

# Introduction to the Principles and Practice of Clinical Research (IPPCR)

September 2016 – April 2017

Introduction	
	<b>Welcome</b> (30 minutes) <b>John I. Gallin, M.D.</b> , Director, NIH Clinical Center
	<b>History of Clinical Research: A Merging of Diverse Cultures</b> (60 minutes) <b>John I. Gallin, M.D.</b> , Director, NIH Clinical Center  Chapter: 1
Module I: Study Design, Measurement, and Statistics	
Session 1	Unit 1: <b>Choosing a Research Question and Implications for Efficient Clinical Trials</b> (90 minutes) <b>John Powers, III, M.D.</b> , Senior Medical Scientist, National Cancer Institute (NCI) at Frederick  Chapter: 19, 25, 29
Session 2	Unit 2: <b>Overview of Clinical Study Design</b> (90 minutes) <b>Laura Lee Johnson, Ph.D.</b> , Associate Director, Division of Biometrics III, Office of Biostatistics, Office of Translational Sciences, Center for Drug Evaluation and Research U.S. Food and Drug Administration (FDA)  Chapter: 19
Session 3	Unit 3: <b>Design of Epidemiologic Studies</b> (90 minutes) <b>Laura Lee Johnson, Ph.D.</b> , Associate Director, Division of Biometrics III, Office of Biostatistics, Office of Translational Sciences, Center for Drug Evaluation and Research U.S. Food and Drug Administration (FDA)  Chapter: 18

Session 4	<p>Unit 4:  <b>Clinical Research from the Patient's Perspective</b>  (20 minutes)  <b>Jerry Sachs</b>, Manager of Guest Services (Retired)  Smithsonian Museum of Natural History</p> <p>Unit 5:  <b>Study Participant Selection</b>  (60 minutes)  <b>Catherine Stoney, Ph.D.</b>, Program Director  Prevention and Population Sciences Program  National Heart, Lung, and Blood Institute (NHLBI)</p> <p>Chapter: 2, 13, 19, 26</p>
Session 5	<p>Unit 6:  <b>Issues in Randomization</b>  (90 minutes)  <b>Paul Wakim, Ph.D.</b>  Chief Biostatistician, Biostatistics and Clinical Epidemiology Service,  NIH Clinical Center</p> <p>Chapter: 20, 24</p>
Session 6	<p>Unit 7:  <b>Overview of Hypothesis Testing</b>  (90 minutes)  <b>Paul Wakim, Ph.D.</b>  Chief, Biostatistics and Clinical Epidemiology Service,  NIH Clinical Center</p> <p>Chapter: 21, 24</p>
Session 7	<p>Unit 8:  <b>Sample Size and Power</b>  (90 minutes)  <b>Laura Lee Johnson, Ph.D.</b>, Associate Director, Division of Biometrics III,  Office of Biostatistics, Office of Translational Sciences, Center for Drug  Evaluation and Research  U.S. Food and Drug Administration (FDA)</p> <p>Chapter: 22, 24</p>
Session 8	<p>Unit 9:  <b>Conceptual Approach to Survival Analysis</b>  (90 minutes)  <b>Laura Lee Johnson, Ph.D.</b>, Associate Director, Division of Biometrics III,  Office of Biostatistics, Office of Translational Sciences, Center for Drug  Evaluation and Research  U.S. Food and Drug Administration (FDA)</p>

	Chapter: 23, 24
Session 9	<p>Unit 10:  <b>Measures</b>  (90 minutes)  <b>David Luckenbaugh, M.A.</b>, Biostatistician, Experimental Therapeutics and Pathophysiology Branch,  National Institute of Mental Health (NIMH)</p> <p>Chapter: 25, 26</p>
Session 10	<p>Unit 11:  <b>Quality of Life</b>  (90 minutes)  <b>Kevin Weinfurt, Ph.D.</b>, Professor, Department of Psychiatry and Behavioral Sciences and Department of Psychology and Neuroscience,  Duke Clinical Research Institute</p> <p>Chapter: 25</p>
Session 11	<p>Unit 12:  <b>Designing and Testing Questionnaires</b>  (60 minutes)  <b>Barbara Stussman, B.A.</b>, Survey Statistician  National Center for Complementary and Integrative Health (NCCIH)</p> <p>Chapter: 25</p>
Session 12	<p>Unit 13:  <b>Using Large Datasets for Population-Based Health Research</b>  (60 minutes)  <b>Leighton Chan, M.D.</b>, Chief, Rehabilitation Medicine Department  NIH Clinical Center</p> <p>Chapter: 28</p>
Session 13	<p>Unit 14:  <b>Secondary Data/Meta-Analysis</b>  (60 minutes)  <b>Charles Natanson, M.D.</b>, Senior Investigator and Head Anesthesia Section, Critical Care Medicine Department,  NIH Clinical Center</p> <p>Chapter: 27</p>
Session 14	<p>Unit 15:  <b>Module I Summary and Study Examples</b>  (90 minutes)  <b>Laura Lee Johnson, Ph.D.</b>, Associate Director, Division of Biometrics III,  Office of Biostatistics, Office of Translational Sciences, Center for Drug Evaluation and Research  U.S. Food and Drug Administration (FDA)</p>

	Chapter:
<b>Module II: Ethical, Legal, Monitoring, and Regulatory Considerations</b>	
Session 15	Unit 1: <b>Legal Issues in Clinical Research</b> (60 minutes) <b>Carrie Kennedy, J.D., R.N., Esq.</b> , Senior Attorney, HHS Office of the General Counsel, Public Health Division, National Institutes of Health Branch  Chapter: 11
Session 16	Unit 2: <b>Ethical Principles in Clinical Research</b> (90 minutes) <b>Christine Grady, R.N., Ph.D.</b> Head, Section on Human Subjects Research, Chief, Bioethics Department, NIH Clinical Center  Chapter: 2
Session 17	Unit 3: <b>Data and Safety Monitoring Committees</b> (90 minutes) <b>Pamela Shaw, Ph.D.</b> , Assistant Professor, Department of Biostatistics and Epidemiology, Perelman School of Medicine University of Pennsylvania  Chapter: 9
Session 18	Unit 4: <b>Institutional Review Boards</b> (90 Minutes) <b>Jerry Menikoff, M.D., J.D.</b> , Director, Office for Human Research Protections, Office of Public Health and Science, The U.S. Department of Health and Human Services (HHS)  Chapter: 5, 6
Session 19	Unit 5: <b>Mock IRB</b> (120 minutes) <b>Jerry Menikoff, M.D., J.D.</b> , Director, Office for Human Research Protections, Office of Public Health and Science, The U.S. Department of Health and Human Services (HHS)  Chapter: 5, 6
Session 20	Unit 6: <b>Research with Vulnerable Participants</b>

	<p>(60 minutes)</p> <p><b>David Wendler, Ph.D.</b>, Head, Unit on Vulnerable Populations, Section on Human Subjects Research, Bioethics Department, NIH Clinical Center</p> <p>Chapter: 2, 5</p>
<b>Module III: Preparing and Implementing Clinical Studies</b>	
Session 21	<p>Unit 1:  <b>Developing Protocols and Manuals of Operating Procedures</b>  (90 minutes)  <b>Wendy Weber, N.D., Ph.D., M.P.H.</b>  Branch Chief, Clinical Research Branch, Division of Extramural Research,  National Center for Complementary and Integrative Health (NCCIH)</p> <p>Chapter: 29, 32</p>
Session 22	<p>Unit 2:  <b>Evaluation of a Protocol Budget</b>  (90 minutes)  <b>Phyllis Klein, R.N., C.C.R.C., B.S.N.</b>, Director, Regulatory Support and Compliance, Washington University in St. Louis</p> <p>Chapter: 33</p>
Session 23	<p>Unit 3:  <b>Scientific Conduct</b>  (60 minutes)  <b>James L. Gulley, M.D., Ph.D., F.A.C.P.</b>  Director, Clinical Trials Group, Center for Cancer Research, National Cancer Institute (NCI)</p> <p>Chapter: 4, 12</p>
Session 24	<p>Unit 4:  <b>Inclusion of Women and Minorities in Clinical Trials</b>  (60 minutes)  <b>Meredith D. Temple-O'Connor, Ph.D.</b>, Senior Scientific Advisor to the NIH Deputy Director for Extramural Research, Office of Extramural Research, Office of the Director, NIH</p> <p><b>Janine Austin Clayton, M.D.</b>, NIH Associate Director for Research on Women's Health and Director, NIH Office of Research on Women's Health</p> <p>Chapter: 13</p>
Session 25	<p>Unit 5:  <b>Pharmaceutical Development: Management of Projects</b></p>

	<p>(60 minutes)  <b>Christopher D. Breder, M.D., Ph.D.</b>, Clinical Team Leader, Anesthetic Products, Johns Hopkins University</p> <p>Chapter: 7, 26, 37, 43</p>
Session 26	<p>Unit 6:  <b>NIH Peer Review Process</b>  (90 minutes)  <b>Valerie Prenger, Ph.D., M.H.S.</b>, Director, Office of Scientific Review, National Heart, Lung, and Blood Institute (NHLBI)</p> <p>Chapter: 36</p>
Session 25	<p>Unit 7:  <b>FDA Product Regulation</b>  (60 minutes)  <b>Chris Joneckis, Ph.D.</b>, Immediate Office of the Center Director Associate Director for Review Management (Acting)  Center for Biologics Evaluation Research,  U.S. Food and Drug Administration (FDA)</p> <p>Chapter: 7</p>
Session 28	<p>Unit 8:  <b>Data Management &amp; Case Report Form Development in Clinical Trials</b>  (60 minutes)  <b>Marge Good, R.N., M.P.H., O.C.N.</b>, Nurse Consultant  Division of Cancer Prevention, Community Oncology Prevention Trials Research Group, National Cancer Institute (NCI)</p> <p>Chapter: 8, 33, 37</p>
Session 29	<p>Unit 9:  <b>Electronic Health Records and Clinical Data Interchange Standards</b>  (60 minutes)  <b>Stephen E. Wilson, Dr. PH.</b>, Director, Division of Biometrics III, Center for Drug Evaluation and Research (CDER), Office Of Biostatistics,  U.S. Food and Drug Administration (FDA)</p> <p>Chapter:34</p>
Session 30	<p>Unit 10:  <b>Quality Management in Clinical Research</b>  (60 minutes)  <b>Elizabeth Ness, R.N., M.S.N.</b>, Staff Development,  National Cancer Institute (NCI) Center for Cancer Research (CCR)</p> <p>Chapter:34, 35</p>
Session 31	<p>Unit 11:</p>

	<p><b>Clinical Trial Registration and Results Reporting</b> (90 minutes) <b>Deborah Zarin, M.D.</b>, Assistant Director for Clinical Research Projects, Lister Hill National Medical Center for Biomedical Communications, NIH</p> <p>Chapter: 15</p>
Session 32	<p>Unit 12: <b>Information Resources for Clinical Research</b> (90 minutes) <b>Josh Duberman, M.L.I.S.</b>, Informationist/Research Librarian, NIH Library</p> <p>Chapter: NA</p>
<b>Module IV: Additional Study Designs and Miscellaneous Topics</b>	
Session 33	<p>Unit 1: <b>Technology Transfer</b> (90 minutes) <b>Bruce Goldstein, J.D.</b>, Unit Coordinator, Technology Transfer Branch, National Cancer Institute (NCI)</p> <p>Chapter: 30, 31</p>
Session 34	<p>Unit 2: <b>Dissemination and Implementation Research</b> (90 minutes) <b>Catherine Stoney, Ph.D.</b>, Program Director Prevention and Population Sciences Program, National Heart, Lung, and Blood Institute (NHLBI)</p> <p>Chapter: NA</p>
Session 35	<p>Unit 3: <b>Health Disparities Research</b> (90 minutes) <b>Larissa Avilés-Santa, M.D., M.P.H., FACP, FACE</b> Division of Cardiovascular Sciences, National Heart, Lung, and Blood Institute (NHLBI)</p> <p>Chapter: 46</p>
Session 36	<p>Unit 4: <b>Health Disparities and Community-Based Participatory Research</b> (90 minutes) <b>Tiffany M. Powell-Wiley, M.D., M.P.H.</b> Assistant Clinical Investigator, Social Determinants of Obesity and Cardiovascular Risk, Cardiovascular and Pulmonary Branch, National Heart, Lung, and Blood Institute (NHLBI)</p> <p>Chapter: 46</p>

Session 37	Unit 5: <b>The Clinical Researcher and the Media</b> (60 minutes) <b>John Burklow, M.S.</b> , Associate Director for Communications Office of Communications and Public Liaison, NIH  Chapter: 16
	Final Exam Period