

PEHSU Modules for Nursing Students

| Module Title   | Type             | Comments  | BSN (pre licensure) |       | Post BSN/ANP |                            | Researchers | Practitioners |
|--|------------------|---|---------------------|-------|--------------|----------------------------|-------------|---------------|
|  |                  |   | Lower               | Upper | APHN         | APRN                       |             |               |
| Electronic Cigarettes - Miracle or Menace  | Grand Rounds     | Policy; how to screen adolescents   |                     | x     | x            | x                          |             |               |
| New Findings on Air Pollution and Pregnancy  | Grand Rounds     | reproductive health; some policy;   |                     | x     | x            | X (CNM, primary care APRN) |             |               |
| Particulate Matter & Public Health   | eLearning Module |   |                     |       | x            | x                          |             |               |
| Climate Change and Pediatric Health: What Providers Should Know and Do                 | Journal Club     |   |                     |       | x            | x                          |             |               |
| Climate Change and Its Impact on Women & Children's Health: Information for the PEHSUs | Grand Rounds     | Directed to PEHSU workers; not as good a fit for nursing in general   |                     |       |              |                            |             |               |
| All Terrain Vehicle Safety – The Last Ride   | eLearning Module | Injury prevention and public health focus   |                     | x     | x            | X in peds                  |             |               |
| Approaching Cases of the Environmental Exposure  | eLearning Module | Exposure hierarchy, case studies, risk communication; nurses who have some background in environmental toxicology, chemistry, heavy metals; |                     |       | x            |                            | x           | x             |

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| Cases and Controversies in Region 7                             | Case conference  | Focus on lead and mercury; case conferences  |  |  | X; help APHNs problem solve around other exposures | x |   |   |
| Childhood Diet and Arsenic Exposure: Interesting Clinical Cases | Case conference  | discussion of dietary sources of arsenic; presented by DNP prepared nurse                |  |  | x  | x |   |   |
| The Aliso Canyon Gas Leak: Public Health Roles and Responses    | Case conference  | Relevant to fracking; grad students or higher or those who see this in practice          |  |  | x  | x | x | x |
| Environmental Exposures and Cancer                              | eLearning Module | Grad students and higher; nurses with specific interest or practice need; assessing risk |  |  | x  | x | x | x |

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| Addressing parents' environmental health concerns about a community-level exposure | Grand Rounds | Any level of nursing; communication with parents; dealing with community wide exposures   | x | x | x | x |   | x |
| The Built Environment and Reducing Health Disparities                              | Grand Rounds | Nurse presenter; any level of nursing (lower or higher), APHNs; APRNs, although it is broad public health                                 | x | x | x | x |   | x |
| Childhood Leukemia - A Preventable Disease?  | Grand Rounds | Focused on clinicians role in identifying exposures that increase risk to childhood leukemia; APRNs and grad students                     |   |   | x | x |   | x |
| Elemental Mercury Toxicity   | Grand Rounds | Graduate level or above; APHNs, too advanced for UG nursing students; APRN  |   |   | x | x |   |   |
| How to Reduce Your Exposure to Toxins  | Grand Rounds | Upper level UG nursing; addresses environmental exposures in limited time frame to assist faculty with teaching this content; APHN; APRNs |   | x | x | x |   | x |
| Introduction to EPA's Toxics Release Inventory                                     | Grand Rounds | Graduate students only; for researchers or those who will work in this area and want to be familiar with data set                         |   |   | x |   | x | x |

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| Marijuana and Its Impact on Adolescent and Perinatal Populations         | Grand Rounds | Upper level UG students in OB/Gyn/MCH; graduate students looking at working with adolescent or perinatal populations; APHNs                     |  | x | x | x |   | x |
| Marijuana and its Impact on Pediatric Populations                        | Grand Rounds | Graduate level; APRN and APHN, more detail on pathphys  |  |   | x | x |   | x |
| Old Poison, New Findings - Arsenic's Effect on Maternal and Child Health | Grand Rounds | Graduate level; APHN or APRN; strong emphasis on epidemiology; impact of arsenic on MCH outcomes  |  |   | x | x |   | x |
| Prenatal toxicant exposure and ovarian aging and cancer                  | Grand Rounds | Graduate level; maybe APHN, but mostly APRNs, particularly in women's health  |  |   | x | x |   | x |
| Endocrine Disruptors   | Journal Club | Grad students and above, both practitioners and researchers; APHN   |  |   | x | x |   | x |
| Hormesis - Do Little Things Matter?                                      | Journal Club | Grad level; researchers; dose response relationship   |  |   | x | x | x | x |
| Public Health Response to Large Scale Water Contamination                | Journal Club | APHNs, graduate level or higher; delves into policy in Flint-timely; public health response to outbreak; clinicians interested in public health |  |   | x | x |   | x |

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| Mercury Poisoning Masquerading as a Viral Syndrome     | Grand Rounds (Table top format) | Graduate level or higher; focus on practitioners-APRNs; mostly focused on diagnosis and considering home environment           |  |   |   | x |   | x |
| Pediatric Asthma & Environmental Exposures             | eLearning Module                | Junior/Senior level nursing student interested in asthma management; environmentally induced asthma Grad student APHN and APRN |  | x | x | x |   | x |
| Taking an Exposure History                             | eLearning Module                | Clinicians approach; primary care APRNs; upper level UG students; APHN   |  | x | x | x |   | x |
| Utilizing the Environmental Public Health System       | eLearning Module                | APHN; good for practitioners understanding the public health system, but does not present clinical aspect; graduate level      |  |   | x |   |   |   |
| Environmental Health in Childcare Settings and Schools | Grand Rounds                    | Upper level UG nursing; graduate students-APRN and APHN;   |  | x | x | x |   | x |
| Pesticide Residues in the Indoor Environment           | eLearning Module                | APHN; graduate level or higher; some clinical aspects so might be of interest to APRN students                                 |  |   | x | x |   | x |
| Fracking Risks for Children                            | Grand Rounds                    | Health risks of natural gas exploration; graduate level, APHN and APRN   |  |   | x | x |   | x |
| Toxicology of Hydraulic Fracturing                     | eLearning Module                | Graduate level and above; advanced look at   |  |   | x | x | x | x |

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|  |                  | toxicology; deep look;<br>APHN and APRN  |  |   |   |   |  |   |
| Pesticides and Child Health: Exposure Recognition and Prevention     | eLearning Module | Graduate students or above; APHN and APRN;   |  |   | x | x |  | x |
| Pesticides Residues in the Indoor Environment                        | eLearning Module | Common exposures, biomonitoring; for those interest in pesticides; graduate level; APRNs and APHNs   |  |   | x | x |  | x |
| Understanding Pediatric Outcomes from Pesticides and Nitrates        | Grand Rounds     | Upper level UG students; pregnancy history, infant outcomes; graduate level for APHN and APRNs   |  | x | x | x |  | x |
| Fukushima and Chernobyl - The Near and Long-Term Effects On Children | Grand Rounds     | Specific exposure; graduate level; limited to APHN interested in this exposure and/or cancer; radionuclide release and specifics of exposure; APRNs; not primary care APRNs          |  |   | x | x |  |   |
| Insect Repellants and Pregnancy in the Zika Era                      | Grand Rounds     | Zika background; from June 2016 and knowledge is a bit outdated due to evolving knowledge on zika; toxicity data on insect repellants promoted by CDC; graduate level, APRN and APHN |  |   | x | x |  | x |
| Reproductive   | eLearning        | Graduate level;  |  |   | x | x |  |   |

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| Toxicology                             | Module           | practitioners and public health; FDA determination of pregnancy risk categories and politics; CNMs or those working with pregnant women and breastfeeding women |   |   |   |   |  |  |
| Endocrine Disruptors                   | eLearning Module | Graduate level; APRNs, discusses risk communication; APHNs; public health water quality; Water chemicals which mimic hormones, why problematic                  |   |   | x | x |  |  |
| Climate change and reproductive health | Grand Rounds     | Prevention and screening  | x | x | x | x |  |  |

**Journal club:** science behind the topics; presents recent publications for consideration/discussion; assumes some background in topic

**E learning module:** asynchronous; overall information on topic in interactive format

**Grand Rounds:** overview of topic with presenters and discussion; synchronous but then recorded and posted for later asynchronous viewing

**Case conferences:** higher level case study; requires some knowledge of topic