Supplementary material to article by W-L. Chang et al. "Economic evaluation of a bio-psycho-social intervention for comorbid disorders in a traumatized population in post-war Kosovo"

Appendix S2

The calculations of mean difference in effectiveness or QALY change before and after treatment are presented below:

If $\gamma_{_{1i}}$ denoted the change in effectiveness or QALYs in the intervention group before and after treatment for the participant i for 1, 2, ..., $n_{_1}$, $\gamma_{_{0j}}$ denoted the change in effectiveness or QALYs in the waiting-list group before and after treatment for the participant j for 1, 2, ..., n_2 , E_1 and E_0 denoted effectiveness or QALYs of the intervention group and the waiting-list group, respectively, at month 0, 3, 6 and 9:

$$y_{11} = \frac{E_{11}(\text{month 3}) + E_{11}(\text{month 6})}{2} - E_{11}(\text{month 0})$$
 (1)

$$y_{0j} = \frac{E_{0j}(\text{month 6}) + E_{0j}(\text{month 9})}{2} - \frac{E_{0j}(\text{month 0}) + E_{0j}(\text{month 3})}{2}$$
(2)

The mean difference in effectiveness or QALY change of these 2 groups, denoted \tilde{y} can be calculated using equations (1) and (2):

$$\tilde{\gamma} = \frac{\sum_{i=1}^{n_1} \gamma_{ji} + \sum_{j=1}^{n_2} \gamma_{0j}}{(n_1 + n_2)}$$
(3)