General Course Details

Course Title	Alcohol Pharmacokinetics: Distribution
Course Duration	1.5 hours
Initial Launch Date	7-31-24
Course Description	Participants will gain a deep understanding of how alcohol distributes throughout the body after absorption, focusing on the one-compartment model and the factors influencing total body water. Substantial focus is placed on defensibly estimating an individual's volume of distribution, a critical parameter in alcohol calculations. Attendees will learn about best practices, including relevant elements of the ANSI/ASB Best Practice Recommendation 122: Best Practice Recommendation for Performing Alcohol Calculations in Forensic Toxicology. Various estimation models are discussed, along with their accuracy across different BMI ranges and how to apply them in alcohol calculations with appropriate uncertainty levels. The course also addresses considerations for cases where only serum or plasma alcohol concentrations are available, and how to accurately estimate whole blood alcohol levels from these results. Upon completion of this course, participants will have a strong grasp of the principles governing alcohol distribution in the human body. This course is ideal for forensic toxicologists, law enforcement, legal professionals, and medical professionals dealing with alcohol-related cases.
Learning Objectives	• Develop a fundamental understanding of the physiological basis of alcohol distribution and its effect on blood alcohol concentration • Learn how to estimate the apparent volume of ethanol distribution from anthropometric factors in accordance with ASB recommendations • Learn how ethanol distribution into body fluids such as serum and plasms impact the apparent volume of distribution and their relationship to the blood alcohol level
Lessons	3

Quizzes	1
Format	Courses on DrugImpairment.com are offered in an asynchronous e-learning format. Each course consists of individual lessons and each lesson contains video-based instruction or a written learning assignment. Lessons are equipped with timers and activity monitoring for completion integrity. Certificates are granted upon completion of all lessons in a course and achieving satisfactory performance on any associated quizzes. Course learning hours are determined by run-time, with a minimum of 50 minutes required per credit hour.

Instructor Information

Instructor Name	Chris Tilson, F-ABFT
Instructor Biography	Chris Tilson studied biochemistry at the Georgia Institute of Technology in Atlanta, Georgia where he received a B.S. in chemistry in 1996. He has worked as a forensic toxicologist, toxicology section technical leader, and breath alcohol program manager throughout his more than 27 years of service with the Georgia Bureau of Investigation Division of Forensic Sciences. Since 2004 Mr. Tilson has served as manager of the GBI's Implied Consent section overseeing the state's breath alcohol testing program. He has co-authored papers in the Journal of Forensic Sciences and Journal of Analytical Toxicology and has made numerous presentations to the Southern Association of Forensic Sciences, Society of Forensic Toxicologists, International Association for Chemical Testing and CMI Intoxilyzer's Users Group.
ABFT Certified	Yes ☒ No ☐ Not Applicable ☐
POST Instructor	Yes ☐ No ☐ Not Applicable ☒
DRE	Yes ☐ No ☐ Not Applicable ☒
DRE Instructor	Yes ☐ No ☐ Not Applicable ☒