## Correction

## Correction: A simple method for analyzing data from a randomized trial with a missing binary outcome

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Published: 07 January 2004

BMC Medical Research Methodology 2004, 4:1

Received: 02 January 2004 Accepted: 07 January 2004

This article is available from: http://www.biomedcentral.com/1471-2288/4/1

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In this article [1], equation (8) is incorrect because it omitted the covariance terms. Let h denote the number of strata, so s = 1,2,...,h. Let T denote transpose,  $\bullet$  denote matrix product, and *Diagonal Matrix* [vector] denote a matrix of all 0's except for vector on the diagonal. The correct formula is

$$\widehat{var}(\widehat{\Delta}) = \sum_{s=1}^{h} \left(\frac{\partial \widehat{\Delta}}{\partial d_{s}}\right)^{2} \widehat{var}(d_{s}) + \left(\frac{\partial \widehat{\Delta}}{\partial \underline{w}}\right) \cdot \widehat{var}(\underline{w}) \cdot \left(\frac{\partial \widehat{\Delta}}{\partial \underline{w}}\right)^{T} \\
= \sum_{s=1}^{h} w_{s}^{2} \sum_{z} q_{sz} (1 - q_{sz}) / n_{zs} + \sum_{s=1}^{h-1} (d_{s} - d_{h})^{2} w_{s} / N_{++} \\
- \sum_{i=1}^{h-1} \sum_{j=1}^{h-1} (d_{i} - d_{h}) (d_{j} - d_{h}) w_{i} w_{j} / N_{++}, \tag{8}$$

where

$$\begin{split} & \underline{w} = (w_1, w_2, ..., w_{h-1}0, \\ & \frac{\partial \Delta}{\partial \underline{w}} = (d_1 - d_h, d_2 - d_h, ..., d_{h-1} - d_h), \\ & \widehat{var}(\underline{w}) = (Diagonal Matrix[\underline{w}] - \underline{w}^T \cdot \underline{w})/N_{++}. \end{split}$$

In our example, the effect of the correction was negligible; the corrected estimated standard error was the same to two significant digits as the incorrect value.

Also for clarification, we note that in the sentence after (11), it is an assumption that, within stratum s, the difference,  $\Delta_{s'}$  does not depend on the unobserved covariate x.

## References

 Baker SG, Freedman LS: A simple method for analyzing data from a randomized trial with a missing binary outcome. BMC Medical Research Methodology 2003, 3:8.

## **Pre-publication history**

The pre-publication history for this paper can be accessed

http://www.biomedcentral.com/1471-2288/4/1/prepub

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