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Technical reports Obaveštenja

PROGRAM NAUČNIH I STRUČNIH SKUPOVA I EDUKATIVNIH SEMINARA U 2009. GODINI

• 16–19. septembar 2009, Ohrid, Makedonija

XVII Meeting of Balkan Clinical Laboratory Federation & 5th Macedonian Congress of Clinical Chemistry www.bclf2009.org

• 8–10. oktobar 2009, Beograd

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Mesto održavanja: Hotel »M«, Beograd Vrsta skupa: međunarodni simpozijum, učešće uz kotizaciju, registrovani učesnici dobijaju sertifikat

• 15–17. oktobar 2009, Beograd

34. Međunarodni sajam medicine – Beogradski sajam

Tema: Novine u laboratorijskoj dijagnostici Vrsta skupa: stručni skup, učešće bez kotizacije • 5. novembar 2009, Beograd

Dvanaesti edukativni seminar Standardizacija parametara prema preporukama IFCC

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The results of significance tests such as Student's and chi-squared should be presented with descriptive statistics, degrees of freedom (if appropriate) and probability P. The validity of any assumptions should be checked (e.g. conventional *t*-tests assume a normal distribution and equal variance for each set of data). For 2×2 contingency table analysis by the chi-squared test the continuity correction must be applied, and for small expected frequencies Fisher's Exact Test used.

P values should be reported in full in 1 or 2 significant figures. Describing *P* values as > 0.05 or NS (not significant) should be avoided. If the results are highly significant and the calculated *P* value from the computer is e.g. 0.000, then the use of P < 0.0005 is acceptable. Confidence intervals should be stated, particularly for non-significant results.

The conventional use of statistical significance is $P \le 0.005$. If a different significance level needs to be used, then the reasons for this must be clearly stated in the statistical method section.

Discussion

Statistical significance should not be equated to importance and P values should not be compared between different statistical tests. Association should not be interpreted as causation without additional evidence.

Problem Areas

Multiple comparisons can produce spurious and misleading significance values. The primary hypothesis should always be clearly stated, and associations detected by retrospective analysis should be interpreted with caution. Whenever possible a single overall statistical test should be applied first e.g. ANOVA. If this is not significant, then multiple comparisons must not be applied. If it is significant then some form of multiple range test can be applied. If a single overall test is not possible, then multiple comparisons must use a Bonferroni type significance level.

With paired data the differences between individual pairs of data and the variability of the differences are more important than the individual values. Graphical representation should also show the difference between individual pairs, e.g. by plotted lines joining the paired data points.

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If you are carrying out complicated statistical analyses, e.g. multivariate analysis, ROC analysis etc., then it is recommended that you seek advice from a statistician.

References

- Bossuyt PM, Reitsma JB, Bruns DE, et al., for the STARD Group. Towards complete and accurate reporting of studies of diagnostic accuracy: the STARD initiative. Ann Clin Biochem 2003; 40: 357–63.
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