## Document S2. Sensitivity analysis of asymmetrical confidence intervals

We conducted a three-part sensitivity analysis, in each part of which one of the three values would be replaced by a value imputed from the other two, assuming interval symmetry. With $\ln R R$ as the natural $\log$ of the point estimate, $\operatorname{lnLO}$ as the natural $\log$ of the lower limit and $\ln \mathrm{UP}$ as the natural $\log$ of the upper limit:
a. imputed $\ln R R=0.5(\ln U P+\ln L O)$
b. imputed $\ln L O=\ln R R-(\ln U P-\ln R R)=2(\ln R R)-\ln U P$
c. imputed $\ln U P=\ln R R+(\ln R R-\ln L O)=2(\ln R R)-\ln L O$

We then re-ran the analysis with each calculated estimate and 95\% CI to examine if and how the summarized random effects estimate and $95 \%$ CI change, for the appropriate time period.

Mutevedzi 2011a-3-month estimate

| Iteration | Calculated <br> estimate <br> $\mathbf{( 9 5 \%} \mathbf{C I})$ | Resulting summary <br> effect estimate <br> $\mathbf{( 9 5 \%} \mathbf{C I})$ |
| :--- | :---: | :---: |
| Asymmetrical interval: | $1.59(0.84,1.97)$ | $1.10(0.87,1.40)$ |
| a. imputed $\ln R R=0.5[\ln (1.97)+\ln (0.84)]=0.25$ | $1.29(0.84,1.97)$ | $1.07(0.87,1.32)$ |
| b. imputed $\ln \mathrm{LO}=2 \ln (1.59)-\ln (1.97)=0.25$ | $1.59(1.28,1.97)$ | $1.13(0.87,1.47)$ |
| c. imputed $\ln \mathrm{UP}=2 \ln (1.59)-\ln (0.84)=1.10$ | $1.59(0.84,3.01)$ | $1.07(0.85,1.36)$ |

Boulle 2008b - 6-month estimate

| Iteration | Calculated <br> estimate <br> $\mathbf{( 9 5 \%} \mathbf{C I})$ | Resulting summary <br> effect estimate <br> $\mathbf{( 9 5 \%} \mathbf{C I})$ |
| :--- | :---: | :---: |
| Asymmetrical interval: | $0.8(0.5,1.1)$ | $1.15(0.94,1.41)$ |
| a. imputed $\ln R R=0.5[\ln (1.1)+\ln (0.5)]=-0.30$ | $0.7(0.5,1.1)$ | $1.14(0.92,1.42)$ |
| b. imputed $\ln \mathrm{OO}=2 \ln (0.8)-\ln (1.1)=-0.54$ | $0.8(0.6,1.1)$ | $1.14(0.93,1.40)$ |
| c. imputed $\ln U P=2 \ln (0.8)-\ln (0.5)=0.25$ | $0.8(0.5,1.3)$ | $1.16(0.94,1.42)$ |

Though asymmetry is possibly due to rounding, not error.
Nguyen 2011-60-month estimate

| Iteration | Calculated <br> estimate <br> $\mathbf{( 9 5 \%} \mathbf{C I})$ | Resulting summary <br> effect estimate <br> $(\mathbf{9 5 \%} \mathbf{C I})$ |
| :--- | :---: | :---: |
| Asymmetrical interval: | $2.9(1.6,10.5)$ | $1.33(1.02,1.75)$ |
| a. imputed $\ln R \mathrm{R}=0.5[\ln (10.5)+\ln (1.6)]=1.41$ | $4.1(1.6,10.5)$ | $1.37(1.05,1.79)$ |
| b. imputed $\ln \mathrm{LO}=2 \ln (2.9)-\ln (10.5)=-0.22$ | $2.9(0.8,10.5)$ | $1.33(1.02,1.72)$ |
| c. imputed $\ln \mathrm{UP}=2 \ln (2.9)-\ln (1.6)=1.66$ | $2.9(1.6,5.3)$ | $1.38(1.06,1.80)$ |

