

## Comparison of 'Power For Comparing Two Means' to other public software programs and statistical textbook.

Date last tested: 7/11/05.

	CI %,	Mean difference (Group1 – Group2), n <sub>1</sub> , s <sub>1</sub> , n <sub>2</sub> , s <sub>2</sub> ,			
Data input	95%, 5, 100, 15.34, 100, 18.23	95%, -0.24, 50, 0.64, 50, 0.76	95%, 5, 100, 18.23, 100, 15.34	95%, 5, 30, 18.23, 30, 15.34	95%, -4, 30, 18.23, 30, 15.34
OpenEpi	55.52%	40.06%	55.52%	20.89%	14.89%
Rosner	55.5%	40.1%	NA	NA	NA
PEPI	55.1%	?	55.1%	20.35%	?
UCLA Department Of Statistics	55.1%	39.4%	55.1%	20.3%	14.5%

'CI' Confidence interval; ' $n_1$ ' sample size of Group 1; ' $s_1$ ' standard deviation of Group 1 mean; ' $n_2$ ' sample size of Group 2; ' $s_2$ ' standard deviation of Group 2 mean;

? Wrong result due to negative mean difference

Reference:

- Bernard Rosner. Fundamentals of Biostatistics (5th edition).
- PEPI: Abramson JH and Gahlinger PM (2001). Computer program for epidemiologists: PEPI version 4.0. Sagebrush Press, Salt Lake City. Used POWR.EXE version 4.0.
- UCLA Department Of Statistics. (<http://calculators.stat.ucla.edu/powercalc/normal/n-2-unequal/n-2-uneq-var-power.php>)