, Italy	European Epidemiology Federation
2009	NIHES/ESP Fellowship	Erasmus University

2010	Scholarship for summer school programme	Dundee University
2011	Scholarship	HIV Research Trust, Cheshire, United Kingdom
2012	Scholarship	International AIDS Conference, Washington DC, USA
2012	Scholarship for summer school programme - Statistics and Modeling in Infectious Diseases	University of Washington, Seattle, WA
2012	Top ranked paper - The 1st international and 5th AIDS congress, 22-25 Oct. 2012 Tehran, Iran	Iranian Research Center for HIV/AIDS
2012	Top Reviewer Award	Iranian Journal of Public Health
2013	Best Researcher Award	Kerman University of Medical Sciences
2014	Scholarship	International AIDS Conference, Melbourne, Australia
2015	Honorary Faculty	Kerman University of Medical Sciences, Kerman, Iran
2015	Scholarship	International AIDS Society Conference, Vancouver, Canada
2015	Best Addiction Research in Iran	9th Annual International Congress on Addiction Sciences, Tehran, Iran
2016	Scholarship	21st International AIDS Conference (AIDS 2016), Durban, South Africa
2018	Scholarship	22nd International AIDS Conference (AIDS 2018), Amsterdam, Netherlands

KEYWORDS/AREAS OF INTEREST

Injecting Drug Use, HIV Self-Testing and Social Media to Reach Underserved Key Populations, Social and Risk Networks, Infectious Disease Epidemiology, Bias analysis, HIV/AIDS, Public Health Surveillance, Behavioral Studies, HIV Modeling, Program Impact Assessment, Population Size Estimation, Epidemiology and Biostatistics, Epidemiology Training, Behavioral Risk Factors, Modeling of Latent Tuberculosis Infection

PROFESSIONAL ACTIVITIES

MEMBERSHIPS

2011 - present Regional Expert Group for HIV Surveillance – Eastern Mediterranean Region – World Health Organization, Core member

2011 - present International AIDS Society - Member

- 2009 - 2018 International Epidemiology Association
- 2014 - present The American Association for the Study of Liver Diseases (AASLD)

SERVICE TO PROFESSIONAL ORGANIZATIONS

- 2011 - present EMRO World Health Organization - Regional Expert Group for HIV Surveillance Consultant - Scientific Advisory Board
- 2015 - present Scientific Association for Public Health in Iran (SAPHIR) Directors' Board Member
- 2016 - present National Institute for Medical Research Development (NIMAD), Tehran, Iran Referee
- 2017 - 2020 UCSF AIDS Research Institute (ARI) Executive Committee Member

SERVICE TO PROFESSIONAL PUBLICATIONS

- 2013 - 2014 International Journal of Health Policy and Management - Editorial Board Member - Epidemiology Section
- 2010 - present Ad hoc referee for Iranian Journal of Public Health (8 papers in past 5 years), Journal AIDS and Behaviors (4 papers in 2 years), International Journal of Drug Policy (2 paper in 1 year), Iranian Red Crescent Medical Journal (1 paper), Nature Reviews Cardiology (1 paper), PLOS one 2 paper), International Journal of STD and AIDS (2 papers in 4 years), Hepatitis Monthly Journal (4 papers in 2 years), Iranian Journal of Epidemiology (3 papers in 4 years), Journal of Clinical Epidemiology (1 paper).

INVITED PRESENTATIONS - INTERNATIONAL

- 2010 The history of extra-marital sexual contacts among prisoners in Iran before their captivity, International AIDS Congress, Vienna Poster presenter
- 2010 Prevalence of HIV infection and its main determinants among Iranian prisoners in 2009; Bias analysis, International AIDS Congress, Vienna Poster presenter
- 2011 Bias reduction and precision in different types of control selection in analytical cross-sectional studies; a methodological paper. IEA congress Poster presenter
- 2012 HIV, HSV2 and Syphilis prevalence in female sex workers in Kerman in 2010; Using Respondent-Driven Sampling (XIX International AIDS Conference, Washington DC, USA) Poster presenter

2013	Visualizing Global Health Decisions: a web tool for HIV decision-making in resource-constrained settings; The Consortium of Universities for Global Health, Washington, DC, USA	Poster presenter
2014	Relative risk reduction as a metric to standardize effect size for public health interventions for translational research: methods and applications. Relative risk reduction as a metric to standardize effect size for public health. 20th International AIDS Conference, Melbourne, Australia	Poster presenter
2014	Which method(s) works to better collect high-risk behaviors among prisoners? A validation study of prisoners in Iran. 20th International AIDS Conference. Melbourne, Australia	Poster presenter
2014	AI-AIDS Conference, Center for Middle Eastern Studies, University of Chicago	A plenary session lecturer
2015	HIV incidence is low and stable in young adults who inject drugs in San Francisco: UFO study 2000-2014. 8th International AIDS Society (IAS) Conference on HIV Pathogenesis, Treatment and Prevention, Vancouver, Canada	Poster presenter
2015	Estimating the size of men who have sex with men (MSM) using modified capture-recapture method based on network sampling in the capital city of Georgia in 2014. 8th International AIDS Society (IAS) Conference on HIV Pathogenesis, Treatment and Prevention, Vancouver, Canada	Oral presenter
2015	The effect of facility- and outreach-based needle and syringe programs on injection risk behaviors; A case study of People Who Inject Drugs in Kermanshah, Iran. 9th Annual International Congress on Addiction Sciences, Tehran, Iran	Oral presenter
2015	Third meeting of the WHO collaborating centers in the Eastern Mediterranean Region, Cairo, Egypt, 29–30 April 2015.	A plenary session lecturer
2018	Iran's first symposium of "Evidence Based Dentistry, 25-27 April, Kerman, Iran	A plenary session lecturer
2018	Trend in HIV incidence and prevalence in men who have sex with men in Georgia, 2010 to 2015, 22nd International AIDS Conference, 23-27 July 2018, Amsterdam, Netherlands	Poster presenter

2018	Estimating latent tuberculosis infection prevalence in the United States: Back-calculation from active TB cases, International TB 2018 Conference, 22 July 2018, Amsterdam, Netherlands	Poster presenter
2018	Mapping and Population Size Estimates of Street Children in Six Cities with Extrapolation to National Level in Iran, 22nd International AIDS Conference, 23-27 July 2018, Amsterdam, Netherlands	Poster presenter
2018	Crystal methamphetamine use and its associated factors in female sex worker in Iran, 2015, 22nd International AIDS Conference, 23-27 July 2018, Amsterdam, Netherlands	Poster presenter
2018	Strengthening M&E capacity for tracking the 90-90-90 cascades for all and key populations; lessons learned from Kerman HIV-Friendly City Initiative. Second Annual Monitoring & Evaluation Best Practice Conference, 24th – 27th September, 2018, Dodoma, Tanzania	A plenary session lecturer
2018	12th Iranian International Clinical Microbiology Congress, 16-18 October 2018, Kerman, Iran	A plenary session lecturer
2019	Peer navigation improves HIV care and viral suppression outcomes among South African men who have sex with men; Results from a Randomized Controlled Trial, IAS 2019	Poster presenter

INVITED PRESENTATIONS - NATIONAL

2017	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention Centers for Disease Control and Prevention, November 1st 2017	Presenter
2018	National TB Controller's Conference, 22 May 2018, Palm Springs, CA	A plenary session lecturer

INVITED PRESENTATIONS - REGIONAL AND OTHER INVITED PRESENTATIONS

2012	Bias analysis to improve monitoring the HIV epidemic and its response; A case study of female sex workers in Iran, Center for AIDS Prevention Studies (CAPS), UCSF (plenary talk)	Speaker
2013	Network Scale-Up to Estimate the Population Size of High-Risk Groups for HIV, Center for AIDS Prevention Studies (CAPS), UCSF	Speaker
2014	Review of Behavioral Economics Tools for GH2035 Grand Convergence, 2nd Annual Global Health Economics Colloquium, UCSF	Speaker - panel 5: Behavioral Economics

2015	HIV/AIDS Research in the Middle East: UCSF Studies among Sex Workers, Trans Women, PWID, and Prisoners. CAPS Town Hall, UCSF	Plenary talk
2018	Racial and sexual orientation disparities in HIV incidence among young adults who inject drugs in San Francisco, Bay Area HIV Health Disparities Symposium, Berkley, USA	Poster presenter

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT ACTIVITIES

2015	Data Analysis and Statistical Inference, Online Course, Coursera	
2015	Advanced Approaches to the Analysis of Observational Data, BIOSTAT 215, UCSF	
2018	Cost-Effectiveness Analysis in Medicine and Public Health, UCSF	
2018	CFAR Mentoring the Mentors 2018	

SERVICE AT OTHER UNIVERSITIES

2008 - present	Coordinate training activities and post-graduate programs at WHO Collaborating Center, the Regional Knowledge Hub for HIV Surveillance	Kerman University of Medical Sciences, Kerman, Iran
2015 - present	Plan and monitor the Scientific Association for Public Health in Iran (SAPHIR) collaborative works - a director's board member	USA and internationally
2016 - present	Analysis the HIV continuum of care cascade at subnational level, CDC, Iran	CDC, Iran
2016 - 2016	Establish a new coordinating site for the International Collaboration of Incident HIV and HCV in Injecting Cohorts" (InC3) study.	New Mexico University
2014 - 2014	San Francisco Department of Public Health - HIV Section (RDS trend analysis)	Consultant
2015 - 2016	San Francisco Department of Public Health - HIV Section (Starfish sampling method and analysis)	Consultant
2016 - present	End HepC SF, Research and Surveillance work group, San Francisco Department of Public Health, San Francisco, CA	Member

TEACHING AND MENTORING

TEACHING SUMMARY

My main teaching activities include teaching study designs and methods to evaluate public health intervention at national and global scale, sampling and analysis methods for bio-behavioral surveys of hard-to-reach populations at most risk for HIV including venue- and network-based recruitment techniques.

I've been developing curriculums, course materials and also teaching HIV surveillance, population size estimation techniques, data analysis, scientific writing, triangulation, and HIV cascade analysis in several training courses sponsored by World Health Organization, UNICEF, CDC, and NIMAD (NIH Iran) and UCSF over the past 10 years.

I also teach several courses at UCSF:

2016 – present	Global Health Strategic Information, Course Director
2012 – present	ITAPS: International Traineeships in AIDS Prevention Studies (Mentor since 2012, faculty member since 2017)
2016 – present	Epidemiology/Evidence Based Medicine (EEBM) (Group exercise facilitator in 2016-19)
2017	Quantitative Measurement and Theory, Course Director
2019	UCSF Summer of Designing Clinical Research

Short Training Courses

2009 - 2015	International training courses and workshops on different topics on HIV surveillance (8 in past 5 years)
2014 - present	ITAPS program at the institute of Global Health Sciences, UCSF
2015	HIV Cascade Analysis Workshop, a collaborating work between GHS/UCSF, Zagreb and Kerman WHO CCs that funded by WHO, 30 October to 2 November 2015, Beirut, Lebanon
2016	Training Workshop for Street Children Survey 2016, April 19-21, 2016, Tehran, Iran
2016	Introduction to Surveillance Surveys for Most at Risk Populations, April 17-18, 2016, Tehran, Iran
2016 - 2018	Practicing NIH-standard proposal writing for clinical, epidemiological, and health services/policy/economics research (4 in past 2 years)
2017 - 2018	Clear and Successful Scientific Writing (7 in past 2 years)

MENTORING SUMMARY

Basically, my mentorships roles are mostly on refine the study questions/objectives, choose the appropriate approaches and analysis, and do the analysis properly. I have worked with more than 35 mentees from multiple countries (Iran, Brazil, Georgia, Tanzania, USA, South Africa, Uganda, Australia, Canada, Bhutan, Afghanistan) to refine their study questions, ensure the methods are appropriate and data analysis approaches are suitable. In addition, I review, comment and edit the manuscripts and help my mentees to successfully submit and publish their reach findings in peer-reviewed journals. I have also mentored several PhD, MD, and masters students from the United States (2 PhDs, 2 MDs, 1 Master), Canada (1 PhD, 1 Master), Australia (2 PhDs), and Iran (3 PhDs, 12 Masters).

RESEARCH AND CREATIVE ACTIVITIES

Measure and adjust bias in behavioral surveys: Under reporting stigmatized behaviors has been challenging to prevention research. I applied Bayesian techniques to consider prior information on under-reporting bias to adjust the crude biased estimates on HIV risk behavior. The model and analysis methods I developed are available through the journal publication and on the JECH journal website as a user tool. [<https://www.ncbi.nlm.nih.gov/pubmed/23814269>]

I also applied multiple direct and in-direct methods to measure risk behaviors among prisoners. [<https://www.ncbi.nlm.nih.gov/pubmed/30078913>]

Qualitative work on new technologies to study social and risk networks: An additional line of research in my areas of interest is to use qualitative and quantitative methods to adapt new technology to public health research. As one example, I developed methods to use Global Positioning Systems (GPS) to measure social interactions and spatial movements of people who inject drugs to study HIV and access to prevention services. [<https://www.ncbi.nlm.nih.gov/pubmed/24990173/>]

Cross-sectional studies and behavioral surveys: For nearly ten years, I have conducted research on the prevention of HIV among female sex workers (FSW), people who inject drugs (PWID), and prisoners in Iran. I also work with Curatio International Foundation Institute in Georgia to track the upraising HIV epidemic among men who have sex with men in the country. [<https://www.ncbi.nlm.nih.gov/pubmed/30496204>]

SELFii study (Randomized Controlled Trial): In collaboration with the National AIDS Program and Iranian Research Centre for HIV/AIDS (IRCHA) in Tehran, and Infectious Disease Research Center (IDRC) in Isfahan, I (as PI) and my team (11 members) have developed new and highly effective ways to provide HIV self-testing to FSW and their clients using peer leaders and social media. This innovative program is applicable to Iran, the wider region, and the many locations worldwide where such women are severely stigmatized and hard-to-reach. [<http://www.selfii.ir>, <http://en.irct.ir/trial/10083>]

UFO and cohort study: I have the opportunity to work on the UFO Study, a prospective observational cohort study of young injectors at risk of and with newly acquired HCV infection. In the context of this study, I am a collaborating scientist, with opportunities for data analyses and publications of scientific research as well as for new projects which may involve UFO Study cohort participants. [<https://ufostudy.ucsf.edu>]
[<https://www.ncbi.nlm.nih.gov/pubmed/29168067>]

Rostam cohort study: Using the UFO tools and approaches, I have developed the first cohort of people who inject drugs in Kerman, Iran - a study that funded by UCSF - CFAR & ARI, Iran Ministry of Health, and under consideration for additional funding for expansion with WHO and NIMAD (NIH of Iran). [<http://en.irct.ir/trial/31356>]

Modeling and cost-effectiveness studies: In Consortium for the Assessment of Prevention Economics (CAPE) project (PI: Dr. Kahn), I am working with Dr. Phillip Coffin and a team of three researchers to evaluate the current and trend in the prevalence of opioids use and injection in the United States up 2050. Such figures are being used to model HIV & HCV Transmission and Prevention among PWID in the United States. My other project in CAPE is working with Drs. Priya Shete and four researchers (including one from San Diego) and CDC and CDPH team from TB department to develop and validate a back-calculation model to estimate Latent Tuberculosis Infection prevalence in the United States.

Mapping and population size estimation studies: I am working with Afghanistan UNDP and Ministry of Health to conduct mapping and size estimation of three key populations including people who inject drugs (PWID) in seven cities, men with high risk behaviors (MHRB) in four cities and women with high-risk behaviors (WHRB) in three cities in Afghanistan. The results will be used for better planning and advocacy for the needs of these underserved minority populations in the country.

RESEARCH AWARDS - CURRENT

1. U38PS004649	Co-Investigator		Kahn (PI)
CDC-USA		09/01/2014	09/30/2019
Consortium for the Assessment of Prevention Economics			
To conduct economic analyses including costing, cost-effectiveness analysis, cost-benefit analysis, resource allocation, and return on investment on five different disease including HIV/HCV and TB.			
Develop models, data collection tools, data analysis, draft and submit reports and manuscripts.			
2. 5U2GGH000977	Co-Investigator		Rutherford (PI)
CDC		04/01/2017	04/01/2019
Ukraine - Surveillance Technical Support			
The University of California, San Francisco, as the prime for this award, will provide technical assistance to surveillance activities in Ukraine through close collaboration and communications with CDC and sub contractual partners.			
My technical assistance is to generate and use of strategic information to support the identification and successful engagement and retention of HIV-infected individuals in care and treatment.			
3. P30AI027763	PI		Mirzazadeh (PI)
AIDS Research Institute (ARI)		08/01/2018	03/30/2019
Behaviors and new infections of HIV and HCV in a cohort of people who inject drugs in Iran; Rostam study			
Assess the behaviors, new infections of HIV and HCV, and feasibility and impact of one-stop shop community-based HCV treatment model among men and women who inject drugs in Iran.			
Lead the study team			
4. NIMAD957506	PI		Mirzazadeh (PI)
National Institute for Medical Research Development		04/14/2018	07/07/2019
Feasibility and acceptability of HIV self-testing following offering of monetary incentive among female sex workers and their clients and partners in two cities in Iran: The iTEST study			
In this pilot trial, the effect of low-value monetary incentives on HIV self-test uptake and linkage to care will be assessed among FSW, clients and partners in Tehran and Isfahan			

Leads the study team, overall scientific oversight for ethics, design, training, implementation and analysis

5. EZAMPSE UNDP/GF Project Population Size Estimation and Mapping in Seven Cities in Afghanistan	PI	07/01/2018	Mirzazadeh (PI) 08/31/2019
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In this study, we conduct mapping and size estimation of three key populations including people who inject drugs (PWID) in seven cities, men with high risk behaviors (MHRB) in four cities and women with high-risk behaviors (WHRB) in three cities in Afghanistan, synthesize and extrapolate the findings to generate sub-national and national population size estimates of the three key populations, and define the gaps in current services and provide guidance for services needed and their locations

I am responsible for providing overall direction for the project, overseeing all aspects of the study, including protocol development, training and report writing.

6. R25 MH064712 NIMH International Traineeships in AIDS Prevention Studies (ITAPS)	Mentor, Faculty	10/01/2014	Rutherford (PI) 09/30/2019
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The International Traineeships in AIDS Prevention Studies program (ITAPS) is a training program for international scientists. Its mission is to provide training and conduct research on the prevention of HIV transmission in low- and middle-income countries.

As an ITAPS mentor and faculty, I nominate mid-career scientists from his research networks and serve as a faculty mentor to scholars from Iran. I also assist in teaching.

RESEARCH AWARDS - PAST

1. P30MH062246 National Institute of Mental Health New technology to measure spatial/social networks of injection drug users	PI	11/21/2013	Mirzazadeh (PI) 12/31/2014
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The goal of this project was to pilot test the new technology (GPS/RFID) to measure spatial movement and social network interactions among injection drug users in San Francisco: ethics, feasibility, acceptability, and prevention research implications

PI and lead the team for data collection, analysis and publication.

2. 3043178 UNDP, CDC Iran 2nd round of the national survey among female sex workers in 13 cities in Iran including behavioral, serology for HIV and four STI germs and population size estimation	PI	12/22/2014	Mirzazadeh (PI) 09/15/2015
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3. 117699F UNICEF	Consultant	08/01/2014	12/31/2014
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HIV Integrated Bio-Behavioral Surveillance Survey
among Street Children

To obtain baseline estimates of HIV sero-prevalence and related risk behaviors among most at risk -street- children in urban areas of Iran, and to establish a surveillance approach to track health conditions among most at risk children over time.

I provided technical assistant to design and implement the study using a new sampling method, called starfish sampling.

4.	N GEO-H-GPIC Global Fund Population Size Estimation of Men Who Have Sex with Men in Georgia	Consultant	03/01/2014	06/30/2014
5.	2013 355012 UNAIDS Assessment of Impact of Harm Reduction Interventions among People Who Inject Drugs in Dhaka, Bangladesh	Consultant	08/01/2013	09/15/2013
6.	2012/233547-0 World Health Organization Develop a technique for estimating reliable network sizes in EMR countries	PI	04/17/2012	07/30/2012
7.	003/10 UNDP, Yemen HIV Prevalence and Related Risk Behaviors in Men Who Have Sex with Men, Yemen	PI	12/01/2010	05/30/2011
8.	APW201266067 World Health Organization Health and economic burden of Antimicrobial Resistance in the countries of the Eastern Mediterranean Region of WHO	PI	06/27/2015	Mirzazadeh (PI) 12/01/2015
9.	R01-DA32056-01A1 NIDA International Collaborative of incident HIV and HCV in injecting populations (InC3) InC3 is a international multi-cohort project of pooled biological and behavioral data from 9 cohorts of injection drug users (IDU). The overall study objective is to conduct studies of risk, incidence, and the natural history of HIV and hepatitis C (HCV) infection among IDU using a merged multi-country dataset from 9 prospective studies. The collaboration brings together researchers with expertise in epidemiology, biostatistics, clinical and behavioral sciences, virology and immunology to investigate research questions relevant to HIV and HCV infections.	Project Director	05/15/2011	Page (PI) 09/30/2016

As the Project Director I was involved in multiple duties including keeping track of research concept proposals, multi-site longitudinal cohort data analysis, papers in preparation, and abstract and presentations from the project.

10. RAP Grant	PI		Mirzazadeh (PI)
Pilot Award Program in HIV/AIDS, Center for AIDS Research		02/01/2016	01/31/2017
<p>Designing and pilot testing methods for a cohort study of people who inject drugs for future HIV and HCV prevention research in Iran</p> <p>This proposal aimed to adapt a set of recruitment and retention tools successful in a long running study of PWID in San Francisco (the UFO Study) (www.ufomodel.com) to the Iranian context and pilot test feasibility and acceptability of recruiting and retaining a prospective research study of PWID in Kerman, Iran.</p> <p>Leads the study team, overall scientific oversight for ethics, design, training, implementation, analysis and dissemination.</p>			
11. 5U2GGH000977-03	Co-Investigator		Rutherford (PI)
CDC		04/01/2016	03/31/2017
<p>Burma - Surveillance Technical Support</p> <p>The University of California, San Francisco, as the prime for this award, will provide technical assistance to surveillance activities in Burma through close collaboration and communications with CDC and subcontractual partners.</p> <p>My technical assistance was to generate and use of strategic information to support the identification and successful engagement and retention of HIV-infected individuals in care and treatment.</p>			
12. MMEPZSS95F	Consultant		Shade (PI)
CDC		03/31/2019	08/31/2018
<p>Mozambique Surveillance and M&E Project</p> <p>The UCSF Institute of Global Health Sciences / Global Strategic Information, as the prime for this award, will provide technical assistance to surveillance activities in Mozambique through close collaboration and communications with CDC and subcontractual partners.</p> <p>My technical assistance was to do the cascade analysis and use of strategic information to support HIV response in the country.</p>			

PEER REVIEWED PUBLICATIONS

1. Moazenzadeh M, Mirzazadeh A. A method for better estimating blood pressure in hypertensive patients. *Iranian Heart Journal*. 2003; 4(4): 25-30
2. AA Haghdoost, A Mirzazadeh. Familial aggregation of coronary heart disease risk factors in Kerman province. *Iranian Journal of Epidemiology*, 2006. 2(1):59-64
3. A Gaffari Nejad, P Salari, A Mirzazadeh, Study on breaking bad news to patients among physicians of Kerman university of medical sciences, *Quarterly Journal of Hormozgan University of Medical Sciences*, Summer 2006, 10(2): 179-84
4. Mirzazadeh A, Haghdoost AA, Doostmohammadi P, Estimating the Time Trend of Adjusted Incidence of Opioid Dependency and Multiple Factors Related to the Lag Time: Backward Calculation Method; Kerman; *Journal of Kerman University of Medical Sciences*, 2006; 13(2): 164-172

5. Ershad Sarabi R, Mirzazadeh A. The Rate of Using Internet and Full-text Databases by Academic Members referring to the IT Centre of Kerman University of Medical Sciences. *Strides Dev Med Educ.* 2007; 4 (1) :57-63
6. Haghdoost AA, Kawaguchi L, Mirzazadeh A, Rashidi H, Sarafinejad A, Baniasadi AR, Davies C, Using GIS in Explaining Spatial Distribution of Brucellosis in an Endemic District in Iran. *Iranian J of Public Health* 2007, 36(1): 27-34
7. Haghdoost, A. A., Sadeghirad, B., Hajarizadeh, B., & Mirzazadeh, A. The application of systematic review and meta-analysis concepts in summarizing the findings of observational studies. *Iranian Journal of Psychiatry.* 2007; 2(4), 132-136.
8. Sepehri G, Talebizadeh N, Mirzazadeh A, Mohsenbeigi M. The patterns of antihypertensive drug prescription by cardiologists in Kerman province of Iran, 2006. *Pharmacoepidemiol Drug Saf.* 2008 Feb; 17(2):180-5. PMID: 18001003
9. S Navadeh, M Moazenzadeh, A Mirzazadeh, Driving environment in Iran increases blood pressure even in healthy taxi drivers, *JRMS* 2008; 13(6):1-7
10. AA Haghdoost, A Mirzazadeh, S Alikhani, Secular Trend of Height Variations among Iranian Population Born between 1940 and 1984, *Iranian Journal of Public Health*, Vol. 37, No.1, 2008, pp.1-7
11. Mirzazadeh A, Baradaran HR, Haghdoost AA, Salari P. Related factors to disparity of diabetes care in Iran. *Med Sci Monit.* 2009 May; 15(5):PH32-6. PMID: 19396047
12. Noushin Talebizadeh, Aliakbar Haghdoost, Ali Mirzazadeh, An epidemiological model (Markov Chain) of cardiovascular disease in Iran, *Payesh Journal* 2009 Vol 8 (163-170)
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1. The Female Sex Workers National Survey Report 2015, Tehran, Iran
2. A guide on how to conduct trend analysis the data collected by Respondent Driven Sampling
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4. Course Manual - A training course on HIV Case Reporting Surveillance
5. Course Manual - A training course on sampling methods and analysis for surveys among populations at increased risk of HIV
6. Course Manual - A training course on Facility Based HIV Surveillance
7. Course Manual - A training course on Population Size Estimation
8. Course Manual - A Training course on new sampling methods for surveys among populations at increased risk of HIV

PATENTS ISSUED OR PENDING

The Anchored Multiplier calculator synthesizes multiple estimates of the size of a population into a single “consensus” estimate. The Anchored Multiplier uses a Bayesian modeling framework to combine empirical estimates with a prior belief (e.g., an estimate from a stakeholder, a previous study or extrapolation from the literature). Data input can take the form of raw numbers or population percentages. The calculator will fit the data input to a beta probability distribution that reflects the certainty (i.e. the strength) of the data point. Stronger data points (those with narrower confidence intervals) will have greater influence on the final estimate than weaker data points (those with wider confidence intervals). Copyright to separate contributions to collective work created by Paul Wesson, Ali Mirzazadeh, and Willi McFarland. [<http://159.203.67.158/>]

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