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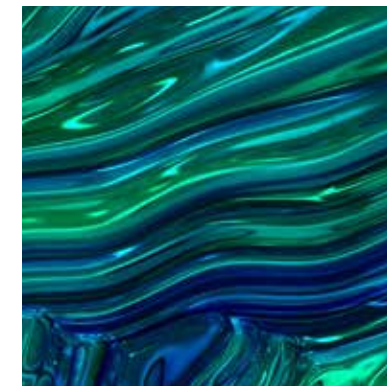
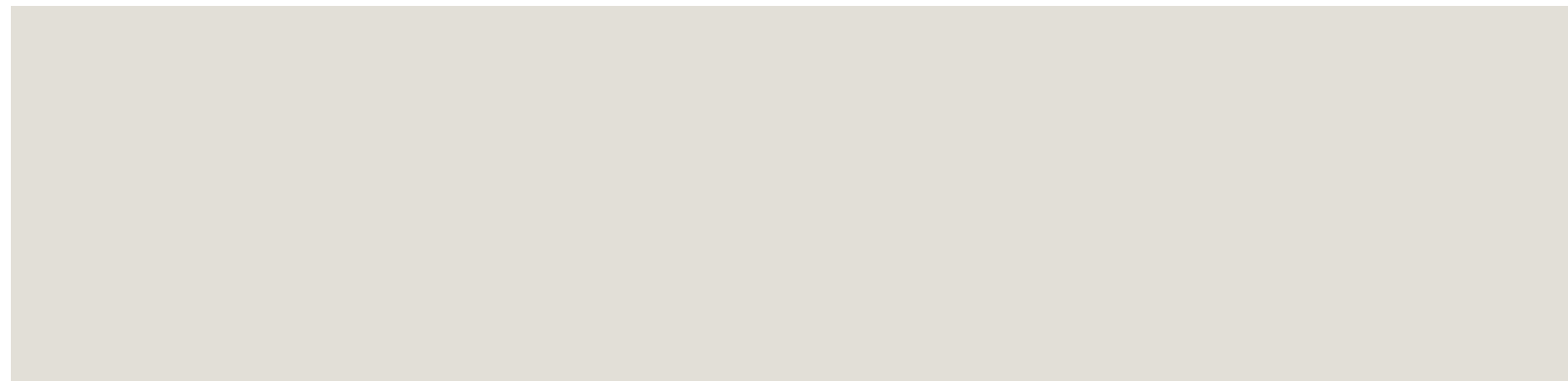
14th Annual

PREVENTING AND TREATING BIOLOGICAL EXPOSURES:

AN OCCUPATIONAL HEALTH COLLOQUIUM

June 12-14, 2024

in Tacoma, Washington at the Hotel Murano



OCEAN Accreditation Statement: This activity has been submitted to Oregon Nurses Association for approval to award contact hours. Oregon Nurses Association is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

ACCME Accreditation Statement: "This activity has been submitted to ACOEM for approval to award contact hours. The ACOEM is accredited by the ACCME to provide continuing medical education to physicians."

ABSA Credentialing Maintenance (CM) Points Available



**ABSA
INTERNATIONAL**



AMERICAN COLLEGE OF
OCCUPATIONAL AND
ENVIRONMENTAL MEDICINE

PRECONFERENCE COURSES:

WEDNESDAY, JUNE 12, 2024

8:00 AM – 12:00 PM - PRINCIPLES OF BIOSAFETY FOR OCCUPATIONAL HEALTH PROFESSIONALS

Paul Meechan, PhD, MPH, RBP, CBSP; Elyn Segal, PhD; Maureen Thompson, BSN, RN, COHN-S, RBP

Participants will gain an understanding of biosafety concepts associated with biological materials in various laboratory settings. Class content and discussion will include regulatory standards and guidelines, hazard identification, risk assessment and risk mitigation. This class is appropriate for both healthcare providers and for biosafety professionals who would like to enhance communication and understanding of medical providers' perspectives.

1:00 PM – 5:00 PM - BSL3/ABSL3: OCCUPATIONAL HEALTH CONSIDERATIONS

Michelle Gochnour, MN, RN, COHN-S; Maureen Thompson, BSN, RN, COHN-S, RBP; Gary Fujimoto, MD

How do you prevent and treat biological exposures for those working in biosafety level 3 containment? What is different from occupational health for BSL-2 or lower containment? How does work with animals in the BSL-3 impact occupational health? This session will walk through the occupational health program with emphasis on how to plan, execute and update your program. Content will include risk assessment, pre-placement/periodic surveillance and return to work/fitness for duty considerations, exposure and emergency planning, and the role of the occupational health professional.

COLLOQUIUM:

THURSDAY, JUNE 13, 2024

8:30 AM WELCOME

SESSION 1: TUBERCULOSIS

Facilitator: Amy Behrman, MD, FACP, FACOEM, University of Pennsylvania

Mycobacterium Tuberculosis has been a leading cause of death throughout much of human history, and remains so today despite 150 years of diagnostic development and nearly a century of antibiotic availability. The disease is endemic in much of the world and continues to impact communities and workforces globally. Countries with low TB burden must still grapple with imported and reactivated infections, including multi-drug resistant strains. In research settings, concerns extend to laboratorians, staff working in endemic locations, and highly vulnerable laboratory animal species. This session will focus on current developments in epidemiology, diagnostics and therapeutics. Case studies and a panel discussion will provide opportunities to address issues specific to occupational and research exposures.

8:45 AM TB IN RESEARCH SETTINGS: MANAGING BI-DIRECTIONAL RISKS

Amy Behrman, MD, FACP, FACOEM, University of Pennsylvania

9:00 AM TB AND MDR-TB: EPIDEMIOLOGY, TREATMENT, AND PROPHYLAXIS

Randall Reves, MD, University of Colorado School of Medicine

9:50 AM BREAK

10:10 AM NEW TECHNOLOGIES AND STRATEGIES FOR TB DIAGNOSTICS AND TREATMENT

Wendy Thanassi, MD, Department of Veterans Affairs and Qiagen

11:00 AM CASE STUDIES

11:30 AM PANEL DISCUSSION WITH ALL SPEAKERS

12:00 PM LUNCH

SESSION 2: VIRAL VECTORS & GENE THERAPY

Facilitator: Elyn Segal, PhD, Biosafety Consultant

1:00 PM AN UPDATE ON RISKS AND MANAGEMENT FOR LENTIVIRAL AND RETROVIRAL VECTOR EXPOSURES

Gary Fujimoto, MD, Occupational Health Consultant

This program will discuss new issues associated with lentiviral and retroviral vectors along with updated recommendations for post-exposure prophylaxis. With the FDA approvals for multiple vector-based therapies, the number of individuals working with these agents is rapidly expanding. While these technologies generally involve replication-deficient agents, the potential hazards associated with transgene incorporation into one's genome need to be conveyed to all those working with these vectors.

2:30 PM BREAK

2:50 PM ACHIEVEMENTS AND PERSPECTIVES IN GENE THERAPY

Garry Coulson, PhD, RBP, Clinical Biosafety Services

Clinical trials utilize a wide array of gene transfer platforms for the delivery of therapeutic products for the treatment of a spectrum of cancers, infectious diseases, and rare disorders. These platforms range from the relatively lower biosafety risk technologies such as messenger RNAs (mRNAs) and DNA plasmids to the more consequential viral vector platforms that may pose significantly greater occupational risks to staff members and the public that may come into direct contact with these products. In this talk, we will highlight some contemporary gene transfer platforms currently in use in the clinic and discuss biosafety and occupational health considerations when working with such products.

3:50 PM PANEL DISCUSSION

SESSION 3: BMBL AND OCCUPATIONAL HEALTH

Facilitator: Elyn Segal, PhD, Biosafety Consultant

4:15 PM HOW THE BMBL CAN ASSIST OCCUPATIONAL HEALTH PROFESSIONALS: A DISCUSSION WITH AN EDITOR

Paul Meechan, PhD, MPH, RBP, CBSP, Biosafety Consultant

The 6th edition of the BMBL provides some specific recommendations for occupational health, but there is additional information available that may be useful to a practitioner. This session has three major goals: provide an overview of additional information in the BMBL that can assist an

occupational health professional; provide a period for audience questions; and end with a case study based on an actual event. The case study will help participants recognize options available to identify, triage, and potentially treat exposures.

5:00 PM CONCLUSION

6:30 PM CLASS DINNER

FRIDAY, JUNE 14, 2024

SESSION 4: MALARIA RESEARCH, MEDICAL SURVEILLANCE AND POST EXPOSURE FOLLOW-UP

Facilitator: Michelle Gochnour, MN, RN, COHN-S, Seattle Children's Research Institute

8:30 AM MALARIA RESEARCH WITH MOSQUITOS AND HUMANIZED MICE

Ashley Vaughan, PhD, Seattle Children's Research Institute

Ashley studies *Plasmodium*, the eukaryotic pathogen that causes malaria. The human malaria parasite *Plasmodium falciparum*, causes upwards of 400,000 deaths per year, mostly in sub-Saharan Africa. The life cycle of the parasite is complex, alternating between a mosquito vector and the human host. To study the complete *Plasmodium falciparum* life cycle in a lab setting, Ashley and his team run an insectary to produce mosquitoes. In addition, human liver-chimeric mice are used to study the initial stages of the human life cycle. This unique process leads to gain insights that can help develop novel means of intervention. Ashley's work involves some specific biosafety approaches that will be discussed.

9:15 AM MALARIA: CASE REVIEW AND EXPOSURE MANAGEMENT 2024

Marte' Brady, ARNP and Anne Terry, RN, MSN, ARNP, CTH, CTropMed, University of Washington

The purpose of this presentation is to update employees and scientists on *Plasmodium* species (malaria) and risk for exposure to laboratory workers. This discussion will include a case review, information on medical management plans and post exposure prophylaxis.

10:00 AM PANEL DISCUSSION

10:25 AM BREAK

SESSION 5: HERPES B

Facilitator: Maureen Thompson, BSN, RN, COHN-S, RBP, Emory University



Katie Ayres, BSN, RN, COHN-S, Seattle Children's Research Institute



Amy Behrman, MD, FACP, FACOEM, University of Pennsylvania



Marte' Brady, ARNP, University of Washington (Retired)



Garry Coulson, PhD, RBP, Clinical Biosafety Services



Gary Fujimoto, MD, Occupational Health Consultant



Michelle Gochnour, MN, RN, COHN-S, Seattle Children's Research Institute



Paul Meechan, PhD, MPH, RBP, CBSP, Biosafety Consultant



Randall Reves, MD, University of Colorado School of Medicine



Elyn Segal, PhD, Biosafety Consultant



Rebecca Stenberg, MN, BSN, COHN-S, PHNA-BC, University of Washington



Anne Terry, ARNP, CTH, CTropMed, University of Washington



Wendy Thanassi, MD, Department of Veteran Affairs and Qiagen



Maureen Thompson, BSN, RN, COHN-S, RBP, Emory University



Ashley Vaughan, PhD, Seattle Children's Research Institute

10:45 AM HERPES B-VIRUS EXPOSURE FOLLOW-UP AND CASE MANAGEMENT

Rebecca Stenberg, MN, BSN, COHN-S, PHNA-BC, University of Washington

This session will address numerous challenges associated with the management of Herpes B-virus exposures, offering follow-up recommendations. Additionally, diverse perspectives on interpreting the guidelines will be examined. Attendees are encouraged to engage in discussions about current developments in the field, share their experiences, and explore potential solutions.

12:00 PM LUNCH

SESSION 6: SHARPS

Facilitators: Michelle Gochnour, MN, RN, COHN-S, & Katie Ayres, BSN, RN, COHN-S, Seattle Children's Research Institute

1:00 PM SHARPS SAFETY 102: CHANGING THE LABORATORY SHARPS CULTURE

A panel will discuss collaborative efforts in improving sharps safety culture, including success stories from different organizations and participant problem-solving of cases to determine better sharps safety solutions.

2:30 PM BREAK

SESSION 7: TRAVEL MEDICINE

Facilitator: Michelle Gochnour, MN, RN, COHN-S, Seattle Children's Research Institute

2:45 PM PREPARATION FOR INTERNATIONAL TRAVEL FOR THE RESEARCH SCIENTIST

Marte' Brady, ARNP and Anne Terry, ARNP, CTH, CTropMed, University of Washington

This presentation will provide the research scientist with the most up to date information on travel vaccinations, malaria prophylaxis, insect bite avoidance and prevention and treatment of traveler's diarrhea. In addition, case studies related to prevention and treatment of travel related exposures will be included.

4:00 PM OPEN DISCUSSION: CURRENT TOPICS OF CONCERN

Discussion Facilitated by Planning Committee

5:00 PM CONCLUSION

REGISTRATION INFORMATION

Register online at www.eagleson.org/OCC or call 207-490-1076

COLLOQUIUM

before May 3, 2024 \$1395, after May 3, 2024 \$1445

Colloquium fees include attendance at all colloquium sessions, lunch on Thursday and Friday, and dinner on Thursday evening.

PRECONFERENCE COURSES

Principles of Biosafety for Occupational Health Professionals \$395
BSL3/ABSL3: Occupational Health Considerations \$395

PROMOTIONS:

SAVE \$200 by attending both Preconference Courses and Colloquium!

CANCELLATION POLICY

Cancellations 31 days prior to start date of class will be refunded in full minus a \$75.00 processing fee. No refunds will be given with less than 30 days' notice, or if student fails to attend. Substitutions can be made at any time. Cancellation fees may be waived if there is a waiting list and a replacement can be made ~ a \$75.00 processing fee will apply.