APPENDIX TABLE 1. Comparison between Decomposition of Change method and Westoff method in evaluating relationship
between contraceptive use and abortion

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Characteristic	Decomposition of Change	Westoff
<b>Data requirements</b> Pregnancy history/contraceptive use	Yes; any length of time is acceptable, but five years is preferable	Yes; one year
Month-by-month marital status/marital history	Yes	No (but can use data if available)
Current risk of unintended pregnancy	No	Yes
<b>Data that can improve methodology</b> Pregnancy intendedness at time of conception	Yes	Yes
<b>Analysis</b> No. of subgroups analyzed	3	5
Decomposition of abortion rate	$ \sum_{i=1}^{3} \frac{\text{woman-month}_{-i}}{\text{all woman-months}} * \frac{a\_i}{\text{woman-month}_{-i}} $	$\sum_{i=1}^{5} \underline{a}_{-i}$ all woman-months
Statistical power	More (larger sample size)	Less (uses shorter study intervals because of need for data on current unintended pregnancy risk)
Disaggregation by population characteristics	Yes	No
Applicability to public health analyses Quantifies proportion of abortion decline contributed by increased contraceptive use	Yes	No
Results can be used to estimate changes in abortion rate under different scenarios	Yes	Yes; allows for more detailed as assumptions about nonusers than decomposition method does
Limitations Abortion undergoperting and misclassification	Voc	Voc
Abortion underreporting and misclassification	Yes	Yes
Recall bias	Yes	Yes
Assumptions about women's present status	No	Yes

Volume 36, Number 2, June 2010