In-Training Evaluation Report – Genetic and Genomic Diagnostic Specialty

NAME: Last Name _____ First Name _____

Date Training Started: _____ Full Time ☐ Part time ☐

Training Stage: **Core** Unit: **Structural Variation and Advanced Chromosome Analysis**

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 clinical implications and reproductive and recurrence risks for a carrier of a structural chromosome anomaly			
ME 1.3 Apply knowledge of the implications of chromosome mosaicism in performing a thorough investigation and reporting appropriately			
ME 1.3 Apply knowledge of recurrent microdeletion and microduplication syndromes, their underlying genomic architecture and the mechanism contributing to their recurrence in the context of report writing and recommendation for parental studies			
ME 1.3 Apply knowledge of the origins and clinical effects of X and Y chromosome aneuploidy and structural anomalies, including the effect of X-inactivation			
ME 1.3 Apply knowledge of the genetic mechanisms of DNA repair to the disorders resulting from their defects as well as the principles of chromothripsis and chromoanasynthesis in the context of clinical cytogenetics			
ME 1.4 Recognize structurally abnormal chromosomes in metaphases, karyotypes and inferences from chromosomal microarray results with appropriate follow-up test			
ME 1.4 Recognize well characterized cytogenetically visible unbalanced structural anomalies and describe their associated clinical features			
ME 2.2 Demonstrate the ability to distinguish between recombinant and derivative chromosomes and understand their different clinical significance			
ME 2.2 Demonstrate the ability to use chromosomal microarray SNP genotype (allele difference or B allele frequencies) to identify regions of homozygosity and describe their clinical significance (e.g. UPD, parental relationship), and to interpret complex rearrangements, mosaicism, chimerism, sample contamination, etc.			
ME 3.1 Describe the diagnostic testing methods for chromosome breakage syndromes, the associated recurrent chromosome findings, and their major clinical features			
ME 4.1 Coordinate the use of multiple diagnostic investigations to define a chromosome abnormality or heteromorphism, including appropriate use of			

different staining or molecular cytogenetic methods so as to ensure complementarity and efficiency			
COM 2.3 Apply proper use of the most recent ISCN to describe a chromosome anomaly			

Longitudinal Competencies:	Never	Rarely	Sometimes	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 _____