

Statistics for the Hemostasis Laboratory

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A New Continuing Education CD from ASCLS

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This CD is designed to educate the user in the language of statistics that one may encounter in the Hemostasis laboratory. There are two units presented with synchronized slides and audio to guide the learner. The first unit assists in reviewing descriptive statistics, such as mean, standard deviation, histograms, and reference intervals. Examples and practice problems are used to illustrate the usefulness of these statistics.

The second unit delves into more advanced statistics and concepts, including coefficient of variation, student's t-test, Analysis of Variance (ANOVA), regression analysis, correlation coefficient and more. Examples and practice problems are used to illustrate important concepts. This presentation will also discuss what is truly statistically significant vs. clinically significant -- in other words, what do these numbers really mean?

The instructional CD includes a quiz that will provide 3 contact hours of P.A.C.E.®-approved credit upon successful completion.

Where is the middle?

The three 'middles'

- Mean: average
- Median: 50% below - 50% above
- Mode: most frequent value

Topics include –

- Descriptive statistics
- Precision & Accuracy
- Regression analysis
- Correlation coefficient
- Statistical vs. clinical significance...and more

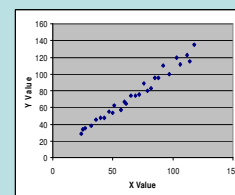
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STATISTICAL DEFINITIONS

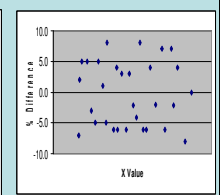
- **ACCURACY:** The ability of an assay to obtain the **correct measure**, on average. If a measure is **not accurate it is biased**.
- **BIAS:** The difference between the true value and the measured value.
- **PRECISION:** Sometimes known as **reproducibility or reliability**, is the ability of a measurement to give the same result or similar results with repeated measurements.

PowerPoint slides with synchronized audio guide you through each unit.

Ex. 3: Scatter and % difference Plots



Scatter Plot



Difference Plot

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