2ND ANNUAL RESEARCH SYMPOSIUM

Using Technology to Advance Injury Prevention Surveillance, Interventions, and Training

November 12, 2021

Virtual Event
@UMInjuryCenter
#IPC2021
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Live stream, links to abstract sessions, and symposium materials can be found online at http://injurycenter.umich.edu/2021-2nd-annual-research-symposium/
We want to thank you for joining our Second Annual Virtual Injury Prevention Center Research Symposium. The theme of our symposium is “Using Technology to Advance Injury Prevention Surveillance, Interventions, and Training.”

Today’s symposium will feature keynote speaker Dr. Kenneth Resnicow, who is the Irwin Rosenstock Professor of Health Behavior and Health Education at the University of Michigan School of Public Health and Professor of Pediatrics at the University of Michigan Medical School. The keynote address will highlight the advances in content and function of digital interventions and its application to Injury Prevention.

The flash science and abstract sessions will emphasize on how technology can be used in injury prevention as well as other aspects of injury prevention on various topics such as opioid and overdose, suicide, concussion, older adult falls, violence, motor vehicle crash, adverse childhood experiences (ACEs) and other emerging areas.

We encourage you to ask questions during the symposium to learn more about the injury prevention science and to tweet about the presentations and conversations today using the hashtag #IPC2021.

Thank you again for attending!

Dr. Patrick Carter  
Director

Dr. Maureen Walton  
Senior Associate Director

Dr. Rebecca Cunningham  
Senior Advisor
AGENDA

12:30-12:45 pm Welcome and Opening Remarks
Patrick Carter, MD--Department of Emergency Medicine, University of Michigan Medical School

KEYNOTE ADDRESS

12:45-1:15 pm Advances in Content and Function of Digital Interventions: Application to Injury Prevention
Kenneth Resnicow, PhD--Department of Health Behavior and Health Education, University of Michigan School of Public Health

FLASH SCIENCE SESSIONS

1:15-1:35 pm 1. Use of Sensors to Understand Concussions
Steve Broglio, PhD, ATC--University of Michigan School of Kinesiology

1:35-1:55 pm 2. Automated Loss of Balance Identification in Older Adults Using Wearable Sensors
Lauro Ojeda, MS--Department of Mechanical Engineering, University of Michigan College of Engineering

1:55-2:15 pm 3. Using Technology to Augment Brief Interventions for Adolescents at Elevated Suicide Risk
Ewa Czyz, PhD--Department of Psychiatry, University of Michigan Medical School

2:15-2:25 pm Break

Allison Lin, MD--Department of Psychiatry, University of Michigan Medical School; Center for Clinical Management Research, VA Ann Arbor Healthcare System

2:45-3:05 pm 5. Virtual Interventions for Preventing Opioid Use and Misuse Among Adolescents and Young Adults
Erin Bonar, PhD--Department of Psychiatry, University of Michigan Medical School

3:05-3:25 pm 6. Creating a ‘choose your topic’ Massive Open Online Course: An Innovative and Flexible Approach to Delivering Injury Prevention Education
Andrew Hashikawa, MD--Department of Emergency Medicine, University of Michigan Medical School

3:25-3:40 pm Break

CONCURRENT ABSTRACT SESSIONS & CLOSING REMARKS

3:40-5:00 pm Concurrent Abstract Sessions

- Session 1: Opioid and Overdose
  - Facilitator: Donovan Maust, MD--Department of Psychiatry, University of Michigan Medical School; Center for Clinical Management Research, VA Ann Arbor Healthcare System

- Session 2: Suicide
  - Facilitator: Cheryl King, PhD--Department of Psychiatry, University of Michigan Medical School

- Session 3: Violence and ACEs
  - Facilitator: Justin Heinze, PhD--Department of Health Behavior and Health Education, University of Michigan School of Public Health

- Session 4: Cross-cutting Injury Prevention
  - Facilitator: Sarah Stoddard, PhD--University of Michigan School of Nursing

Closing Remarks
Dr. Kenneth Resnicow is the Irwin Rosenstock Professor of Health Behavior and Health Education at University of Michigan School of Public Health and Professor of Pediatrics in the School of Medicine, the Associate Director for Community Engagement and Health Disparities Research at the University of Michigan Rogel Cancer Center, and Chief Scientific Lead at the University’s Center for Health Communications Research. His work over the past 30 years has focused on designing and evaluating behavior change programs for a wide range of health behaviors including smoking cessation, breast cancer treatment, genetic testing, COVID-19 vaccination, cancer screening, car safety, weight control, diet and physical activity, effective parenting, medical adherence, organ donation, substance use, youth violence and risk behaviors, gun safety, and accrual into clinical trials. Much of his work has involved ethnic/racial and underserved populations particularly African Americans, Native Alaskans, Latina/Hispanic, and Middle Eastern North Africans. Examples of current and prior studies include: an NCI Moonshot Study to increase cancer genetic testing through Motivational Interviewing and an eHealth application, Eat for Life, an NCI-funded church-based intervention to increase fruit and vegetable intake using Motivational Interviewing and culturally-tailored print/video; Healthy Body Healthy Spirit, an NHLBI-funded intervention to increase physical activity and fruit and vegetable intake among African Americans recruited through Black churches using MI and culturally-tailored print/video; GO GIRLS, an NHLBI-funded study to develop an obesity prevention program for overweight teens using MI; an NIH-funded study to prevent cigarette smoking among South African youth, an NIH-funded study, BMI2, to treat pediatric obesity using Motivational Interviewing working with the American Academy of Pediatrics; BMI3, an NIH study to disseminate the BMI2 program in pediatric practices; and DOT-funded studies in hair salons, churches, and Greek organizations to increase organ donation among African Americans. He has published over 340 peer-reviewed articles and book chapters and has served on numerous advisory panels and review groups. He has been PI or Co-Investigator on over 80 NIH and other externally funded grants. In 2019 he joined the National Council for the National Institute on Minority Health and Health Disparities (NIH).

In recent years, his work has increasingly entailed novel behavioral tailoring and the incorporation of e-Health technology to enhance the impact of health messages. Examples of these include; an SMS-based smoking cessation program for Middle Eastern and North African adults, a culturally-tailored fruit and vegetable intervention for African Americans, a tailored colorectal cancer screening intervention for African Americans, a violence prevention App for high risk youth in Flint Michigan, weight loss and disease management Apps for members of Aetna Inc, and a smoking cessation App for pregnant smokers in Romania. He has also worked on several studies using community health workers, including current work in faith-based organizations domestically, and Cape Town South Africa and Sao Paulo, Brazil globally. Much of his work, both his interpersonal and electronic interventions, is based on Motivational Interviewing and is influenced by Chaos Theory and Self-Determination Theory.

He has collaborated with researchers in over 25 countries including; South Africa, Australia, Mexico, Brazil, Portugal, Romania, the Ukraine, and the Netherlands and has trained over 1000 health professionals in Motivational Interviewing in both academic and health care delivery settings.
SPEAKERS

FLASH SCIENCE SPEAKERS

STEVE BROGLIO, PHD, ATC

Dr. Broglio is a Professor of Kinesiology, Neurology (adjunct), and Physical Medicine and Rehabilitation (adjunct) at the University of Michigan and serves as the Concussion Content Lead at the U-M Injury Prevention Center. Dr. Broglio completed his training at the University of Georgia, took his first faculty position at the University of Illinois at Urbana-Champaign, and has been at the University of Michigan since 2011. At Michigan, Dr. Broglio is the Director of the Michigan Concussion Center and the NeuroTrauma Research Laboratory where he oversees Center operations and conducts multi-disciplinary research aimed at fundamental questions on concussion prevention, identification, diagnosis, management, and outcomes.

LAURO OJEDA, MS

Lauro Ojeda is a Research Scientist at the University of Michigan. He studied Electrical Engineering at the Army Polytechnic School in Quito-Ecuador. He has over 20 years of experience in the fields of inertial sensing, sensor data fusion, estimation techniques, Kalman filtering, biomechanics, and gait analysis. His work in these fields has been the basis of current unrestricitive gait analysis research, conducted in collaboration with several departments at the University of Michigan and other research centers across the world. He developed identification and reconstruction techniques capable of providing the first biomechanical measurements and reconstruction of loss of balance events as they occur in ordinary life.

EWA CZYZ, PHD

Dr. Ewa Czyz is an Assistant Professor in the Department of Psychiatry at the University of Michigan. Dr. Czyz's research interests focus on the questions of how we can best identify and intervene with youth who are at risk for suicidal behavior. She is especially interested in intervention development for youth at elevated suicide risk, with particular emphasis on applying adaptive interventions to inform provision of tailored support as well as integration of technology (such as text messages) to augment suicide-specific interventions. Her research has been funded by the National Institute of Mental Health, the American Foundation for Suicide Prevention, and the Michigan Institute for Clinical and Health Research.
ALLISON LIN, MD

Dr. Allison Lin is an addiction psychiatrist and Assistant Professor and Director of the Addiction Psychiatry Fellowship in the Department of Psychiatry at University of Michigan as well as a Research Investigator at the VA Arbor Center for Clinical Management Research. She is also a core research project principal investigator at the U-M Injury Prevention Center. Dr. Lin’s research focuses on developing ways to improve quality of care and access to treatment for patients with opioid and other substance use disorders in order to prevent harmful outcomes including overdose. Her research also includes a focus on developing telehealth models of care to increase substance use disorder treatment.

ERIN BONAR, PHD

Dr. Erin Bonar completed her PhD at Bowling Green State University in clinical psychology. She is a licensed clinical psychologist and an Associate Professor in the Addiction Center within the Department of Psychiatry at the University of Michigan. She is a content lead for the U-M Injury Prevention Center where she also is a member of the Internal Advisory Committee. Dr. Bonar’s research focuses on using novel technology-driven solutions to prevent negative outcomes associated with substance use among youth and adults.

ANDREW HASHIKAWA, MD

Dr. Andrew Hashikawa is an Associate Professor in the Departments of Emergency Medicine and Pediatrics at Michigan Medicine (Ann Arbor, MI). Dr. Hashikawa is fellowship-trained in pediatric emergency medicine and epidemiology. He was recently appointed to the American Academy of Pediatrics PediaLink Editorial Board. He also serves as the executive committee member on the American Academy of Pediatrics Council of Early Childhood and was the lead author in creating online injury prevention training for preschool teachers and early learning providers nationally on the Pedialink e-learning platform. As a U-M Injury Prevention Center Core Faculty and the UM-IPC lead for online medical education, he helped lead the creation of the “Injury Prevention for Children and Teens” course on edX. He was also the co-lead on the “Hearing Loss in Children” course hosted on Coursera. He has substantial experience in health and safety research collaborating with child care centers and summer camps nationally.
We invite you to apply to join our diverse injury prevention community of researchers and practitioners.

The designation of a U-M IPC Member is available to anyone with an interest in injury prevention work. Injury prevention includes, but is not limited to, the prevention of:

- Opioid overdose and misuse
- Sexual violence
- Youth violence
- Intimate Partner Violence
- Concussion and TBIs
- Motor vehicle crashes and transportation injuries
- Suicides
- Older Adult Falls
- ACEs and child maltreatment

Benefits of membership include **access to recent communications** (newsletter, funding opportunities, upcoming events, latest research and news, faculty awards), **invitations** to all Center education events, **opportunities** to apply for training opportunities (such as internships), and **recognition** (name on our website as a member, ability to list the University of Michigan Injury Prevention Center membership on your CV, resume or biosketch)

Fill out the membership form here: injurycenter.umich.edu/about-us/membership/becoming-a-member/

OR

Use the QR code below to access the form.
THANK YOU!

On behalf of everyone at the University of Michigan Injury Prevention Center:

Thank you to all of the staff, hosts, presenters, session facilitators, and timekeepers for helping to make this symposium possible.

Materials and recordings from this symposium are archived at http://injurycenter.umich.edu/2021-2nd-annual-research-symposium/