Table S1: Training Program Description

Session Title	Learning Objectives	
Pharmacogenomics Core Cor	epts	
Pharmacogenomics:	1. Explain relevant genomic terminology and concepts.	
Core Concepts	2. Identify pharmacokinetic and pharmacodynamics sources of genetic variation.	
	3. Describe the impact of common genetic variations in CYP450 enzyme	s on
	anticipated drug response.	
	4. Identify common genetic variants in drug transporters and drug targe (e.g. SLC01B1, VKORC1) that impact response to drug therapy	ets
Pharmacogenomics:	1. Interpret a genotype for a given P450 enzyme and describe anticipate	d
Application to Pharmacy	response on drug action.	
Practice	2. Describe the available information sources for interpreting	
	pharmacogenomic information	
	3. Describe the role of the CPIC guidelines.	
	4. Describe the pharmacist role in the field of pharmacogenomics	
Genotyping Laboratory	1. Describe the process of pharmacogenomics testing, from sample colle	ection
Procedures	to report generation.	
Applications of Pharmacoge		
Pharmacogenomics in	1. Identify which gene-drug relationships have evidence to support their	ir
Psychopharmacology:	implementation for antidepressant and antipsychotic therapy.	
Antidepressants,	2. Summarize the CPIC ¹ guideline recommendations for pharmacogene	tics of
Anxiolytics and	relevant antidepressant therapy including selective serotonin reuptak	
Antipsychotics	inhibitors and tricyclic antidepressants.	
	3. Discuss potential applications of pharmacogenetics to antipsychotic therapy.	
Pharmacogenomics:	 Describe the impact of genetic polymorphisms on anticipated response 	se to
Opioid therapy	opioid therapy.	
opiola alerapy	 Describe the evidence-based guideline recommendations for codeine 	
	therapy based on CYP2D6 genotype.	
Cardiovascular	 Describe the evidence and guideline recommendations for genotype s 	mide
Pharmacogenomics	warfarin dosing.	Junac
i minicogenomico	 Describe the impact of CYP2C19 polymorphisms on clopidogrel thera 	anv
	 Discuss the impact of SC01B1 polymorphisms on risk of adverse effect 	
	with simvastatin therapy.	
Case Discussions:	1. Intepret a pharmacogenetic testing report.	
Applying Pharmacogeno-	 For a given patient scenario, identify relevant pharmacogenetic variat 	tions
mic Testing in Practice	that may impact drug therapy, and develop recommendations to opti therapy.	
Implementing	1. Describe an approach to educate both a patient and other healthcare	
Pharmacogenomic	professionals about pharmacogenomics test results.	
Testing into Practice:	 Describe the key pieces of information to include in documentation of 	f
Communicating with Pati	pharmacogenomic testing results and treatment plans.	
-ents and the Health Care	 Discuss ethical and legal implications of pharmacogenomic testing. 	
Team		

¹CPIC - Clinical Pharmacogenetic Implementation Consortium https://cpicpgx.org/guidelines/