Online appendix E

Calculations of Cohen's d

	Intermediary measure	Intermediary variance	Cohen's d	Variance of Cohen's d	Source/Explanations
Regression Coefficient, Difference-in-Difference Coefficient	$t = \dfrac{beta}{se(beta)}$		$= t * \sqrt{\dfrac{1}{n_{treatment}} + \dfrac{1}{n_{control}}}$	$= \dfrac{n_{regression}}{(n_{treatment} * n_{control})} + \dfrac{Cohen's\ d^2}{n_{regression}}$	Approximating Cohen's d via t-statistic transformation as seen in Waddington et al. (2019)
Two by two table Treatment vs Control group, behavior (change) observed yes vs no <table><tr><td>TY</td><td>CY</td></tr><tr><td>TN</td><td>CN</td></tr></table>	$Odds\ Ratio$ $= \dfrac{\frac{TY}{TN}}{\frac{CY}{CN}}$	$Variance(Odds\ Ratio)$ $= \dfrac{1}{TY} + \dfrac{1}{TN} + \dfrac{1}{CY} + \dfrac{1}{CN}$	$= \ln(Odds\ Ratio) * \dfrac{\sqrt{3}}{\pi}$	$= \ln(Variance\ of\ Odds\ Ratio) * \dfrac{\sqrt{3}}{\pi}$	Borenstein et al. (2009)

Measured that are based on two by two tables are: Odds Ratios, Risk Ratios / Relative Risk, Risk Difference, Proportion or Number of participants exhibiting change in behavior in treatment and control groups

References:

Borenstein, M., Hedges, L. V., Higgins, J. P. T., & Rothstein, H. (2009). *Introduction to meta-analysis*. Chichester, U.K: John Wiley & Sons.

Waddington, H., Sonnenfeld, A., Finetti, J., Gaarder, M., John, D., & Stevenson, J. (2019). Citizen engagement in public services in low-and middle-income countries: A mixed-methods systematic review of participation, inclusion, transparency and accountability (PITA) initiatives. *Campbell Systematic Reviews*, *15*(1-2), e1025.