



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

June 14 - July 1, 2010
Portland, OR

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...from administrators to community health workers, physicians, nurses, researchers, program managers...almost anyone who works in Indian health and wants to take advantage of new skill-building opportunities. Because our courses emphasize research skills and program design and implementation, those professionals who seek training opportunities related to research will find relevant courses in this program. Applications from American Indian and Alaska Native health professionals are strongly encouraged, although we seek applications from others who are interested in Native health issues, as well.

How much does it cost?

Tuition scholarships are available for American Indian and Alaska Native trainees and Tribal Epi Center Employees. To apply for a tuition scholarship, please include proof of tribal enrollment or a letter of support from your tribe with your registration form. Tuition checks should be made payable to: Northwest Portland Area Indian Health Board (Summer Institute). Tuition is charged for each course offered and varies by course. The cost of each course is listed in this brochure.

A few travel scholarships are available on a first come, first served basis for American Indian and Alaska Native trainees. Priority will be given to students. To apply for a travel scholarship, please submit a complete Travel Scholarship Application form with your registration form. The application is located on our website listed below.

For more information contact:

Visit www.npaihb.org/training/page/summer_research_training_institute

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Registration due by May 15, 2010



Travel and accommodations

Location

Most courses will meet at the Northwest Portland Area Indian Health Board and the Oregon Health & Science University (OHSU). Additional information, including campus maps, will be sent to registered trainees prior to the beginning of the Summer Institute.

Travel to Portland

Summer Research Training Institute trainees are responsible for making travel arrangements to attend the program. 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

Where to stay

There are many hotels in Portland and the outlying areas, several of which offer discounted rates to guests of OHSU. Many also offer government rates. We suggest you make reservations as early as possible as Portland area hotels fill quickly in the summer. We recommend the Marriott Residence Inn-Downtown Riverplace: (503) 552-9500 and the Paramount Hotel: (503) 223-9900.

Sponsors

The Summer Institute is funded by a Native American Research Centers for Health (NARCH U26IHS3000132) grant from the NIH/IHS and is co-sponsored by the Center for Healthy Communities (a CDC-funded Prevention Research Center 1U48DP001937-01) at Oregon Health & Science University.

Tips for registration

*Registration should be completed on-line at www.npaihb.org/training/page/summer_training_institute

*Registration will be closed on May 15, 2010.

*Participants may register for as many or as few courses as desired. However, keep in mind that some of these classes are offered at the same time.

*Class space may be limited in the computer-based learning courses such as Intermediate Data Analysis with SAS, Epi Data, and Data Management and Analysis.

*Tuition is due by May 28, 2010.

* All books and course materials will be provided.

*Courses with fewer than three enrolled students will be cancelled.

Schedule by week

Week one: June 14-18, 2010

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------|--|--|--|--|--|
| 8:30am-noon | Intro. to Epidemiology | Intro. to Epidemiology | Intro. to Epidemiology | Intro. to Epidemiology | Intro. to Epidemiology |
| 8:30am-noon | Community-based Participatory Research | Community-based Participatory Research | Community-based Participatory Research | Community-based Participatory Research | Community-based Participatory Research |
| 1:30pm-5pm | Data Into Action: Outbreak Investigation | Data Into Action: Outbreak Investigation | Data Into Action: Outbreak Investigation | Data Into Action: Outbreak Investigation | Data Into Action: Outbreak Investigation |
| 1:30pm-5pm | Data Management and Analysis Using STATA | Data Management and Analysis Using STATA | Data Management and Analysis Using STATA | Data Management and Analysis Using STATA | Data Management and Analysis Using STATA |
| 1:30pm-5pm | Questionnaire Design & EpiData™ | Questionnaire Design & EpiData™ | Questionnaire Design & EpiData™ | Questionnaire Design & EpiData™ | Questionnaire Design & EpiData™ |

Week two: June 21-25, 2010

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 8:30am-noon | Epidemiology Methods | Epidemiology Methods | Epidemiology Methods | Epidemiology Methods | Epidemiology Methods |
| 8:30am-noon | Conducting Focus Groups | Conducting Focus Groups | Conducting Focus Groups | | |
| 8:30am-noon | Research Design & Grant Development | Research Design & Grant Development | Research Design & Grant Development | Research Design & Grant Development | Research Design & Grant Development |
| 1:30pm-5pm | Randomized Clinical Trials | Randomized Clinical Trials | Randomized Clinical Trials | Randomized Clinical Trials | Randomized Clinical Trials |
| 1:30pm-5pm | Substance Abuse Epidemiology | Substance Abuse Epidemiology | Substance Abuse Epidemiology | Substance Abuse Epidemiology | Substance Abuse Epidemiology |
| 1:30pm-5pm | Grant Management | Grant Management | Grant Management | | |

Week three: June 28-July 1, 2010

| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------|
| 8:30am-noon | Program Evaluation | Program Evaluation | Program Evaluation | Program Evaluation | |
| 8:30am-noon | Intermediate Data Analysis with SAS | Intermediate Data Analysis with SAS | Intermediate Data Analysis with SAS | Intermediate Data Analysis with SAS | |
| 1:30pm-5pm | Measuring Quality Improvement | Measuring Quality Improvement | Measuring Quality Improvement | Measuring Quality Improvement | |
| 1:30pm-5pm | Human Subjects Protection | Human Subjects Protection | Human Subjects Protection | Human Subjects Protection | |

Course Descriptions and Schedules



Week one: June 14-18, 2010

Introduction to Epidemiology

This course focuses on basic principles of epidemiology, measures of disease frequency and association, an overview of study design, (especially cross-sectional surveys, case-control, and cohort studies), and an introduction to bias, confounding and effect modification.

Time: 8:30 am - noon (Monday-Friday)

Instructor: John Stull, MD, MPH

Tuition: \$300

Community-based Participatory Research

This course will provide an introduction to community-based participatory research (CBPR) with tribal communities. The course will introduce the concepts of effective CBPR. We 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. The Director of the Northwest Portland Area Indian Health Board EpiCenter, Victoria Warren-Mears, PhD, RD, will facilitate this course.

Time: 8:30 am - noon (Monday-Friday)

Tuition: \$300

Data Management and Analysis Using STATA

STATA is a powerful yet easy-to-use statistical package with a menu-driven system. This course is designed for trainees who want to learn to conduct data management and analysis using STATA. We will use health-related data to teach the basics of data entry and management, producing descriptive statistics and frequency tables, by performing frequently used statistical analysis and producing graphical presentation. The class will be held in the computer lab at OHSU, Department of Public Health & Preventive Medicine, to provide hands-on experience to the trainees. An introductory level of statistical knowledge is desired but we will review all statistical concepts covered in the class. Course enrollment limited.

Time: 1:30 pm - 5:00 pm (Monday-Friday)

Instructor: Rochelle Fu, PhD

Tuition: \$300

Questionnaire Design and EpiData™

Much of the data collected in epidemiologic research involves the use of questionnaires and interviews. This course will cover the design and use of questionnaires and interviews in survey research. We will review the strengths and limitations of using existing survey instruments (wording, formatting, scales, and scores), and the process for developing new questionnaires and scales. Methods of quality control and interviewer training will be covered. The second part of the course will cover the management of survey data using the public domain freeware, EpiData™. Students will learn to create data entry screens with programmed checks to reduce errors during keyboard entry of data.

Time: 1:30 pm - 5:00 pm (Monday-Friday)

Instructor: William Lambert, PhD

Tuition: \$300

Data Into Action: Outbreak Response Epidemiology

Outbreak Response Epidemiology is a review for graduate-level epidemiologists. This will be a review of the epidemiological principles and skills required in an outbreak response. We will undertake an interactive review of creating case definitions, study design, selecting appropriate outcome measures, and touch on jurisdictional issues. Afternoons will be spent going through case studies that highlight these topics. The course is tailored to practicing MPH-level epidemiologists; specifically those working with Tribal Epidemiology Centers.

Time: 1:30 pm - 5:00pm (Monday-Friday)

Instructors: John Redd, MD, MPH, Antonio Neri, MD, MPH, Tom Weiser, MD, MPH and Kevin Winthrop, MD, MPH

Tuition: \$300



Week two: June 21-25, 2010

Epidemiology Methods

This course involves a more focused exploration of the design and conduct of epidemiologic studies, primarily for chronic diseases and cancer control, and will include cultural considerations in the design and implementation of these studies. We will examine in more detail topics of importance to the design, implementation, and evaluations of observational epidemiology studies: systematic error (selection and information biases), confounding, and effect modification. Reading assignments for this course will include journal articles, as well as chapters from the assigned text.

Time: 8:30 am - noon (Monday-Friday)

Instructor: John Stull, MD, MPH

Tuition: \$300

Conducting Focus Groups

This session will provide an overview of Focus Group methodology, including a discussion on the method's strengths and limitations, when it is utilized to inform quantitative research design and/or is included as an integral part of a multi-method evaluation program or questionnaire development. Students will participate in a mock Focus Group session in order to critique and evaluate its usefulness.

Time: 8:30 am - noon (Monday-Wednesday)

Instructor: Jennie Joe, PhD

Tuition: \$150

Research Design & Grant Development

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-style research proposal from the abstract to the research design and methods.

Time: 8:30 pm - noon (Monday-Friday)

Instructor: Linda Burhansstipanov, MSPH, DrPH, CHES.

Tuition: \$300

Grant Management

This course is designed for those interested in learning more about grant management after an award is made. We will cover the following topics: human resources issues related to hiring and termination, development and monitoring of budgets, submitting progress reports, electronic submissions of forms to different federal agencies, communications with tribal and other communities, and quality control issues in grant management. Guest instructors will help share their expertise in different areas. Much of the data collected in epidemiologic research involves the use of questionnaires and interviews.

Time: 1:30 pm - 5:00 pm (Monday-Wednesday)

Instructor: Teshia Solomon, PhD

Tuition: \$150

Randomized Clinical Trials

This course will introduce trainees to concepts and principles of randomized clinical trials. The course will explore the best approaches to choosing the right randomized trial design for different situations. The instructor will provide examples of randomized trials in Indian communities and among AI/AN study subjects.

Time: 1:30 pm - 5:00 pm (Monday-Friday)

Instructor: Jared Jobe, PhD

Tuition: \$300



Week two: June 21-25, 2010 (continued)

Substance Abuse Epidemiology

This course examines opportunities for epidemiological and services research on alcohol and drug use disorders among American Indians and Alaska Natives. Classes explore the epidemiology of alcohol and drug use disorders, examine the databases available for analyses, and describe health services research opportunities. Classes discuss mortality and morbidity associated with alcohol and drug disorders, use of participatory research methods, and community assessments of needs. Services research strategies and policy interventions are discussed. Students will be introduced to papers on key concepts and participate in a group exercise to design research projects.

Time: 1:30 pm - 5:00 pm (Monday-Friday)

Instructor: Dennis McCarty, PhD and Traci Rieckmann, PhD

Tuition: \$300



Week three: June 28-July 1, 2010

Program Evaluation

This intensive, four-day course will introduce students to the fundamental principles of program evaluation and their theoretical bases. The course will include discussion of a variety of theory-based evaluation designs and methods. Evaluation focusing on processes, impact, and outcomes associated with cancer-related health promotion and health education programs will be emphasized. Specific attention will be concentrated on the practical application of theories. By the end of the course, each student will have developed a comprehensive plan for evaluating a program of his or her choosing, and each will have presented the plan for critique by faculty and students.

Time: 8:30am - noon (Monday-Thursday)

Instructor: Mark Dignan, PhD, MPH

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 and STATA), 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 other analytic courses taught in the AI Summer Institute, such as Introduction to STATA and 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. The class will be held in the computer lab at OHSU, Department of Public Health & Preventive Medicine, to provide hands-on experience to the trainees

Time: 8:30 am - noon (Monday-Thursday)

Instructor: Jodi Lapidus, PhD

Tuition: \$300



Week three: June 28-July 1, 2010 (continued)

Measuring Quality Improvement in Indian Health

This course will introduce the students to the “Model for Improvement” and the “Chronic Care Model” as applied to Indian health. Students will then learn statistical process control methods for measuring quality improvement in Indian healthcare. Topics will include using and understanding run charts, Shewhart control charts and other graphical methods for displaying health data. The course is aimed at those who will be leading quality improvement efforts in clinics and hospitals and those who will be evaluating the effectiveness of quality improvement.

Time: 1:30 pm - 5:00 pm (Monday-Thursday)

Instructors: Thomas Weiser, MD, MPH and Mark Veazie, DrPH

Tuition: \$300

Human Subjects Protection

The goal of this short course is to enable researchers to recognize and appropriately address legal, regulatory, and ethical issues in clinical, epidemiological, and community-based research, with special attention to research involving Native populations. This goal is accomplished by (1) teaching basic concepts in law, federal regulation, study design, and ethics; (2) reviewing common problems encountered in human subjects protocols and informed consent forms; (3) reviewing the roles and responsibilities of all involved in the conduct of human subjects research; (4) reviewing the obligations of researchers in relation to initial and continuing reviews, reporting of adverse events, reporting changes in approved research, and consenting and monitoring human subjects as required by federal regulations; (5) discussing the additional protections afforded selected populations of human subjects; (6) exploring historical and recent cases of human subjects abuses; and (7) focusing on the need to develop policies and procedure to best safeguard and protect all Native subjects and communities.

Time: 1:30 pm - 5:00 pm (Monday-Thursday)

Instructors: Gary Chiodo, DMD

Tuition: \$150

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