

# Training Mechanisms for Injury and Violence Prevention: Fellowships and Internships



Epidemic Intelligence Service



Project: IMHOTEP



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*Deputy Associate Director for Science  
National Center for Injury Prevention and Control  
Centers for Disease Control and Prevention*

# Objectives

- Discuss training and fellowship/internship opportunities in injury and violence prevention.
  - CDC
  - ICRCs



# **For a Global Generation, Public Health Is a Hot Field**

*By David Brown*

Washington Post Staff Writer

Friday, September 19, 2008; Page A01

**Courses in epidemiology, public health and global health -- three subjects that were not offered by most colleges a generation ago -- are hot classes on campuses these days.**

**They are drawing undergraduates to lecture halls in record numbers, prompting a scramble by colleges to hire faculty and import ready-made courses. Schools that have taught the subjects for years have expanded their offerings in response to surging demand.**

**At Johns Hopkins, which has offered an undergraduate major in "public health studies" since 1976, there were 159 students studying the field 10 years ago; this year, there are 311 majors.**

Centers for Disease Control and Prevention

# **Internship and Fellowship Opportunities**

# Student Internships and Fellowships

Your Interest	Enrollment Status	Our Program
Environmental health	<ul style="list-style-type: none"> <li>Undergraduate student</li> </ul>	<a href="#"><u>Collegiate Leaders in Environmental Health</u></a> 10-week summer internship for students interested in a career in environmental health, Open to rising juniors and rising seniors majoring in environmental fields, such as, chemistry, engineering, biology, or ecology, or other environmental studies.
	<ul style="list-style-type: none"> <li>Undergraduate student</li> <li>Graduate student</li> </ul>	<a href="#"><u>Summer Program in Environmental Health (SUPEH)</u></a> 10-week summer program for students majoring in environmental health at an Accredited Environmental Health Academic Program (AEHAP) participating school.
	<ul style="list-style-type: none"> <li>Graduate student</li> </ul>	<a href="#"><u>CDC Summer Graduate Environmental Health Internship (GEH)</u></a> 10-week summer internship for graduate students interested in a career in environmental health.
Epidemiology	<ul style="list-style-type: none"> <li>Medical student</li> <li>Veterinary student</li> </ul>	<a href="#"><u>Epidemiology Elective Program for Senior Medical and Veterinary Students</u></a> 6 to 8-week introduction to applied epidemiology.
	<ul style="list-style-type: none"> <li>Medical student</li> </ul>	<a href="#"><u>The CDC Experience Applied Epidemiology Fellowship</u></a> 1-year training program in applied epidemiology for third or fourth year medical students.
Global health	<ul style="list-style-type: none"> <li>Medical student</li> <li>Veterinary student</li> </ul>	<a href="#"><u>CDC-Hubert Global Health Fellowship</u></a> 6- to 12-week introduction to preventive medicine, public health, and applied epidemiology in an international setting; apply in your second or third year.
Minority health	<ul style="list-style-type: none"> <li>Undergraduate students</li> <li>Recent graduates</li> </ul>	<a href="#"><u>Project IMHOTEP Summer Research Internship Program</u></a>  11-week training program for juniors, seniors, and recent graduates interested in minority health, biostatistics, epidemiology, occupational safety and health, or the health sciences.
Occupational health	<ul style="list-style-type: none"> <li>Undergraduate students</li> <li>Graduate students</li> </ul>	<a href="#"><u>Occupational Health Internship Program</u></a>  Summer internship for graduate and undergraduate students interested in occupational health. Students work with unions or social justice organizations and gain hands-on experience with workplace safety and health.

# Career Training Fellowships

Your Interest	Your Background	Our Program
<b>Computer science and information systems</b>	<ul style="list-style-type: none"> <li>• Master's degree</li> <li>• Doctoral degree</li> </ul>	<a href="#"><b>Public Health Informatics Fellowship Program</b></a> 2-year training program in the application of computer science, information science, and technology related to public health
<b>Epidemiology</b>	<ul style="list-style-type: none"> <li>• Physician</li> <li>• Veterinarian</li> <li>• Doctoral degree</li> <li>• Health professional</li> </ul>	<a href="#"><b>Epidemic Intelligence Service (EIS)</b></a> 2-year program of training and service in applied epidemiology
	<ul style="list-style-type: none"> <li>• Master's degree</li> <li>• Doctoral degree</li> </ul>	<a href="#"><b>CDC/CSTE Applied Epidemiology Fellowship</b></a>  2-year applied epidemiology training program at a state or local health agency
<b>Evaluation</b>	<ul style="list-style-type: none"> <li>• Master's degree</li> <li>• Doctoral degree</li> </ul>	<a href="#"><b>Evaluation Fellowship Program</b></a> 1- to 2-year fellowship in applied public health evaluation design, implementation, and analysis
<b>General public health</b>	<ul style="list-style-type: none"> <li>• Master's degree (MPH, MHS)</li> <li>• Doctoral degree</li> </ul>	<a href="#"><b>ASPPH/CDC Public Health Fellowship Program</b></a>  1- to 2-year fellowship exploring various aspects of public health for graduates from an ASPPH-member school
<b>Global public health</b>	<ul style="list-style-type: none"> <li>• Master's degree (MPH, MHS)</li> <li>• Doctoral degree</li> </ul>	<a href="#"><b>ASPPH/CDC Allan Rosenfield Global Health Fellowship Program</b></a>  1- to 2-year fellowship in global health training for graduates from an ASPPH-member school
<b>Health economics and quantitative policy analysis</b>	<ul style="list-style-type: none"> <li>• Doctoral degree</li> </ul>	<a href="#"><b>CDC Steven M. Teutsch Prevention Effectiveness Fellowship</b></a> 2-year training program in quantitative methods, policy analysis, and assessment of the effectiveness of prevention strategies
<b>Management and leadership</b>	<ul style="list-style-type: none"> <li>• Master's degree</li> <li>• Doctoral degree</li> </ul>	<a href="#"><b>Presidential Management Fellows (PMF) at CDC</b></a> 2-year career training program in public health leadership and management for recent college graduates; apply while still in graduate school
	<ul style="list-style-type: none"> <li>• Master's degree</li> </ul>	<a href="#"><b>Public Health Prevention Service (PHPS)</b></a> 3-year program of training and service in public health program management for people with a master's degree in public health or related field
<b>Preventive medicine</b>	<ul style="list-style-type: none"> <li>• Physician</li> <li>• Dentist</li> <li>• Veterinarian</li> <li>• Health professional</li> </ul>	<a href="#"><b>Preventive Medicine Residency and Fellowship (PMR/F)</b></a> 2-year residency and 1-year fellowship training program in preventive medicine and public health practice with emphasis in leadership, management, policy analysis, program development, implementation, and evaluation
<b>Public health management</b>	<ul style="list-style-type: none"> <li>• Bachelor's degree</li> </ul>	<a href="#"><b>Public Health Associate Program</b></a> 2-year fellowship for those interested in frontline public health practice
<b>Public health or preventive medicine</b>	<ul style="list-style-type: none"> <li>• Master's degree (MPH, MHS)</li> <li>• Doctoral degree</li> </ul>	<a href="#"><b>APTR-CDC Preventive Medicine and Public Health Fellowship Program</b></a>  Fellows will gain leadership experience in public health practice and policy, access to state-of-the-art technology and national databases, and will train with leading experts in the field of preventive medicine and public health.

# Post-doctoral Fellowships

<b>Health Statistics Research</b>	• Doctoral degree	<b><u>National Center for Health Statistics Postdoctoral Research Program</u></b> 2-year appointment with potential for extension to conduct research in areas of mutual interest including statistical theory, survey methodology, and statistical computing
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**Link to CDC Public Health Training Fellowships:** <http://www.cdc.gov/Fellowships/>



# **CDC MINORITY HEALTH INTERNSHIP PROGRAMS**



COLUMBIA UNIVERSITY

# College of Physicians and Surgeons

## Summer Public Health Scholars Program (SPHSP)





Kennedy Krieger Institute

*We are all born with great potential.*

*Shouldn't we all have the chance to achieve it?*

## UIC SCHOOL OF PUBLIC HEALTH Adverse Childhood Experiences and Teen Pregnancy

Hilary Turner, MPH<sup>1</sup>, Christina Harris, BA<sup>1</sup>, Aleksandra Popocata, MD<sup>1</sup>, Nicholas Jennings, PhD<sup>1</sup>, Harpreet Seitcher, MD<sup>1,2,3,4</sup>  
<sup>1</sup>University of Illinois at Chicago, School of Public Health, Chicago, IL; <sup>2</sup>Medical College of Illinois, Springfield, IL; <sup>3</sup>Washington State University, Pullman, WA; <sup>4</sup>University of Maryland, Baltimore, Baltimore, MD

### Introduction

Adverse childhood experiences (ACE) including child physical, sexual, and emotional abuse, witnessing or witnessing differently, parental divorce and having a caregiver with mental health issues, substance abuse, poverty, social isolation, have been associated with poor physical and mental health outcomes. This study was designed to explore the association between ACE and teen pregnancy in urban youth.

Methods: We conducted a cross-sectional survey of 1,000 urban youth aged 15-19 in Chicago, IL. We used a validated ACE questionnaire to assess exposure to ACE. We also assessed teen pregnancy status and other socio-demographic factors.

Results: The prevalence of ACE was 65.5%. Youth with ACE were more likely to be pregnant (OR 1.5, 95% CI 1.1-2.0).

Conclusions: ACE are associated with teen pregnancy. Addressing ACE may help reduce teen pregnancy rates.

### Methods

Study 1: Cross-sectional survey

Study 2: Longitudinal survey

Study 3: Case-control study

Study 4: Cohort study

Study 5: Case-series study

Study 6: Cross-sectional study

Study 7: Case-control study

Study 8: Cohort study

Study 9: Case-series study

Study 10: Cross-sectional study

Study 11: Case-control study

Study 12: Cohort study

Study 13: Case-series study

Study 14: Cross-sectional study

Study 15: Case-control study

Study 16: Cohort study

Study 17: Case-series study

Study 18: Cross-sectional study

Study 19: Case-control study

Study 20: Cohort study

Study 21: Case-series study

Study 22: Cross-sectional study

Study 23: Case-control study

Study 24: Cohort study

Study 25: Case-series study

Study 26: Cross-sectional study

Study 27: Case-control study

Study 28: Cohort study

Study 29: Case-series study

Study 30: Cross-sectional study

Study 31: Case-control study

Study 32: Cohort study

Study 33: Case-series study

Study 34: Cross-sectional study

Study 35: Case-control study

Study 36: Cohort study

Study 37: Case-series study

Study 38: Cross-sectional study

Study 39: Case-control study

Study 40: Cohort study

### Results

Table 1: Prevalence of ACE

Table 2: Association of ACE and Teen Pregnancy

Table 3: Association of ACE and Teen Pregnancy (Adjusted)

Table 4: Association of ACE and Teen Pregnancy (Stratified)

Table 5: Association of ACE and Teen Pregnancy (Sensitivity)

Table 6: Association of ACE and Teen Pregnancy (Specificity)

Table 7: Association of ACE and Teen Pregnancy (PPV)

Table 8: Association of ACE and Teen Pregnancy (NPV)

Table 9: Association of ACE and Teen Pregnancy (LR)

Table 10: Association of ACE and Teen Pregnancy (OR)

Table 11: Association of ACE and Teen Pregnancy (RR)

Table 12: Association of ACE and Teen Pregnancy (AR)

Table 13: Association of ACE and Teen Pregnancy (PAR)

Table 14: Association of ACE and Teen Pregnancy (NNT)

Table 15: Association of ACE and Teen Pregnancy (NNV)

Table 16: Association of ACE and Teen Pregnancy (LOS)

Table 17: Association of ACE and Teen Pregnancy (LOS)

Table 18: Association of ACE and Teen Pregnancy (LOS)

Table 19: Association of ACE and Teen Pregnancy (LOS)

Table 20: Association of ACE and Teen Pregnancy (LOS)

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Table 38: Association of ACE and Teen Pregnancy (LOS)

Table 39: Association of ACE and Teen Pregnancy (LOS)

Table 40: Association of ACE and Teen Pregnancy (LOS)

Table 41: Association of ACE and Teen Pregnancy (LOS)

### Conclusions

ACE are associated with teen pregnancy. Addressing ACE may help reduce teen pregnancy rates.

Future research should explore the mechanisms of this association.

Interventions targeting ACE may help reduce teen pregnancy rates.

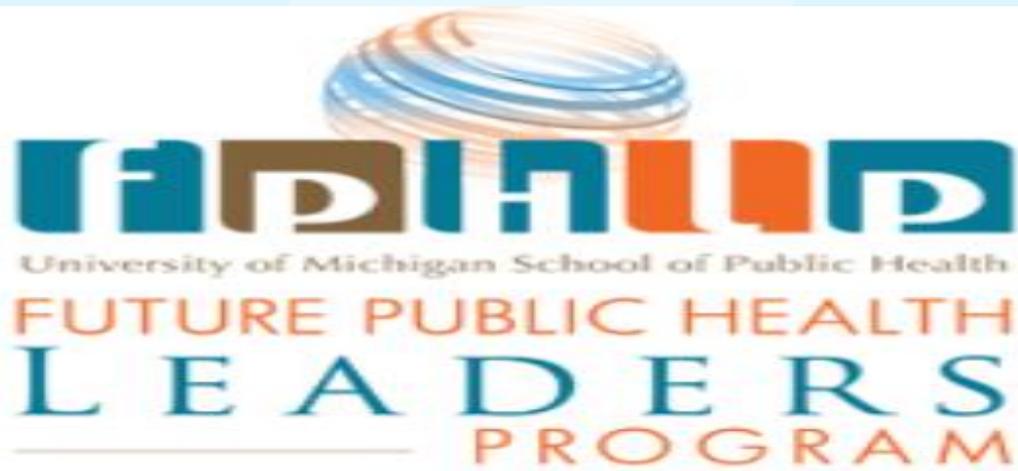
Addressing ACE is a public health priority.

3

1. Background

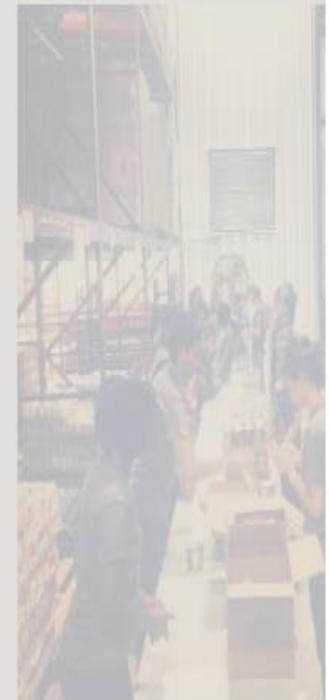
2. Objective

3. Methods



The logo features a stylized globe icon at the top, composed of concentric rings in blue and orange. Below it, the text "FUTURE PUBLIC HEALTH LEADERS PROGRAM" is displayed in a bold, sans-serif font. The words "FUTURE PUBLIC HEALTH" are in orange, "LEADERS" is in blue, and "PROGRAM" is in orange. The text is centered on a white background.

University of Michigan School of Public Health  
FUTURE PUBLIC HEALTH  
LEADERS  
PROGRAM





# Project: IMHOTEP



**TRAINING UNDERREPRESENTED MINORITIES FOR CAREERS IN  
THE PUBLIC HEALTH SCIENCES**



# **ONLINE TRAINING OPPORTUNITY**



# TEACH-VIP: eLearning

[http://www.who.int/violence\\_injury\\_prevention/capacitybuilding/teach\\_vip/e-learning/en/](http://www.who.int/violence_injury_prevention/capacitybuilding/teach_vip/e-learning/en/)

- **Self-paced online injury and violence prevention curriculum**
  - Lesson Catalogue
  - Online resources
  - Self-assessments
- **Target Audience**
  - College students
  - Professionals around the world
- **Cost:** Free



World Health  
Organization

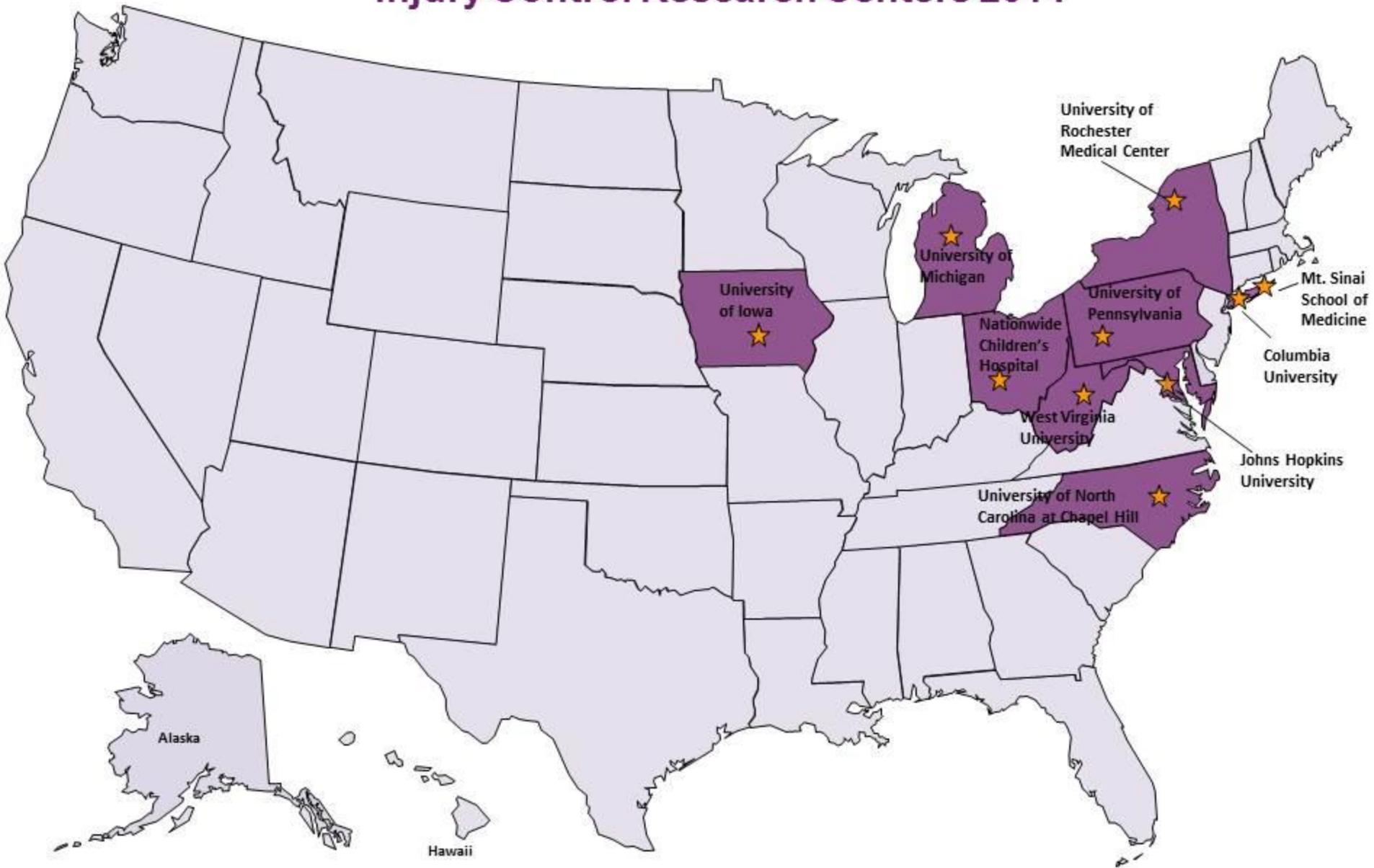
EDC

# **Ways to Collaborate**

## **Training: Ways to Collaborate**

- ❑ CDC Internships/Fellowships**
- ❑ NCIPC Internships/Fellowships**
- ❑ ICRC Internships/Fellowships**
- ❑ Webinars**
- ❑ Repository for Injury and Violence-related lectures**

# Injury Control Research Centers 2014



CDC Injury Center



# NCIPC INTERNSHIP/FELLOWSHIP OPPORTUNITIES

# Mechanisms

- ❑ **CDC Guest Research Program**
- ❑ **Student Work Experience Program**
- ❑ **ORISE**
- ❑ **Humphrey Fellows Program**
- ❑ **Agreement Between NCIPC and ICRC**
- ❑ **Others**

## **Traditional Internships**

- ❑ **Exposed to only the group in which you are assigned.**
- ❑ **Usually not exposed to what research the Center is conducting as a whole.**

# Advantages of the New Internship Approach



- ❑ **Receive an orientation about NCIPC**
- ❑ **Get an opportunity to:**
  - Meet with Selected Senior Staff
  - Meet with the Division ADSs to learn the different types of research that are being conducted in the Center
  - Meet staff in your assigned Division
  - Meet interns/fellows from other training programs in NCIPC
  - Attend Lunch and Learn trainings
- ❑ **Present on research topic at the end of the internship/fellowship period**

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CDC Injury Center



# NCIPC Interns and Fellows

## Intern/Fellow Information

ID

userID

Last Name

First Name

Mentor

Affiliation

Division

Branch

Team

New Record

Save Record



# Training Webinars

- ❑ **Set up a Webinar Series**
  - Hot topics of interest
  - Student Intern Presentations
    - Located at CDC
    - Located within ICRCs

Training Opportunity

**Establishing a Repository of Injury  
and Violence Lectures *via*  
PowerPoint Presentations**

# Repository of Injury Lectures

- ❑ **Partner with the University of Pittsburgh's SuperCourse Epidemiology**
  - This will enable worldwide coverage of injury and violence-related presentations that can be implemented in coursework, training sessions, or seminars.
  - Your lectures get to be used worldwide.
  - Each ICRC could have a link from their webpage to this site.

# Establish a Depository of Injury Lectures

Injury

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[Experience of implementation of standardized trauma treatment methodology Advanced Trauma Life Support® courses \(ATLS®\) in Lithuania. Part I. Part II](#)

[Effectiveness of a State Law Mandating Use of Bicycle Helmets among Children: An Observational Evaluation](#)

[Injury Epidemiology - Introduction](#)

[Injury Epidemiology - Analytic Approaches](#)

[Injury Epidemiology- Participatory Action Research and Quantitative Approaches in Small Populations](#)

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[From injury epidemiology to injury prevention: Lithuanian experience](#)

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[Is the CT Scan important at the 24 Hours in Children with Mild Traumatic Brain Injury? International Multicentre Study](#)

[The Epidemiology of Physical Activity-related Musculoskeletal Injuries. Part I. Part II.](#)

[Corticosteroid Randomisation After Significant Head Injury](#)

[Disabilities due to Injury in the U.S. Armed Forces](#)

[Motor Vehicle Crashes in Older Drivers \[\\(In Spanish\\)\]\(#\)](#)

[Air Safety and Terrorism \[\\(in Spanish\\)\]\(#\)](#)

[Safety education of pedestrian. A systematic review. \[in Chinese\]\(#\)](#)

[Safety Road Program Mendoza, Argentina](#)

[Introduction to Injury Scoring Systems](#)

[Injury Prevention and Control \[\\(In Spanish\\)\]\(#\)](#)

[Falls in the Elderly \[\\(in Spanish\\)\]\(#\)](#)

[Air Travel. Pleasure or Peril? \[in Chinese\]\(#\)](#)

[Fear of Falling Among Seniors: Needs Assessment and Intervention Strategies](#)

[Medical Aspects of Blast Injuries](#)

[Program: Safe School Injury Prevention Program, Health Ministry Mendoza, Argentina](#)

## **Injury**

- [Air Travel. Pleasure or Peril?](#)
- [Comments on APPENDIX A "Dissent on Safety Issues"](#)
- [Corticosteroid Randomisation After Significant Head Injury](#)
- [Disabilities due to Injury in the U.S. Armed Forces](#)
- [Effectiveness of a State Law Mandating Use of Bicycle Helmets among Children: An Observational Evaluation](#)
- [INJURY BIOMECHANICS](#)
- [Injury Prevention](#)
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- [Safety Road Program Mendoza, Argentina](#)
- [Socioeconomic differences in road traffic injuries during childhood and youth: a closer look at different kinds of road user](#)
- [Socioeconomic differences in Swedish children and adolescents injured in road traffic injuries: cross sectional study](#)
- [Transportation Safety for Wheelchair Occupants. Part I.](#)
- [Transportation Safety for Wheelchair Occupants. Part II.](#)
- [Transportation Safety for Wheelchair Occupants. Part III.](#)
- [Trauma Registry](#)
- [TRAUMA SYSTEM](#)
- [Disabilities due to Injury in the U.S. Armed Forces](#)
- [Environmental Approaches to Injury Prevention](#)
- [Falls in the Elderly in Spanish 3571 translated by Nicolas Padilla](#)
- [From injury epidemiology to injury prevention: Lithuanian experience](#)
- [INJURY BIOMECHANICS in Chinese 7771 translated by Supercourse China](#)

## **Injury biomechanics**

- [INJURY BIOMECHANICS](#)

## **Injury epidemiology**

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- [Injury Epidemiology - Introduction](#)

## **Injury epidemiology**

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## Supercourse Lecture

### Disabilities due to Injury in the U.S. Armed Forces

Topic: [injury](#)

Authors: [Ronald E LaPorte](#) & [Thomas Songer](#)

Keywords: [injury](#)

#### Versions:

In English: [View lecture](#)

- Original: <http://www.pitt.edu/~super7/6011-7001/6551.ppt>
- Original type: PPT
- Submitted on: 08/15/2002
- Last updated on: 08/15/2002
- Lecture number: lec6551

### Join Us!

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**Disabilities due to Injury in the U.S. Armed Forces**

Thomas Songer  
Ronald LaPorte

This lecture originated from discussions held within the Armed Forces Epidemiological Board Injury Prevention and Control Work Group. This group convened to (1) determine the burden of injuries in the armed forces across the spectrum of health, (2) identify data sources with value for injury surveillance, and (3) provide recommendations for the best use of these data sources for injury prevention.

Readings: Songer TJ, LaPorte RE. Disabilities due to Injury in the Military. American Journal of Preventive Medicine 18(3S):33-40, 2000.

Atlas of Injuries in the U.S. Armed Forces.  
<https://www.denix.osd.mil/denix/Public/Library/Atlas/atlas.html>

## **Group Discussion**

- ❑ Do you think establishing a repository of injury and violence-related lectures will assist in improving information sharing?**
- ❑ Would you be interested in sending some students to NCIPC for an internship?**
- ❑ Do you think faculty from your institution might want to do a fellowship/rotation at NCIPC or at another ICRC?**
- ❑ What are some other training opportunities for collaboration among the ICRCs?**
- ❑ What are some other training opportunities for collaboration that we need to consider between NCIPC and ICRCs?**

# Investing in Our Future .. To Raise the Bar



Epidemic Intelligence Service



**For more information about training opportunities at  
NCIPC, please contact**

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Office of the Associate Director for Science  
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