North Carolina Regulatory Affairs Forum

2020 Regulatory Affairs Certification Training Course Syllabus

	Pharmaceuticals and Biologics		Medical Devices and In Vitro Diagnostics		
Date	Lecture & Suggested Book Chapters	Lecturer	Lecturer	Lecture & Suggested Book Chapters	
2-Jun	Introduction Sect.I-Chapter 1 History of Food, Drug and Cosmetic Laws Sect.I-Chapter 2 Overview of Drug, Biologic, Device, Combination Product or Food Regulatory Pathways Sect.II-Chapter 1 Health Canada Organization and Its History of Regulating Health Products in Canada Sect.III-Chapter 1 Overview of Drug and Biologic Regulatory Pathways Sect.IV-Chapter 1 Clinical Trials, Good Clinical Practice, Regulations and Compliance	David Shoemaker	Kevin Barber	Introduction Sect.I-Chapter 1 History of Food, Drug and Cosmetic Laws Sect.I-Chapter 2 Overview of Drug, Biologic, Device, Combination Product or Food Regulatory Pathways Sect.I-Chapter 3 Clinical Trials: GCPs, Regulations and Compliance for Drugs, Biologics and Medical Devices Sect.II-Chapter 1 The New Medical Device Regulation and In Vitro Diagnostic Device Regulation Sect.II-Chapter 2 The European Medical Devices Legal System Sect.II-Chapter 3 Medical Devices: Legislation and Classification Sect.IV-Chapter 1 Health Canada	
9-Jun	Clinical Development and GCPs Sect.I-Chapter 3 Clinical Trials: GCPs, Regulations and Compliance for Drugs, Biologics and Medical Devices Sect.II-Chapter 3 Clinical Trial Applications, Good Clinical Practices Sect.III-Chapter 5 Medicinal Product Clinical Trials Sect.IV-Chapter 1 Clinical Trials, Good Clinical Practice, Regulations and Compliance	Liz Moore		Clinical Development and GCPs Sect.I-Chapter 3 Clinical Trials: GCPs, Regulations and Compliance for Drugs, Biologics and Medical Devices Sect.II-Chapter 7 Clinical Evaluation and Clinical Investigations Sect.IV-Chapter 2 Investigational Testing and Special Access Programme	
16-Jun	Preclinical Development and GLPs Sect.II-Chapter 2 Good Laboratory Practice for Nonclinical Laboratory Studies Sect.III-Chapter 4 Preclinical Testing and Good Laboratory Practices	Bre	nda Faiola	Preclinical Development and GLPs (Device biocompatibility) Sect.II-Chapter 6 Medical Device Preclinical Testing	

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23-Jun	CMC/Quality System Design & Development Sect.I-Chapter 4 Current Good Manufacturing Practices and Quality System Design Sect.II-Chapter 4 Good Manufacturing Practices and Establishment Licensing in Canada Sect.III-Chapter 7 Quality Systems and Inspectorate Process - Pharmaceuticals Sect.IV-Chapter 5 Stability Test Requirements Sect.IV-Chapter 6 Quality Systems and Inspectorate Process for Pharmaceuticals	Scott Burian		CMC/Quality System Design & DevelopmentSect.I-Chapter 4 Current Good ManufacturingPractices and Quality System DesignSect.II-Chapter 5 General Safety and PerformanceRequirements and Technical DocumentationSect.III-Chapter 3 Device Quality SystemsSect.IV-Chapter 5 Medical Device Quality SystemRequirementsSect IV-Chapter 9 Medical Device EstablishmentLicensing
30-Jun	Compliance, Regulatory Inspections, and Enforcement Sect.I-Chapter 2 Overview of Drug, Biologic, Device, Combination Product or Food Regulatory Pathways Sect.I-Chapter 3 Clinical Trials: GCPs, Regulations and Compliance for Drugs, Biologics and Medical Devices Sect.I-Chapter 6 Postapproval Submissions and Compliance: Prescription Drugs and Biologics Sect.I-Chapter 13 Biologics Compliance Sect.III-Chapter 7 Quality Systems and Inspectorate Process - Pharmaceuticals Sect.IV-Chapter 6 Quality Systems and Inspectorate Process for Pharmaceuticals	Sandy Kennedy		Compliance, Regulatory Inspections, and EnforcementSect.I-Chapter 2 Overview of Drug, Biologic, Device, Combination Product or Food Regulatory Pathways Sect.I-Chapter 3 Clinical Trials: GCPs, Regulations and Compliance for Drugs, Biologics and Medical DevicesSect.I-Chapter 5 Medical Device Submissions Sect.II-Chapter 8 Medical Device Conformity Assessment Procedure Sect.II-Chapter 9 Medical Device Compliance: Postmarket Requirements Sect.IV-Chapter 5 Medical Device Quality System Sect.IV-Chapter 5 Medical Device Quality System Requirements
7-Jul	Clinical Pharmacology	Mark Shelton	Cheng Li	Medical Device Design Process (Design Controls)Sect.I-Chapter 4 Current Good Manufacturing Practices and Quality System Design Sect.II-Chapter 5 General Safety and Performance Requirements and Technical Documentation Sect.III-Chapter 3 Device Quality Systems Sect.IV-Chapter 5 Medical Device Quality System Requirements

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14-Jul	Biologics and Biosimilars Sect.I-Chapter 12 Biologics Submissions	Charity Schuller	David Jensen	IDEs, etc (ex-US device clinical trial submissions)
	Sect.I-Chapter 14 Biosimilars Sect. II-Chapter 11 Biologics Submission, Approval and Postmarketing Sect.III-Chapter 10 Marketing Authorisations for			Sect.I-Chapter 5 Medical Device Submissions Sect.II-Chapter 7 Clinical Evaluation and Clinical Investigations Sect.III-Chapter 2 Technical and Regulatory
	Products Derived From Biotechnology Sect.IV-Chapter 10 High-Risk Products Derived from Biotechnology Sect.IV-Chapter 11 Biosimilars: Basics and Recent Developments Sect.IV-Chapter 12 Vaccines Sect.IV-Chapter 13 Products Manufactured from			Requirements Sect.IV-Chapter 2 Investigational Testing and Special Access Programme
	Human Blood and Plasma			
21-Jul	Regulatory Authority Meetings Sect.I-Chapter 2 Overview of Drug, Biologic, Device, Combination Product or Food Regulatory Pathways Sect.I-Chapter 12 Biologics Submissions Sect.II-Chapter 3 Clinical Trial Applications, Good Clinical Practices Sect.II-Chapter 5 New Drug Submission Process Sect.III-Chapter 1 Overview of Drug and Biologic Regulatory Pathways Sect.III-Chapter 6 Registration Procedures for Medicinal Products	Kevin Barber		Regulatory Authority Meetings Sect.I-Chapter 5 Medical Device Submissions
28-Jul	Clinical Protocols and Clinical Development Plans	Nick Kenny, Jack Modell, Ben Vaughn		Clinical Protocols and Clinical Development Plans
4-Aug	Pharmaceuticals, Generics, and OTC Drugs Sect.I-Chapter 7 Generic Drug Submissions Sect.I-Chapter 8 Patents and Exclusivity Sect.I-Chapter 9 Over-the-Counter (Nonprescription) Drug Products Sect. II-Chapter 8 An Overview of Pharmaceutical	Catherine Maher	Sheila Hemeon-Heyer	Device Classification and Regulatory Controls Sect.II-Chapter 1 The New Medical Device Regulation and In Vitro Diagnostic Device Regulation Sect.II-Chapter 3 Medical Devices: Legislation and Classification
	Intellectual Property Protection in Canada			Sect.IV- Chapter 6 Medical Device Classification

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Date	Lecture & Suggested Book Chapters	Lecturer	Lecturer	Lecture & Suggested Book Chapters	
	Sect. II-Chapter 10 Nonprescription Drugs				
	Sect.III-Chapter 8 Generic Medicinal Products				
	Sect.III-Chapter 9 Nonprescription Medicinal				
	Products				
	Sect.IV-Chapter 7 Generic Drug Products				
	Sect.IV-Chapter 8 Over-the-Counter (OTC)				
	Products				
11-Aug	INDs, IMPDs, CTAs, & CTXs	Karl	Maria Oyaski	In Vitro Diagnostics, "LDTs"/CLIA, Companion	
	Sect.I-Chapter 5 Prescription Product Drug	Whitney		Diagnostics	
	Submissions			Sect.I-Chapter 7 In Vitro Diagnostics Submissions	
	Sect.I-Chapter 12 Biologics Submissions			and Compliance	
	Sect.II-Chapter 3 Clinical Trial Applications, Good			Sect.II-Chapter 4 In Vitro Diagnostic Medical	
	Clinical Practices			Devices	
	Sect.II-Chapter 13 electronic Common Technical			Sect.III-Chapter 4 In Vitro Diagnostic Medical	
	Document (eCTD)			Devices	
	Sect.III-Chapter 2 Overview of Authorisation			Sect.IV-Chapter 4 In Vitro Diagnostic Medical	
	Procedures for Medicinal Products			Devices	
	Sect.III-Chapter 3 Adaptive and Alternative				
	Pathways				
	Sect.IV-Chapter 3 Premarket				
10 4	Requirements/Dossier Requirements	Rob	Ken Butz	510/k/s DMAs Canada Ell/(CE mank ata) int	
18-Aug	NDAs/BLAs, MAAs, JNDAs, NDSs		Ken Butz	510(k)s, PMAs, Canada, EU (CE mark, etc), Int.	
	Sect.I-Chapter 5 Prescription Product Drug	Woolson &		Sect.I-Chapter 5 Medical Device Submissions	
	Submissions	David		Sect.II-Chapter 8 Medical Device Conformity	
	Sect.I-Chapter 12 Biologics Submissions	Shoemaker		Assessment Procedure	
	Sect.II-Chapter 5 New Drug Submission Process Sect. II-Chapter 9 Abbreviated New Drug			Sect.II-Chapter 10 Medical Device National Particularities	
	Submissions			Sect.III-Chapter 1 Medical Device Premarket	
	Sect. II-Chapter 11 Biologics Submission,			Requirements	
	Approval and Postmarketing			Sect.IV-Chapter 3 Medical Device Submission and	
	Sect. II-Chapter 13 electronic Common Technical			Approval Process	
	Document (eCTD)			Sect.IV-Chapter 9 Medical Device Establishment	
	Sect.III-Chapter 2 Overview of Authorisation			Licensing	
	Procedures for Medicinal Products				

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	Sect.III-Chapter 3 Adaptive and Alternative Pathways Sect.III-Chapter 6 Registration Procedures for Medicinal Products Sect.IV-Chapter 4 Authorization Procedures for Pharmaceutical Products				
25-Aug	Advanced Medicinal Therapeutic Products	Tom Class	Kevin Barber	Special Programs (HDEs, Special Access, etc)Sect.I-Chapter 5 Medical Device SubmissionsSect.II-Chapter 8 Medical Device ConformityAssessment ProcedureSect.II-Chapter 10 Medical Device NationalParticularitiesSect.III-Chapter 1 Medical Device PremarketRequirementsSect.IV-Chapter 2 Investigational Testing andSpecial Access ProgrammeSect.IV-Chapter 3 Medical Device Submission andApproval ProcessSect.IV-Chapter 9 Medical Device EstablishmentLicensing	
1-Sep	Pediatric, Orphan Product and Expanded Access Development for Rare Diseases Sect.IV-Chapter 14 Principles of Rare Diseases and Orphan Products Development Sect.IV-Chapter 15 Global Pediatric Drug	Susan Watts	Sheila Hemeon- Heyer	Medical Device Software Sect.III-Chapter 6 Software	
8-Sep	Development Combination Products Sect.I-Chapter 2 Overview of Drug, Biologic, Device, Combination Product or Food Regulatory Pathways Sect.I-Chapter 4 Current Good Manufacturing Practices and Quality System Design	Vicki Gunto		Combination Products Sect.I-Chapter 2 Overview of Drug, Biologic, Device, Combination Product or Food Regulatory Pathways Sect.I-Chapter 4 Current Good Manufacturing Practices and Quality System Design Sect.I-Chapter 5 Medical Device Submissions Sect.II-Chapter 3 Medical Devices: Legislation and Classification	

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				Sect.IV-Chapter 2 Investigational Testing and Special Access Programme	
15-Sep	Prescription Product Labeling Sect.I-Chapter 10 Prescription Drug Labeling, Advertising and Promotion Sect.I-Chapter 15 Biologics Labeling, Advertising and Promotion Sect. II-Chapter 12 Labelling, Advertising and Promotion: Prescription Pharmaceutical Drugs, Biologics and Radiopharmaceuticals	Diana Fordyce & Theresa Scocca		Prescription Product Labeling Sect.I-Chapter 8 Advertising, Promotion and Labeling for Medical Devices and In Vitro Diagnostics (IVDs) Sect.IV-Chapter 7 Medical Device Labelling, Advertising and Promotion	
22-Sep	Pharmacovigilance and Risk Management Sect.I-Chapter 11 Pharmacovigilance and Risk Management Sect.II-Chapter 7 Health Product Vigilance and Risk Management Sect.II-Chapter 14 Product Lifecycle Management Sect.III-Chapter 12 Pharmacovigilance	Lisa Hornick		Pharmacovigilance and Risk Management No chapters dealing with this topic.	
29-Sep	Postmarketing Sect.I-Chapter 6 Postapproval Submissions and Compliance: Prescription Drugs and Biologics Sect.II-Chapter 6 Postmarketing and Other Activities Sect.III-Chapter 11 Pharmaceutical Postauthorization Requirements and Compliance with the Marketing Authorisations Sect.IV-Chapter 2 International Advertising and Promotion Sect.IV-Chapter 9 Pharmaceutical Postmarketing and Compliance	Karin McInto & David Shoemaker		Postmarketing Sect.I-Chapter 6 Medical Device Compliance and Postmarketing Activities Sect.II-Chapter 9 Medical Device Compliance: Postmarket Requirements Sect.III-Chapter 7 Postmarket Requirements Sect.IV-Chapter 8 Medical Device Postmarketing	

Legend:

Blue text = US (1st 4 chapters in pharmaceuticals and biologics & devices are the same)

Green text = Canada

Red text = EU

Teal text = International

TEXTBOOKS available on the RAPS.org website:

Pharmaceuticals and Biologics:

VOL 1 Fundamentals_of_Pharmaceutical_and_Biologics_Regulations

VOL 2 Fundamentals_of_Pharmaceutical_and_Biologics_Regulations

Medical Devices and In Vitro Diagnostics:

Fundamentals_of_Medical_Device_Regulations_Second Edition