

Hosted by the Northwest Portland Area Indian Health Board and the CDC-funded Prevention Research Center, the Center for Healthy Communities at Oregon Health & Science University



# Summer Research Training Institute for American Indian and Alaska Native Health Professionals

June 16-July 2, 2014  
Portland, Oregon

## Who should attend?

Our curriculum is designed to meet the needs of professionals who work in diverse areas of American Indian and Alaska Native health. Almost anyone who works in Indian health can take advantage of this skill-building opportunity—from administrators to community health workers, physicians, nurses, researchers, and program managers. Because our courses emphasize research skills, program design, and implementation, those professionals who seek training opportunities related to research will find relevant courses in this program. Registrants from American Indian and Alaska Native health professions are strongly encouraged, although we seek health science students and participants from other professional areas who are interested in Native health issues, as well.

## How much does it cost?

Tuition scholarships are available for American Indian and Alaska Native participants and Tribal EpiCenter employees. For others, tuition checks should be made payable to: Northwest Portland Area Indian Health Board (Summer Institute). Tuition is charged for each course offered. The cost of each course is listed in this brochure. Travel scholarships are available on a first-come, first-served basis for American Indian and Alaska Native participants. Priority will be given to students.

To apply for tuition and travel scholarships, please mark the appropriate box on the online registration form and e-mail proof of tribal enrollment or a letter of support from your tribe to [summerinstitute@npaihb.org](mailto:summerinstitute@npaihb.org) or fax to 503-228-8182. Registration can be accessed at the web address below.

## For more information:

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Visit: [www.npaihb.org/training/narch\\_training](http://www.npaihb.org/training/narch_training)

Registration due by May 1, 2014



## Travel and Accommodations

### Location

Courses will take place at the Northwest Portland Area Indian Health Board. Additional information, including campus maps and transportation options, to and from the training, will be sent to registered trainees prior to the beginning of the Summer Institute.

### Travel to Portland

Summer Research Training Institute participants are responsible for making their own travel arrangements. Portland is easily accessible by plane, train, and automobile. Portland International Airport is approximately 15 minutes from downtown Portland and is accessible by light rail train (“the Max”) and by car. The train station and bus depot are located in the middle of downtown Portland. Several city buses offer service to the Northwest Portland Area Indian Health Board. For more information on public transportation visit: [www.trimet.org](http://www.trimet.org). If you need additional assistance with transportation options, we are available to assist you.

### Where to Stay

Many hotels in Portland offer discounted rates to guests of Oregon Health & Science University. Many also offer government rates. We suggest you make reservations as early as possible as Portland area hotels fill quickly in the summer. We have contracted with the Marriott Residence Inn-Downtown Riverplace: (503) 552-9500. Please reference the 2014 Summer Institute Group when making your reservation at the Marriott Residence Inn-Downtown Riverplace for discounted rates.

### Sponsors

The Summer Institute is funded by a Native American Research Centers for Health grant (NARCH U26IHS300415) from the NIH/IHS and is co-sponsored by the Center for Healthy Communities, a CDC-funded Prevention Research Center (U48DP001937), at Oregon Health & Science University.

### About the Curriculum

Courses are offered each week (morning, afternoon, and all day) and vary in length from three to five days. You may pick and choose as many courses as interest you; just keep in mind that some of the class times may overlap. All books and course materials will be provided. Courses with fewer than five enrolled students will be cancelled. If you own a laptop, you may bring it to the training. **All students will be expected to complete a final exam or culminating project in each course in order to receive a certificate of completion.**

# Course Descriptions and Schedules



## Week One: June 16-20, 2014

### Introduction to Epidemiology

This course focuses primarily on the basic principles of epidemiology: (1) introduction to epidemiologic thinking, (2) measures of disease frequency and association, (3) basic statistics relevant to epidemiology measurement, and (4) an overview of study design (especially cross-sectional surveys, case-control, and cohort studies). As time allows we will also cover a very basic introduction to bias, confounding, and effect modification.

Time: 9:00am - noon (Monday - Friday)

Instructor: John Stull, MD, MPH

Tuition: \$300

### Substance Use Disorders: Epidemiology and Interventions

This course examines epidemiological, services, and clinical research related to alcohol and drug use disorders among American Indians and Alaska Natives. Classes explore the range of substance use disorders (SUDs), examine the databases available for analyses, and describe health services research opportunities. Classes discuss prevalence and incidence of SUDs, risk and protective factors, culturally relevant interventions, use of participatory research methods, and community assessments of needs. Current empirically supported prevention and treatment practices are reviewed and class members engage in active discussion related to their own work and community. Services research strategies and policy interventions are also presented. Students will be introduced to papers on key concepts and will participate in group projects and activities.

Time: 9:00am - noon (Monday - Friday)

Instructors: Traci Rieckmann, PhD and John Spencer, PhD

Tuition: \$300

### Maternal & Child Health (MCH) Epidemiology

The application of epidemiologic principles and methods to study reproductive and MCH issues of public health importance will be examined in this course through lectures, readings from the published literature, and class discussion. The course will cover such topics as infant mortality, maternal and child nutrition, and MCH surveillance. Students will work in small groups on a research project incorporating reproductive/MCH data analyses techniques, with results to be presented and discussed on the final day of the course. Instructors are from the Centers for Disease Control & Prevention (CDC), with guest lecturers from the Northwest Portland Area Indian Health Board (NPAIHB), Oregon Health & Science University (OHSU), and other local agencies. Prerequisite: Introduction to Epidemiology (or equivalent).

Time: 9:00pm - noon (Monday - Friday)

Lead Instructor: Jessica Marcinkevage, PhD, MSPH

Tuition: \$300



## **Week One: June 16-20, 2014 (continued)**

### **Community-based Participatory Research**

This course will provide an introduction to community-based participatory research (CBPR) with tribal communities and will introduce the concepts of effective CBPR. This class will discuss standard methods of gathering information and the value of community involvement in data collection through the use of representative CBPR studies. Upon completion of this course, trainees should have more confidence and competence in using CBPR techniques with their tribal communities.

Time: 1:30pm - 4:30pm (Monday - Friday)

Lead Instructor: Victoria Warren-Mears, PhD, RD

Tuition: \$300

### **Data into Action: Outbreak Investigation**

This course will be a review of the epidemiologic principles and skills used as well as common jurisdictional issues encountered during an outbreak response. We will undertake an interactive review of disease surveillance, detecting an outbreak, creating case definitions, selecting a study design, and choosing appropriate outcome measures and their statistical tests. We will spend the latter part of each afternoon working together through case studies that highlight these topics. The course is tailored to practicing, MPH-level epidemiologists; and covers topics often not included in doctorate programs such as medical school also applicable to physicians who are working in applied public health settings.

Time: 1:30pm - 4:30pm (Monday - Friday)

Instructors: Tom Weiser, MD, MPH; Richard Leman MD; Antonio Neri, MD, MPH

Tuition: \$300

## **Week Two: June 23-27, 2014**

### **Epidemiology Methods**

This course involves a more detailed exploration of epidemiologic study designs, primarily cross-sectional, case-control, and cohort studies addressing questions related to chronic diseases and cancer control. We will include discussions of some of the cultural considerations in the design and implementation of these studies. This course will also examine in more detail topics of importance to the design, implementation, and evaluations of observational epidemiology studies: (1) systematic error (selection and information biases), (2) confounding, and (3) effect modification. Reading assignments for this course will include journal articles, as well as chapters from the assigned text. Prerequisite: Introduction to Epidemiology (or equivalent).

Time: 9:00am - noon (Monday - Friday)

Instructor: John Stull, MD, MPH

Tuition: \$300



## Week Two: June 23-27, 2014 (continued)

### Scientific Writing

This course is designed to impart the principles of good scientific writing for papers and other manuscripts. We will cover strategies for improving readability, as well as the elements of manuscripts, principles for display of data, and making writing more efficient. The goal is for each student to have a reasonable draft of a document (paper, proposal, abstract, essay, etc.) by the completion of the course. This course will operate workshop style, with small-group and instructor feedback. Come prepared to write!

Time: 9:00am - noon (Monday - Thursday)

Instructor: Rachel Dresbeck, PhD

Tuition: \$300

### Intermediate Biostatistics: Concepts and Analysis Methods

In this course students will be exposed to biostatistics concepts and data analysis methods used in clinical and public health research. The focus will be on intermediate level topics, such as stratified contingency tables, correlation, linear regression and logistic regression. Students will use some statistical software in the course (SAS), but the focus will be on biostatistical reasoning, and interpretation of data in the context of health research studies. Thus, many exercises will be conducted by examining and interpreting output from statistical packages, as well as the published literature. This course will build upon previous analytic courses taught in the AI Summer Institute, such as Data Analysis with SAS. Introductory statistics will be touched on briefly during day one of the course, but students should have taken one or more of the aforementioned Summer Institute courses, or have equivalent university coursework or work experience.

Time: 1:30pm - 4:30pm (Monday - Wednesday)

Instructor: Jodi Lapidus, PhD

Tuition: \$300

### Research Design & Grant Writing

This course is designed for health professionals and students with a working knowledge of epidemiology and study design. It will cover how to plan, design, and develop a NIH or PCORI-style research proposal from the abstract to the research design and methods.

Time: 1:30pm - 4:30pm (Monday - Friday)

Instructor: Linda Burhansstipanov, MSPH, DrPH, CHES

Tuition: \$300



## Week Three: June 30-July 2, 2014

### Cancer Prevention and Control

Cancer remains a leading cause of morbidity and mortality among tribal people, and many of the causes of cancer in Native people are preventable. In this course, we will discuss cancer etiology, cancer biology, common epidemiologic approaches to studying cancer and cancer prevention, surveillance, and will present examples of successful cancer prevention projects in Indian country. This course is meant to dovetail with the Research Design and Grant Writing course offered in the afternoon of week two (description on previous page).

Time: 9:00am - 4:30pm (Monday - Tuesday) 9:00am - noon (Wednesday)

Instructors: Chuck Wiggins, PhD and Thomas Becker, MD, PhD

Tuition: \$300

### Mixed Methods Research

This course will discuss the use of “mixed methods”, or the collection, analysis, and integration of both qualitative and quantitative data, within a single research or intervention study. Participants will learn how to develop a rigorous and cohesive mixed methods project, from the statement of purpose to data collection to triangulation and application of research results. We will cover the philosophical and theoretical assumptions of both qualitative and quantitative methods, and the benefits of integrating the two data types.

Time: 9:00am - noon (Monday - Wednesday)

Instructor: Stephanie Farquhar, PhD

Tuition: \$300

### Tips for Registration

\*Registration should be completed on-line at [www.npaihb.org/training/page/summer\\_training\\_institute/](http://www.npaihb.org/training/page/summer_training_institute/)

\*Registration will be closed on May 1, 2014.

\*Class space is limited, so it is best to register as soon as possible.

\*If a class is full, you will be placed on a waitlist. Should an opening become available, you will be notified.

\*Tuition is due by May 30, 2014.

\*\*Please note that you will not be allowed to switch classes during the training.



# Schedule by Week

## Week One: June 16-20, 2014

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9am-noon	Introduction to Epidemiology	Introduction to Epidemiology	Introduction to Epidemiology	Introduction to Epidemiology	Introduction to Epidemiology
9am-noon	Substance Use Disorders: Epidemiology and Interventions	Substance Use Disorders: Epidemiology and Interventions	Substance Use Disorders: Epidemiology and Interventions	Substance Use Disorders: Epidemiology and Interventions	Substance Use Disorders: Epidemiology and Interventions
9am-noon	Maternal & Child Health Epidemiology	Maternal & Child Health Epidemiology	Maternal & Child Health Epidemiology	Maternal & Child Health Epidemiology	Maternal & Child Health Epidemiology
1:30pm-4:30pm	Community-based Participatory Research	Community-based Participatory Research	Community-based Participatory Research	Community-based Participatory Research	Community-based Participatory Research
1:30pm-4:30pm	Data Into Action: Outbreak Investigation Epidemiology	Date Into Action: Outbreak Investigation Epidemiology	Data Into Action: Outbreak Investigation Epidemiology	Data Into Action: Outbreak Investigation Epidemiology	Data Into Action: Outbreak Investigation Epidemiology

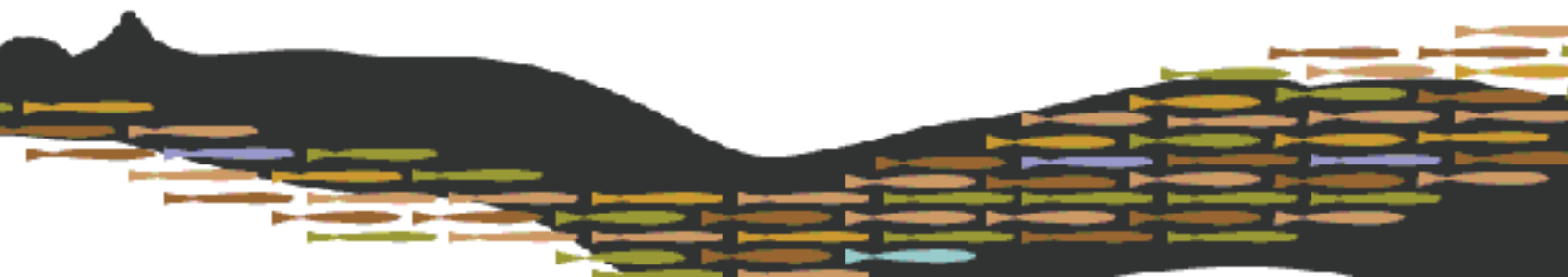
## Week Two: June 23-27, 2014

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9am-noon	Epidemiology Methods	Epidemiology Methods	Epidemiology Methods	Epidemiology Methods	Epidemiology Methods
9am-noon	Scientific Writing	Scientific Writing	Scientific Writing	Scientific Writing	
1:30pm-4:30pm	Intermediate Biostatistics	Intermediate Biostatistics	Intermediate Biostatistics		
1:30pm-4:30pm	Research Design and Grant Writing	Research Design and Grant Writing	Research Design and Grant Writing	Research Design and Grant Writing	Research Design and Grant Writing

## Week Three: June 30-July 2, 2014

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9am-4:30pm	Cancer Prevention and Control	Cancer Prevention and Control	Cancer Prevention and Control (9am-noon)		
9am-noon	Mixed Methods Research	Mixed Methods Research	Mixed Methods Research		

\* NOTE: The Cancer Prevention and Control course runs all day Monday and Tuesday and 9:00am-noon on Wednesday.



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