




2-day In-person Seminar:

## Laboratory, Medical and Device Performance and Validation following Regulatory and ICH Statistical Guidelines

-  Salt Lake City, UT
-  June 15th & 16th, 2017
-  8:30 AM to 4:30 PM

### Price

Price: **\$1,495.00**

*(Seminar for One Delegate)*

Register for 5 attendees

Price: **\$4,485.00** You Save: \$2,990.0 (40%)\*  
~~\$7,475.00~~

**ENROLL**

*\*\*Please note the registration will be closed 2 days (48 Hours) prior to the date of the seminar.*



### Al Bartolucci, Ph.D.

Dr. Al Bartolucci is Emeritus Professor of Biostatistics at the University of Alabama where he also serves as a Senior Scientist at the Center for Metabolic Bone Diseases, AIDS Research Center and Cancer Center.

He previously served as Chairman of the Department from 1984 through 1997. He has also taught Statistical Software courses involving Data Exploration, ANOVA/Regression and Design of Experiments. His teaching experience includes areas such as, Clinical Trials, Survival Analysis, Multivariate Analysis, Regression Techniques and Environmental/Industrial Hygiene Sampling and Analysis, Bayesian Statistics, and Longitudinal Data Analysis.

### Overview :

This course is designed to introduce to individuals the understanding and interpretation of the statistical concepts one uses when investigating quantitative ICH Guidelines such as analytical methods validation, procedures and acceptance criteria in calibration limits, and process and quality control. One also considers ICH Q8 and Q9. These techniques covers both clinical and laboratory applications. This applies to many areas such as stability testing, outlier analysis and risk management. It is not a course in statistics but introduces the participant to an applied approach to the statistical techniques one uses, how they are reasonably interpreted.



## Agenda:

### Day One

#### Lecture 1: Overview of ICH Methodology

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#### Lecture 2: Introduction to the simple regression model

- Interpreting the slope and intercept in validation procedures
  - Residual analysis and error detection
  - Stability and Potency issues
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#### Lecture 3: Outlier strategies using the linear model in calibration methods

- Imputation techniques for missing data
  - Outlier strategies for non normal or ranked data
  - Consequences of outlier elimination/substitution
  - Sample size and analysis issues
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#### Lecture 4: Confidence and tolerance bounds on risk models

- Parametric and non parametric (non normal data) procedures
  - Exact computational techniques
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#### Learning Objectives:

- Evaluate linear quantitative measurement procedures and sources of error.
- Distinguish the difference between confidence and tolerance intervals
- Evaluate the appropriateness of the effect of sample size in given procedures.
- Evaluate laboratory/clinical quality control based on risk management
- Interpret statistical process control
- Distinguish between FDA requirements and ICH guidelines

### Day Two

#### Lecture 1: Discussion of risk management in general

- Traditional risk management strategies in clinical settings
  - Predictive models in risk assessment
  - Discussion of the Design Space
  - Risk Management in pre-analytical phase of laboratory testing
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#### Lecture 2: Introduction to validation of models in hazard assessment and risk management

- Demonstration of laboratory Validation procedures
  - Bivariate models and confusion matrices and derived statistics
  - ROC plot
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#### Lecture 3: Statistical process laboratory control and capability

- Normal and non normal data procedures
  - Evolutionary Operations Process
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#### Lecture 4: Confidence and tolerance bounds on limits of risk

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#### Who Will Benefit:

- Quality Managers
- Quality Professionals
- Assay Development Scientists
- Research Scientists
- Data Analysts
- Laboratory Data Managers

### Group Participation

10%	2 Attendees to get offer
20%	3 to 6 Attendees to get offer
25%	7 to 10 Attendees to get offer
30%	10+ Attendees to get offer

### Payment Option

- 1 Credit Card: Use the Link to make Payment by Visa/Master/American Express card click on the register now link
- 2 Check: Kindly make the check payable to NetZealous DBA GlobalCompliancePanel and mailed to 161 Mission Falls Lane, Suite 216, Fremont, CA 94539, USA
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### What You will get

- 1 Learning Objectives
- 2 Participation certificates
- 3 Interactive sessions with the US expert
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### Contact Information: Event Coordinator

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Kindly get in touch with us for any help or information.

Look forward to meeting you at the seminar

**GlobalCompliancePanel**