

2-Day Virtual Seminar

## Biostatistics for the Non-Statistician

By: Elaine Eisenbeisz, Owner, Omega Statistics

**Dates:** February 19-20, 2026 (9:00 AM to 2:00 PM PT)

**Location:** Virtual Training Through WebEx



### SPEAKER



Elaine Eisenbeisz, Owner, Omega Statistics

Elaine Eisenbeisz is a private practice statistician and owner of Omega Statistics, a consulting firm she founded in 2006 to provide statistical design, analysis, and consulting services across a range of diverse fields. Over her career, Elaine has partnered with private researchers, biotech start-ups, and established companies such as Allergan, Nutrisystem, and Rio Tinto Minerals. She has also collaborated on peer-reviewed publications with academic and industry colleagues, bringing practical and methodological expertise to diverse projects.

Elaine earned her B.S. in Statistics from the University of California, Riverside, and a Master's Certification in Applied Statistics from Texas A&M University. She is a member of the American Statistical Association and the Mensa High IQ Society, and her company, Omega Statistics, maintains an A+ rating with the Better Business Bureau.

Her professional interests include Real-World Data and Evidence (RWD/RWE), genetics, proteomics, liquid biopsies, and fragmentomics. Beyond her consulting work, Elaine is passionate about education and regularly presents seminars, webinars, and workshops designed to make statistical concepts clear and accessible to non-statisticians. Known for her engaging teaching style and ability to translate complex ideas into practical applications, she has helped countless professionals gain confidence in applying statistics to their work.

## WHO WILL BENEFIT

- Physicians
- Clinical Research Associates
- Clinical Project Managers/Leaders
- Sponsors
- Regulatory Professionals who use statistical concepts/terminology in reporting
- Medical Writers who need to interpret statistical reports
- Clinical Investigators / Principal Investigators (PIs)
- Medical Affairs Professionals
- Safety and Pharmacovigilance Staff
- Data Managers and Data Analysts in clinical trials
- Healthcare Policy Analysts
- Pharmaceutical & Biotechnology Executives and Managers
- Graduate Students in the biological and medical sciences
- Anyone interested in learning core concepts and application of statistics

## WHY SHOULD YOU ATTEND

In the world of clinical research and biotechnology, numbers carry weight. A single statistical finding can influence whether a project moves forward, a regulatory submission is approved, or a study is deemed credible. Yet for many professionals, statistics can feel like a barrier rather than a tool. Questions often linger: Was the right test used? Is this “significant” result actually meaningful? Am I interpreting this report correctly?

These uncertainties can create hesitation and reduce confidence in decision-making. While statisticians may handle the technical details, non-statisticians are frequently expected to review reports, contribute to study design discussions, and communicate findings to colleagues, regulators, or clients. Without a clear understanding of statistical concepts, it can be easy to misinterpret results or miss important nuances.

This seminar is designed to help bridge that gap. In two focused days, you’ll be introduced to the key ideas and methods that appear most often in clinical and biotech research. The emphasis is on interpretation and application, not heavy mathematics. You’ll see how statistical results fit into the bigger picture of study design, regulatory requirements, and scientific communication.

By attending, you will:

- Develop a clearer understanding of common statistical terms and concepts.
- Gain practical insight into how and why certain tests are applied.
- Learn approaches for distinguishing between statistically significant and clinically meaningful results.
- Improve your ability to follow discussions with statisticians and regulatory professionals.
- Increase your confidence when reviewing, reporting, or presenting statistical information.

This seminar is not about turning you into a statistician. Rather, it is about equipping you with enough knowledge to understand the essentials, ask informed questions, and engage more effectively in the decision-making process. For professionals who work with clinical data but don’t have formal statistical training, this program provides a practical and supportive way to reduce uncertainty and build confidence.

## AGENDA

### Day 1 (9:00 AM - 2:00 PM PT)

#### Session 1 (60 Mins): Why Statistics?

- Do we really need statistical tests?
- Sample vs. Population
- I'm a statistician not a magician! What statistics can and can't do
- Descriptive statistics and measures of variability

#### Session 2 (60 Mins): The many ways of interpretation

- Confidence intervals
- p-values
- effect sizes
- Clinical vs. meaningful significance

#### Session 3 (90 Mins): Common Statistical Tests

- Comparative tests
- Correlation & Regression analysis

#### Session 4 (60 Mins): Bayesian Logic

- A different way of thinking
- Bayesian methods and statistical significance
- Bayesian applications to diagnostics testing
- Bayesian applications to genetics

### Day 2 (9:00 AM - 2:00 PM PT)

#### Session 1 (60 Mins): Systematic Reviews

- Why perform systematic reviews and meta-analysis?
- A bit of history, reasoning, and terminology
- Steps in performing a systematic review

#### Session 2 (60 Mins): Study power and sample size

- Review of p-value, significance level, effect size
- Formulas, software, and other resources for computing a sample size

#### Session 3 (60 Mins): Developing a Statistical Analysis Plan

- Using FDA guidance as a foundation, learn the steps and criteria needed to develop a statistical analysis plan (SAP).
- An SAP template will be given to all attendees.

#### Session 4 (90 Mins): Specialized topics/Closing Comments/Q&A

- Survival Curves and Cox regression
- Tests of Equivalence and Non-inferiority
- Question and Answer session

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Topic Name : **Biostatistics for the Non-Statistician**

Date & Time : February 19-20, 2026 (9:00 AM to 2:00 PM PT)

Name

Title

Email

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| Attendee 3 |  |  |
| Attendee 4 |  |  |

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