This year, AMCHP will offer four training options for those wishing to build their skills in the areas of spatial analysis, quality improvement, scientific writing, and leadership. Below is a brief summary of the four options. A more detailed description of each, including learning objectives and MCH leadership competencies addressed, follows on subsequent pages. For more information, please contact Tegan Callahan at tcallahan@amchp.org.


Applications must be submitted no later than **Friday, October 19, 2012**.

**Option 1: Spatial Analysis**  
**Title:** Intermediate/Advanced Spatial Analysis Techniques for the Analysis of MCH Data  
**Duration:** 1 day  
**Trainers:** Russ S. Kirby, PhD, MS, FACE, and Marilyn O. Ruiz, PhD  
**Ideal Participants:** Emerging, midlevel, and senior level MCH Epidemiologists, SSDI Coordinators, and others who do hands-on analysis, who have a basic knowledge of GIS methods.

**Option 2: Quality Improvement**  
**Title:** QI Fundamentals for use in MCH/Public Health  
**Duration:** 1 day  
**Trainers:** Judy Shaw, EdD, MPH, RN, FAAP and TBD  
**Ideal Participants:** MCH professionals interested in the application of quality improvement within public health analysis and programming.

**Option 3: Scientific Writing**  
**Title:** Scientific Writing for MCH Epidemiologists  
**Duration:** 1 day  
**Trainers:** Michael Kogan, Ph.D., and Donna Petersen, ScD, MHS  
**Ideal Participants:** MCH Epidemiologists and others in state and local health departments seeking assistance in moving from practice to publication.

**Option 4: Leadership**  
**Title:** Using Communication to Create Change in Leadership  
**Duration:** 1 day  
**Trainers:** Glynis Shea  
**Ideal Participants:** Any MCH professionals who reside in an organization.
Option 1: Spatial Analysis

Title: Intermediate/Advanced Spatial Analysis Techniques for the Analysis of MCH Data

Trainers: Russ S. Kirby, PhD, MS, FACE  
*Professor and Marrell Endowed Chair*  
*Department of Community and Family Health*  
*College of Public Health, University of South Florida*

Marilyn O. Ruiz, PhD  
*Clinical Associate Professor*  
*Division of Epidemiology*  
*Director, GIS and Spatial Analysis Laboratory*  
*University of Illinois, College of Veterinary Medicine, Pathobiology*

**Learning Objectives**
By the end of this training, the participant should be able to:
1. Review basic methods for spatial representation of health data in map form.
2. Identify geographical methods of analysis that can be applied to point distributions (individually geocoded records) and ecological data (data aggregated to administrative units).
3. Examine spatial distributions of MCH outcome data, and utilize appropriate methods to perform smoothing, identify clustering if present, and interpret patterns in the data.
4. Describe the effects of spatial and spatio-temporal autocorrelation, utilize tools to identify whether either are present, and apply analytical methods (spatial regression, geographically weighted regression) to control for autocorrelation if present.

**MCH Leadership Competencies**

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<th>Addressed by this training:</th>
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Requested Skills: Basic knowledge of GIS methods, ArcGIS software, and some experience using GIS to analyze or visualize data.

Pre-Training Preparation:
- Pre-training survey will be sent to participants to gather information on a real-life problem they would like to solve with spatial analysis to help with the focus of the training and make sure participants are getting the information that is needed.
Option 2: Quality Improvement

Title: QI Fundamentals for use in MCH/Public Health

Trainers: Judy Shaw, EdD, MPH, RN, FAAP
Associate Professor of Pediatrics and Nursing
Executive Director, Vermont Child Health Improvement Program
University of Vermont College of Medicine

Additional faculty and coaches from the National Improvement Partnership Network (NIPN) will participate

Learning Outcomes
By the end of this training, the participant should be able to:
1. Learn QI fundamentals, including recognizing an area in need of improvement, developing aim statements, identifying and prioritizing change ideas and testing and measuring changes
2. Identify key steps in developing and conducting effective improvement projects in MCH/public health settings
3. Identify appropriate data sources for QI projects and design easy-to-use tools to support data collection, management and display
4. Acquire experience in QI through case-based exercises that demonstrate QI methods
5. Describe key elements of Improvement Partnership programs and approaches to QI
6. Learn ways to partner with quality improvement organizations in a state or region

Practical Outcomes
This training is designed to provide attendees with practical, hands-on QI techniques and tools for use in public health. Attendees will learn from experts about QI, practice using tools, learn about their role and contribution to an existing or new QI project, develop their own plan for using QI in their home organization, and learn about ways to stay involved in QI activities through state and national networks, such as the Improvement Partnerships and NIPN.

MCH Leadership Competencies

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Pre-training Preparation
Applicants will be required to complete a brief QI knowledge assessment prior to the training.
Option 3: Scientific Writing

Title: Scientific Writing for MCH Epidemiologists

Trainers:  
Michael Kogan, PhD  
Director of the Office of Epidemiology and Research  
Maternal and Child Health Bureau, Health Resources and Services Administration

Donna Petersen, MHS, ScD  
Dean, College of Public Health  
Senior Associate Vice President, USF Health  
Editor-in-Chief of the Maternal and Child Health Journal

Learning Outcomes:  
By the end of this training, the participant should be able to articulate why publication of MCH work is important, understand the key points of each section of a scientific paper, know how to choose the best journal for submitting their work, and use writing style tips to improve their own scientific writing.

Practical Outcomes:  
At the end of the workshop, all participants who come to the workshop at different stages of the manuscript development process (see Pre-Training Preparation below) will leave with a significantly improved manuscript. We will go over each section of a scientific paper in detail, and then there will be time set aside for the class to work on the section just discussed. During that time, each student will receive individual guidance from the trainers as well as prominent authors in the MCH field, including Drs. Debbie Klein Walker from Abt Associates, Pat O’Campo from the University of Toronto, Reem Ghandour from MCHB, Stephen Blumberg from CDC/NCHS and Laura Schieve from CDC/NCBDDD.

Other Possible Outcomes: Homemade baked goods may be served.

**MCH Leadership Competencies**

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Pre-Training Preparation: Participants are strongly encouraged to come to the training with either an abstract, manuscript outline, data analysis results, or a draft of an article that they would like to see turned into a manuscript.
Option 4: Leadership

Title: Using Communication to Create Change in Leadership

Trainers: Glynis Shea
Communications Director
Konopka Institute for Best Practices in Adolescent Health
University of Minnesota

Learning Outcomes:

Practical Outcomes:

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Pre-Training Preparation: