Additional file 2

Formulas for calculating time*group interaction effect sizes

$$d = \sqrt{F \left(\frac{n_{IG} + n_{CG}}{n_{IG} * n_{CG}} \right) * \left(\frac{n_{IG} + n_{CG}}{n_{IG} + n_{CG} - 2} \right)}$$

$$d = t \sqrt{\left(\frac{n_{IG} + n_{CG}}{n_{IG} * n_{CG}} \right) * \left(\frac{n_{IG} + n_{CG}}{n_{IG} + n_{CG} - 2} \right)}$$

$$d = \frac{mean_{DIFF\ IG} - mean_{DIFF\ CG}}{\sqrt{\dfrac{(n_{IG} - 1) * SD^2_{DIFF\ IG} + (n_{CG} - 1) * SD^2_{DIFF\ CG}}{n_{IG} + n_{CG}}}}$$

with d=Cohen's d effect size, F=F statistic, mean$_{DIFF\ CG}$=baseline-post mean difference in control group, mean$_{DIFF\ IG}$=baseline-post mean difference in intervention group, n$_{CG}$=number of subjects in control group, n$_{IG}$= number of subjects in intervention group, SD$^2_{DIFF\ CG}$=standard deviation of baseline-post difference in control group, SD$^2_{DIFF\ IG}$= standard deviation of baseline-post difference in intervention group, t=t statistic [34].

References

34. Thalheimer W, Cook S. How to calculate effect sizes from published research: A simplified methodology. 2002.