



In-Training Evaluation Report – Genetic and Genomic Diagnostic Specialty

NAME: Last Name _____ First Name _____

Date Training Started: _____ Full Time Part time

Training Stage: **Foundations of Discipline** Unit: **General Genetics Concepts 1**

Unit Start Date: _____ Unit End Date: _____

Training Site: _____ Supervisor: _____

Learning objectives associated with this unit:	Below expectations	Meets expectations	Exceeds expectations
ME 1.3 Apply knowledge of the relevance of cytogenetics in the context of germline or constitutional diagnosis and recurrence risk			
ME 1.3 Apply in-depth knowledge of the biology, structure, function, and mitotic/meiotic segregation of chromosomes, including the sex chromosomes, to explain the mechanisms and consequences of chromosome anomalies and mosaicism			
ME 1.3 Apply knowledge of the origins and clinical consequences of common chromosome anomalies, to the estimation of recurrence risk in offspring			
ME 1.3 Apply knowledge of population cytogenetics to the relative frequency of chromosome anomalies in conceptions, newborns and adults			
ME 1.3 Apply knowledge of the most recent guidelines or recommendations from the Canadian College of Medical Geneticists while reviewing and interpreting chromosome and FISH analysis			
ME 2.2 Achieve a basic level of chromosome recognition from normal blood lymphocytes on a print or at the microscope, of whole chromosome, whole arm, or G-band size anomalies			
ME 2.2 Demonstrate the ability to distinguish chromosome heteromorphisms, population variants and fragile sites from other anomalies and reports them when appropriate			
ME 3.1 Understand the benefits and limitations of different staining methods and FISH probe types to identify and characterize constitutional chromosome abnormalities			
ME 3.4 Perform all laboratory and analytical steps of the procedure to obtain banded chromosomes from constitutional specimens from culture to metaphase analysis			
ME 3.4 Apply knowledge of chromosome and FISH staining techniques in selection of the most useful approach for an abnormal finding and of the parameters influencing the results of chromosome and FISH analyses for effective troubleshooting			
ME 3.4 Perform all laboratory and analytical steps of the FISH procedure on metaphase and interphase cells			
COM 2.3 Apply proper use of current ISCN guidelines to describe all results			

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L 1.1 Apply standardized methods for FISH probe selection, validation, and interpretation of signal patterns including use of controls, in the detection of an anomaly			

Longitudinal Competencies:	Never	Rarely	Someti mes	Usually	Always
ME 1.3 Apply knowledge of the main clinical features of genetic disorders in the context of choice of testing procedure, result interpretation and report writing					
ME 1.6 Demonstrate insight into limits of expertise and seek consultation as necessary					
ME 2.1 Prioritize specimens and testing based on clinical indication and impact on medical management					
ME 2.2 Select ancillary tests in a resource-effective and ethical manner that balances costs with potential utility of results					
COM 4.1 Prepare clear, concise, comprehensive, and timely written reports for genetic tests that incorporate personal and family history and results from other relevant testing in answering the clinical question					
COL 1.2 Discuss trouble-shooting issues with colleagues in the genetic laboratory including laboratory members					
COL 1.2 Work effectively with laboratory technologists and laboratory assistants, directing their assistance as appropriate					
COL 2.1 Respond to requests and feedback in a respectful and timely manner					
L 1.1 Actively participates in quality control, quality assurance, and quality improvement initiatives					
L 3.1 Review quality control data, and take appropriate action for deficiency follow-up, including possible sample mix-up					
HA 1.3 Understand the clinical implications of incidental findings, approaches to minimize the chance of finding them, and policies for reporting					
S 1.2 Identify opportunities for learning and improvement by regularly reflecting on and assessing personal performance					
S 2.4 Participate in available learning activities					
P 1.2 Demonstrate a commitment to excellence in all aspects of laboratory practice					
P 3.1 Adhere to the relevant codes, policies, standards, and laws governing laboratory practice including accreditation, standard operating procedures, training and competency, safety, and privacy					

Technical and Interpretative requirements have been completed for this unit Yes No

If no, justify in the section below.

Summarize the trainee's performance for this unit and formulate recommendations for future improvement



Name/Signature of evaluator(s) _____

Date _____

Name/Signature of Program Director _____

This is to attest that I have read this document

Signature of Trainee _____