

MedStar Research Institute

Jason G. Umans, MD, PhD, FACP

Jason G. Umans, MD, PhD, FACP is Scientific Director of Penn Medical Lab (PML), the core laboratory of MedStar Research Institute. He is Associate Professor of Medicine and of Obstetrics and Gynecology at Georgetown University, where he also serves as Associate Director of the NIH-supported General Clinical Research Center and leads the DC Clinical Research Training Consortium.

Dr. Umans, an American Society of Hypertension (ASH) specialist in clinical hypertension, is board-certified in medicine, nephrology, and clinical pharmacology. He received his MD and PhD in Pharmacology from Cornell University, and completed clinical training in Medicine and Nephrology at the University of Chicago. Prior to joining MedStar, he held faculty appointments at Cornell, Chicago, and Georgetown. He is internationally recognized as an expert in medical disorders during pregnancy, particularly hypertension and kidney disease. His research in clinical pharmacology focuses on pharmacokinetic and pharmacodynamic studies in pregnant women. Along with colleagues at Washington Hospital Center and Georgetown, he leads the NIH-supported Washington Obstetric-Fetal Pharmacology Research Unit. Additional research interests include vascular mechanisms in hypertension, kidney, and cardiovascular disease.

He has published over 60 original papers on vascular biology, pharmacokinetic modeling, drug assay development, obstetric and fetal pharmacology, neuropharmacology, vascular and renal physiology, hemodynamic regulation, inflammatory mechanisms, and kidney disease. He has written book chapters and review articles, and has spoken widely on hypertension and renal disease in pregnancy, acute renal failure, and pharmacotherapy in pregnancy and in renal failure.

His laboratory, PML, develops and performs novel assays to support clinical research. Particular interests include multiplex assays of inflammatory cytokines, biomarkers, and transcription factors, immunoassay of vasoactive factors and markers of oxidative stress or cardiovascular risk. PML serves as the core laboratory for several NIH-supported studies, including the Strong Heart Study, the Genetics of Coronary Artery Disease in Alaska Natives, and the Stop Atherosclerosis in Native Diabetics Study. It also provides services to other clinical and basic research projects supported by federal agencies, foundations, and pharmaceutical sponsors.

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to bedside, MedStar
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