

OSMT Professional Development Workshop Descriptions

Basic Electrocardiography

Presenter:

Euretha Hayde
Teacher/ Consultant in Cardiovascular Technology,
and founder of Electro-ayde

Learning Objectives:

At the end of the course, participants will have an understanding of:

- Recognize and troubleshoot common EKG problems.
- Make a tracing of diagnostic quality.
- Record time measurements from an EKG and determine whether they are normal.
- Identify and correct types of artefact.

Target Audience

Those who are required to record Electrocardiograms without having received training from a registered Cardiovascular Technology professional.

Course Objective:

To teach those who are not graduates of a Cardiovascular Technology program how to accurately record an Electrocardiogram and know if it is normal.

Intestinal Parasitology

Presenter:

David M. Raymondo, MLT, CLS (M)
Diagnostic Parasitology
Gamma-Dynacare Medical Laboratories – Ottawa

Course Objectives:

To give the medical laboratory technologist and technician a basic overview of Intestinal Parasitology and Medical Entomology. The following topics will be discussed:

- New trends and emerging parasites
- Microscopy
- Ova and parasite set-up procedures
- Introduction to the Helminths, Entamoeba species, non-Entamoeba species, Flagellates, Coccidia and Microsporidia
- Medical Entomology
- Review of QMP-LS reporting guidelines
- Case studies

Learning Objectives:

At the end of the course, participants should have a basic knowledge of:

- New and emerging parasites including Babesia species

- Calibration of ocular micrometers and using the vernier scale
 - Special stains and the concentration process
 - Helminths (worms) and the pathogenic and non-pathogenic protozoa
 - Identification of lice, fleas and ticks (arthropods)
 - Reporting protocol - QMP-LS: Should non-pathogens be reported?
 - Students will take home to their laboratories a comprehensive training manual to track their progress
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Introduction to Human Genetics, Cytogenetics & Molecular Genetics Technologies

Presenters:

Ellen Mak-Tam, BSc., MLT, ART
Lab Manager, Genetics Program
Dara Kennedy, BSc., MLT
North York General Hospital

This introductory level course provides an overview of human genetics and genetics technologies. It would benefit any health care professional who wishes to gain an understanding of common genetic disorders and current testing methods.

Course Content:

- Cell cycle, mitosis, chromosomes and DNA
- Patterns of inheritance
- Tissue culture, chromosome analysis, karyotype preparation
- DNA extraction, PCR, gel electrophoresis, sequencing
- Genetics referrals and diagnosis: prenatal, pediatric, adult and oncology

Objectives:

At the end of this course, participants will be able to:

- Explain the basic genetic patterns of inheritance
 - Identify affected individuals in a family pedigree
 - Describe Cytogenetics and Molecular Genetics methods
 - Explain how specific chromosomal and/or DNA changes results in genetic disorders
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Infection Prevention and Control

Presenter:

Nancy Brown, MLT, BSc.
Leader, Diagnostic Services
Huron-Perth Hospital Partnership, North System

Learning Objectives:

At the end of the course, participants will have an understanding of:

- The role of the Infection Control Practitioner (I.C.P.)
- The rationale for implementing an I.C. program
- I.C. precautions and isolation requirements
- Development and use of surveillance

- Sharps handling and injury follow-up
- Meaning of Antibiotic Resistant Organisms to I.C.P.
- Role of Lab worker in prevention and control

Course Objective:

- Explain the meaning and purpose of Infection Prevention and Control
 - Describe and explain the essential components of I.C. programs
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Autoantibody Diagnostics
Anti-Nuclear Antibodies (ANA) & Anti-Neutrophil Cytoplasmic Antibodies (ANCA)

Presenter:

Dr. Donglai Ma
Assistant Professor, Faculty of Health Sciences
McMaster University
Scientific Director
EUROIMMUN Medical Diagnostics Canada

Learning Objectives:

At the end of the course, the student will:

- Understand autoimmunity & autoantibodies
- Know the methods to detect autoantibodies
- Know how to guarantee the test quality
- Know how to analyze the results and do the report
- Understand the clinical significance of the autoantibodies

Course Objective:

- Teach the principal of autoantibody detection
- Teach the standard methods to detect autoantibodies
- Focus on ANA and ANCA testing – assays, result analysis and reporting