

# OpenEpi, Version of December, 2003

## Test Results for SSCC Module

### Sample Size for Unmatched Case Control Study

Dataset #	Confidence, Power (%)	Ratio, Controls with exposure, Cases with exp.	Compared with	Result
S-2	95,90	2, 30%, RR>=4	Schlesselman, JJ, Case-Control Studies, Oxford Univ. Press, 1982	Agreement (34 and 68)
S-6a	95,80	1,40%,60%	Pezzullo JavaStat website. Proportion Difference Power/Sample Size Calculation <a href="http://members.aol.com/johnp71/proppowr.html">http://members.aol.com/johnp71/proppowr.html</a>	Agreement (107 vs 108 due to rounding up in OpenEpi)
S-6b	95,80	1, 40%,60%	Epi Info Statcalc	Agreement (107 vs 108 due to rounding up in OpenEpi)
S-3a	95,80	4, 5%,10%	Pezzullo JavaStat website. Proportion Difference Power/Sample Size Calculation <a href="http://members.aol.com/johnp71/proppowr.html">http://members.aol.com/johnp71/proppowr.html</a>	273 vs 274 and 1094 vs 1097 Pezzullo requires entering 0.25 for ratio rather than 4, and the difference appears to be in which group is calculated first and then

				adjusted by the ratio to find the number for the other group.
S-3b	same	same	Epi Info Statcalc	273 vs. 274, 1097 vs 1092

Testing by Andy Dean. .

Conclusions: OpenEpi sample size programs round results UP rather than to the nearest integer, since it is difficult to find 0.1 person to participate in a study. Agreement takes this into account. Differences in S-3 should be investigated, but are not serious for practical work.

These results are sufficient to remove the BETA labels from the programs, although further testing and comparison of important results with those from other programs is always in order. Please send us results of further testing so that we can add them to this list.