

ENV H 597 A: Case Studies in Occupational and Environmental Health

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[ENV H 597A: Case Studies in Occupational and Environmental Health](#)

Quarter: Winter 2017

Day/Time: Thursdays, 2:45pm - 3:30pm

Location: 4225 Roosevelt Way, Room 2228 (the 'Fish bowl')

Instructor: Debbie Cherry, MD, MS; Associate Professor, Department of Environmental and Occupational Health Sciences; Phone: (206) 744-9398; E-mail: cherryd@u.washington.edu

Office Hours: By appointment

Course Description: In this course, Occupational and Environmental Medicine residents will discuss the details of clinical cases encountered at Harborview's Occupational Medicine Clinic, and also at Occupational Medicine Clinics in the community. One occupational injury or disease case will be presented and discussed at each session. The occupational injury or disease topics will be determined ahead of time. Residents may also choose an 'alternative topic' from the list of options provided each week. Each resident will present 2-3 cases during the quarter. Residents will use the following format for presenting cases:

Presentation Format:

15 min: Case presentation

10 min: Q & A Discussion including faculty input and participation

20 min: Teaching Points, including:

- Epidemiology and work relatedness
- Key physical examination and provocative maneuvers
- Pertinent diagnostics
- Differential diagnoses
- Disease management and clinical course
- Work restrictions/accommodations

For each case presented, residents will prepare a **1 - 2 page summary of teaching points** for the occupational injury or disease topic covered. This summary will highlight the teaching points outlined above and also include **a list of key** references, including at least one scholarly article. Residents may also opt to prepare a powerpoint presentation of the case with associated key teaching points in lieu of the summary handout. Residents will email this summary handout and/or presentation to Esi Nkyekyer (esink@uw.edu) after each case presentation to be uploaded onto the course Canvas website.

Course Learning Objectives: The focus of the Winter 2017 quarter for ENV H 597A is Occupational and Environmental Exposures, including exposures to metals, chemicals and pesticides. By the end of this quarter, residents will be able to :

1. Describe the epidemiology of prevalent occupational and environmental exposures and their associated disease processes
2. Explain and discuss the challenges associated with determining work-relatedness of occupational and environmental exposures
3. Diagnose and manage diseases associated with prevalent occupational and environmental exposures
4. Recommend appropriate occupational (and non-occupational) accommodations and restrictions for diseases associated with prevalent occupational and environmental exposures
5. Understand the clinical course of diseases associated with prevalent occupational and environmental exposures

Evaluation Methods: The instructor will assign a grade based on attendance, presentations, teaching handouts and class participation.

Recommended Resources:

1. Rosenstock, L et al (2004). Textbook of Clinical Occupational and Environmental Medicine, 2nd Edition. Philadelphia. Elsevier Saunders.
2. [LaDou J, et al \(2014\). CURRENT Occupational and Environmental Medicine, 5th Edition. New York. McGraw-Hill. \(http://accessmedicine.mhmedical.com/offcampus.lib.washington.edu/book.aspx?bookid=1186\)](http://accessmedicine.mhmedical.com/offcampus.lib.washington.edu/book.aspx?bookid=1186)
3. Melhorn JM, et al (2013). AMA Guides to the Evaluation of Disease and Injury Causation, 2nd Edition. AMA

Occupational and Environmental Medicine Resident Didactic Series

Quarters: Winter 2017

Day/Time: Thursdays, 2:00pm - 2:45pm

Location: 4225 Roosevelt Way, Room 2228 (the 'Fish bowl')

Instructor: Debbie Cherry, MD, MS; Associate Professor, Department of Environmental and Occupational Health Sciences; Phone: (206) 744-9398; E-mail: cherryd@u.washington.edu

Office Hours: By appointment

Course Description: Please note that this didactic series will precede ENV H 597A, but is not a required part of the ENV H 597A course. This didactic series is specifically targeted to Occupational and Environmental Medicine (OEM) Residents. The primary objective of this course is to discuss topics pertinent to Occupational and Environmental Medicine, not covered elsewhere in the curriculum, particularly

pertaining to preventive medicine and related public health topics. Residents will be assigned selected topics to present and discuss each week, with the goal of providing an overview of risk factors, associated social determinants, epidemiologic trends, as well as effective preventive and treatment interventions. Residents are encouraged to incorporate board-review style questions in their presentations to augment the learning process.

Presentation format:

20-30 minutes: Teaching presentation

10 - 15 minutes: Board review questions

Course Learning Objectives: The areas of focus of the Winter 2017 quarter for the resident didactic series are **Behavioral Health, Cardiovascular Disease Prevention, and Metabolic Disorders & Nutrition, Maternal and Child Health.** By the end of the quarter, residents will be able to:

1. Understand **theories of behavior change**, behavioral intervention strategies, and intervention development and evaluation at the individual and community levels.
2. Understand the risk factors, epidemiology, and role of social determinants in the development and outcomes of **mental and behavioral disorders** such as depression, anxiety and severe mental illness; discuss effective preventive and therapeutic intervention strategies for these disorders.
3. Understand the risk factors, epidemiology, and role of social determinants in the development and outcomes of **alcohol and substance abuse disorders**; discuss effective preventive and therapeutic intervention strategies for these disorders.
4. Understand the risk factors, epidemiology, and role of social determinants in the development and outcomes of **tobacco use disorders**; discuss effective preventive and therapeutic intervention strategies for these disorders.
5. Understand the risk factors, epidemiology, and role of social determinants in the development and outcomes of **cardiovascular diseases** such as coronary artery disease, cerebrovascular disease, hypertension and hyperlipidemia; discuss effective preventive and therapeutic intervention strategies for these conditions.
6. Understand the risk factors, epidemiology, and role of social determinants in the development and outcomes of **metabolic diseases and conditions** such as diabetes, obesity, thyroid disease; discuss effective preventive and therapeutic intervention strategies for these conditions including the role of clinical nutrition.
7. Understand the risk factors, epidemiology, and role of social determinants in the development and outcomes of **maternal and child health** including infant mortality and women's reproductive health; discuss effective preventive and therapeutic intervention strategies for these conditions.

Recommended Resources:

1. **Wallace R (2008). Public Health and Preventive Medicine. New York. McGraw-Hill**
(<http://www.r2library.com.offcampus.lib.washington.edu/resource/title/0071441980>) (Maxcy-Rosenau-Last)
2. **Feldman, MD et al (2014). Behavioral Medicine: A Guide for Clinical Practice, 4th Edition. New**

[York. McGraw-Hill. \(http://accessmedicine.mhmedical.com.offcampus.lib.washington.edu/book.aspx?bookid=1116\)](http://accessmedicine.mhmedical.com.offcampus.lib.washington.edu/book.aspx?bookid=1116)





3. [Talmadge EK et al \(2016\). Medical Management of Vulnerable and Underserved Patients: Principles, Practice and Populations, 2nd Edition. New York. McGraw-Hill. \(http://accessmedicine.mhmedical.com.offcampus.lib.washington.edu/book.aspx?bookid=1768\)](http://accessmedicine.mhmedical.com.offcampus.lib.washington.edu/book.aspx?bookid=1768)

Readings and Other Preparatory Materials: All course materials or links to materials will be posted on the class website. All students are expected to be able to access class materials via the course website. If this presents a problem, students are expected to let the instructor know immediately. Please be advised that to use the electronic material on the course website, you must agree to the following statement: The copyright law of the United States (Title 17, United States Code) governs the making of photocopies or other reproductions of copyrighted materials. Under certain conditions specified in the law, libraries and archives are authorized to furnish a photocopy or other reproduction. One of these specified conditions is that the photocopy or reproduction is not to be used for any purpose other than private study, scholarship, or research. If a user makes a request for, or later uses, a photocopy or reproduction for purposes in excess of fair use that user may be liable for copyright infringement.

Access and Accommodations: Your experience in this class is important to us, and it is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law. If you experience barriers based on a disability or temporary health condition, please seek a meeting with Disability Resources for Students (DRS) to discuss and address them. If you have already established accommodations with DRS, please communicate your approved accommodations to your instructor at your earliest convenience so we can discuss your needs in this course. DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an interactive process between you, your instructor(s) and DRS. If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (this can include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206- 543-8924 or uwdrs@uw.edu or disability.uw.edu

Academic Integrity: Students at the University of Washington (UW) are expected to maintain the highest standards of academic conduct, professional honesty, and personal integrity. The UW School of Public Health (SPH) is committed to upholding standards of academic integrity consistent with the academic and professional communities of which it is a part. Plagiarism, cheating, and other misconduct are serious violations of the University of Washington Student Conduct Code (WAC 478-120). We expect you to know and follow the university's policies on cheating and plagiarism, and the SPH Academic Integrity Policy. Any suspected cases of academic misconduct will be handled according to University of Washington regulations. For more information, see the University of Washington Community Standards and Student Conduct website. Classroom climate: The UW School of Public Health seeks to ensure all students are fully included in each course. We strive to create an environment that reflects community and mutual caring. We encourage students with concerns about classroom climate to talk to your instructor, your advisor, a member of the departmental or SPH Diversity Committee and/or the program director.

Course Summary:

Date	Details	
Thu Jan 12, 2017	 A Welder with Manganese Exposure -- Priya Motz (https://canvas.uw.edu/courses/1099276/assignments/3542114)	due by 2pm
	 Health Promotion and Health Screening: Health Education Theories and Behavioral Models -- Demitris Haldeos (https://canvas.uw.edu/courses/1099276/assignments/3542255)	due by 2pm
Thu Jan 19, 2017	 A Case of Ocular & Pulmonary Irritant Exposure/Environmental Mercury Exposure -- Demitris Haldeos (https://canvas.uw.edu/courses/1099276/assignments/3542117)	due by 2pm
	 Depression, Anxiety and Severe Mental Illness -- Eric Barton (https://canvas.uw.edu/courses/1099276/assignments/3542263)	due by 2pm

Thu Jan 26, 2017	<p>Ei A Pesticide Technician with Pyrethroid Exposure -- Eric Barton (https://canvas.uw.edu/courses/1099276/assignments/3542118)</p> <p>Ei OEM Administrative Session (https://canvas.uw.edu/courses/1099276/assignments/3542271)</p>	due by 2pm due by 2pm
Thu Feb 2, 2017	<p>Ei A Construction Worker with Hydrochloric Acid Exposure -- Esi Nkyekyer (https://canvas.uw.edu/courses/1099276/assignments/3542122)</p> <p>Ei Alcohol and Drug Abuse -- Priya Motz (https://canvas.uw.edu/courses/1099276/assignments/3542276)</p>	due by 2pm due by 2pm
Thu Feb 9, 2017	<p>Ei Occupational Pulmonary Cases: A Geologist with Silica Exposure -- Priya Motz. [Visiting Expert: Randall J. Nett, MD MPH] (https://canvas.uw.edu/courses/1099276/assignments/3542126)</p> <p>Ei Occupational Pulmonary Cases: Silica Exposure Case -- Esi Nkyekyer; A Case of Occupational Constrictive Bronchiolitis -- Sverre Vedal [Visiting Expert: Randall J. Nett, MD MPH] (https://canvas.uw.edu/courses/1099276/assignments/3542282)</p>	due by 2pm due by 2pm
Thu Feb 16, 2017	<p>Ei A Case of Occupational Chromate-based Paint Exposure -- Demitris Haldeos (https://canvas.uw.edu/courses/1099276/assignments/3542139)</p> <p>Ei Cardiovascular Disease Prevention: Hypertension and Hyperlipidemia -- Eric Barton; Cardiovascular Disease Prevention: Coronary Artery Disease and Cerebrovascular Disease -- Esi Nkyekyer (https://canvas.uw.edu/courses/1099276/assignments/3542290)</p>	due by 2pm due by 2pm
Thu Feb 23, 2017	<p>Ei A Boiler Maker with Vanadium Exposure -- Eric Barton (https://canvas.uw.edu/courses/1099276/assignments/3542146)</p> <p>Ei Metabolic Disorders and Nutrition: Diabetes -- Esi Nkyekyer (https://canvas.uw.edu/courses/1099276/assignments/3542291)</p>	due by 2pm due by 2pm
Thu Mar 2, 2017	<p>Ei A Mail Processing Mechanic with Exposure to Steel Shavings -- Esi Nkyekyer (https://canvas.uw.edu/courses/1099276/assignments/3542164)</p> <p>Ei Metabolic Disorders and Nutrition: Obesity -- Demitris Haldeos (https://canvas.uw.edu/courses/1099276/assignments/3542296)</p>	due by 2pm due by 2pm
Thu Mar 9, 2017	<p>Ei Exposure Case -- Doreen Yumang Ross (https://canvas.uw.edu/courses/1099276/assignments/3542172)</p> <p>Ei Maternal and Child Health: Women's Reproductive Health and Infant Mortality - Priya Motz (https://canvas.uw.edu/courses/1099276/assignments/3542309)</p>	due by 2pm due by 2pm