Table 1S. Intention to treat analysis. Development of depression, anxiety, hopelessness, general health, and grief included all relatives that complete the treatment. Mixed model results.

|  |  |  |  |
| --- | --- | --- | --- |
| **MIXED MODELS RESULTS** | **Type III Tests of Fixed Effects** | **Models estimated means** | **Difference from baseline** |
| **Time** | **PSDEEI****N=81** | **CBGT****N=106** | **PSDEEI** | **CBGT** |
| **Outcome** | **Effect** | **Num df** | **Den df** | **F** | **Sig.** | Mean | SE | Mean | SE | Diff | CI95% | Diff | CI95% |
| **BDI** | **Measure** | 3.0 | 179.6 | 133.10 | <0.001 | **Pre** | 18.6 | .9 | 18.6 | .7 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 179.6 | 17.19 | <0.001 | **Post** | 16.6 | .8 | 10.6 | .7 | 2.0\* | .2 | 3.7 | 8.0\* | 6.5 | 9.5 |
|   |   |   |  |  | **6 m** | 12.8 | .7 | 8.3 | .6 | 5.8\* | 3.9 | 7.7 | 10.3\* | 8.7 | 11.9 |
|   |   |   |  |  | **12 m** | 10.4 | .7 | 6.6 | .6 | 8.1\* | 6.1 | 10.2 | 12.0\* | 10.3 | 13.8 |
| **BAI** | **Measure** | 3.0 | 174.6 | 96.48 | <0.001 | **Pre** | 18.6 | 1.1 | 18.9 | 1.0 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 174.6 | 12.82 | <0.001 | **Post** | 15.7 | .9 | 10.9 | .8 | 2.9\* | 1.2 | 4.6 | 8.0\* | 6.5 | 9.4 |
|   |   |   |  |  | **6 m** | 13.3 | .9 | 8.4 | .7 | 5.3\* | 2.8 | 7.7 | 10.5\* | 8.4 | 12.6 |
|   |   |   |  |  | **12 m** | 10.7 | .7 | 5.3 | .6 | 7.9\* | 5.2 | 10.5 | 13.7\* | 11.4 | 15.9 |
| **BHS** | **Measure** | 3.0 | 186.0 | 73.29 | <0.001 | **Pre** | 9.8 | .5 | 9.8 | .5 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 186.0 | 17.12 | <0.001 | **Post** | 9.2 | .5 | 5.9 | .4 | .5 | -.4 | 1.5 | 3.8\* | 3.0 | 4.7 |
|   |   |   |  |  | **6 m** | 7.7 | .4 | 4.1 | .4 | 2.0\* | .8 | 3.2 | 5.6\* | 4.6 | 6.7 |
|   |   |   |  |  | **12 m** | 6.7 | .4 | 3.2 | .4 | 3.1\* | 1.7 | 4.4 | 6.6\* | 5.4 | 7.7 |
| **CV** | **Measure** | 3.0 | 183.5 | 210.86 | <0.001 | **Pre** | 13.5 | .7 | 16.0 | .6 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 183.5 | 44.00 | <0.001 | **Post** | 12.5 | .6 | 8.6 | .5 | 1.0 | -.1 | 2.1 | 7.5\* | 6.5 | 8.4 |
|   |   |   |  |  | **6 m** | 8.8 | .6 | 4.6 | .5 | 4.7\* | 3.1 | 6.3 | 11.5\* | 10.1 | 12.8 |
|   |   |   |  |  | **12 m** | 6.7 | .5 | 2.6 | .4 | 6.8\* | 5.1 | 8.4 | 13.5\* | 12.1 | 14.9 |
| **PRIG** | **Measure** | 3.0 | 181.8 | 179.46 | <0.001 | **Pre** | 41.0 | 1.2 | 42.1 | 1.0 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 181.8 | 38.63 | <0.001 | **Post** | 37.9 | 1.2 | 27.5 | 1.1 | 3.1\* | .4 | 5.9 | 14.5\* | 12.1 | 16.9 |
|   |   |   |  |  | **6 m** | 28.8 | 1.0 | 19.8 | .8 | 12.2\* | 9.1 | 15.4 | 22.3\* | 19.6 | 24.9 |
|   |   |   |   |   | **12 m** | 30.0 | 1.2 | 15.9 | 1.0 | 11.1\* | 7.6 | 14.6 | 26.1\* | 23.2 | 29.0 |

Num and den df: numerator and denominator degree freedom; F: test F value; SE: standard error; Diff: difference; CI95%: confidence interval 95%

BDI-II: Beck Depression Inventory, BAI: Beck Anxiety Inventory; BHS: Beck Hopelessness Scale; GHQ28: General Health Questionnaire-28 items; ICG: Inventory of Complicated Grief. CBGT: Cognitive-Behavioral Grief Therapy; PSDEEI: Psychoeducational and Expressive Emotional Intervention.

\*p<0.05

Table 2S. Intention to treat analysis. Development of depression, anxiety, hopelessness, general health, and grief included all relatives randomized. Mixed model results.

|  |  |  |  |
| --- | --- | --- | --- |
| **MIXED MODELS RESULTS** | **Type III Tests of Fixed Effects** | **Models estimated means** | **Difference from baseline** |
| **Time** | **PSDEEI N=116** | **CBGT****N=133** | **PSDEEI** | **CBGT** |
| **Outcome** | **Effect** | **Num df** | **Den df** | **F** | **Sig.** | Mean | SE | Mean | SE | Diff | CI95% | Diff | CI95% |
| **BDI** | **Measure** | 3.0 | 186.4 | 142.32 | <0.001 | **Pre** | 18.0 | .8 | 19.1 | .7 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 186.4 | 20.01 | <0.001 | **Post** | 16.2 | .8 | 10.9 | .7 | 1.7\* | .0 | 3.4 | 8.2\* | 6.7 | 9.7 |
|   |   |   |   |   | **6 m** | 12.5 | .7 | 8.6 | .6 | 5.5\* | 3.6 | 7.4 | 10.5\* | 9.0 | 12.1 |
|   |   |   |   |   | **12 m** | 10.2 | .7 | 6.8 | .6 | 7.8\* | 5.8 | 9.8 | 12.3\* | 10.7 | 14.0 |
| **BAI** | **Measure** | 3.0 | 180.8 | 111.91 | <0.001 | **Pre** | 19.0 | 1.1 | 19.8 | .9 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 180.8 | 14.23 | <0.001 | **Post** | 16.0 | .9 | 11.5 | .7 | 3.1\* | 1.4 | 4.7 | 8.3\* | 6.9 | 9.7 |
|   |   |   |   |   | **6 m** | 13.5 | .8 | 8.8 | .7 | 5.5\* | 3.1 | 7.8 | 11.0\* | 9.0 | 13.0 |
|   |   |   |   |   | **12 m** | 10.8 | .7 | 5.5 | .6 | 8.2\* | 5.6 | 10.7 | 14.2\* | 12.1 | 16.4 |
| **BHS** | **Measure** | 3.0 | 193.5 | 82.56 | <0.001 | **Pre** | 9.7 | .5 | 10.1 | .4 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 193.5 | 19.69 | <0.001 | **Post** | 9.2 | .5 | 6.2 | .4 | .5 | -.4 | 1.5 | 3.9\* | 3.1 | 4.8 |
|   |   |   |   |   | **6 m** | 7.7 | .4 | 4.3 | .4 | 2.0\* | .8 | 3.2 | 5.8\* | 4.8 | 6.8 |
|   |   |   |   |   | **12 m** | 6.7 | .4 | 3.4 | .4 | 3.1\* | 1.8 | 4.4 | 6.8\* | 5.7 | 7.9 |
| **CV** | **Measure** | 3.0 | 192.1 | 236.38 | <0.001 | **Pre** | 13.8 | .6 | 16.2 | .5 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 192.1 | 45.16 | <0.001 | **Post** | 12.7 | .6 | 8.7 | .5 | 1.1 | .0 | 2.2 | 7.5\* | 6.5 | 8.5 |
|   |   |   |   |   | **6 m** | 8.9 | .6 | 4.7 | .5 | 4.9\* | 3.3 | 6.4 | 11.5\* | 10.2 | 12.8 |
|   |   |   |   |   | **12 m** | 6.8 | .5 | 2.6 | .4 | 7.0 | 5.4 | 8.6 | 13.6\* | 12.3 | 14.9 |
| **PRIG** | **Measure** | 3.0 | 186.6 | 179.63 | <0.001 | **Pre** | 40.3 | 1.1 | 41.6 | 1.0 |   |   |   |   |   |   |
| **Treatment\*Measure** | 3.0 | 186.6 | 40.03 | <0.001 | **Post** | 37.4 | 1.2 | 27.3 | 1.0 | 2.9\* | .2 | 5.6 | 14.4\* | 12.0 | 16.7 |
|   |   |   |   |   | **6 m** | 28.6 | 1.0 | 19.7 | .8 | 11.7\* | 8.6 | 14.8 | 22.0\* | 19.4 | 24.6 |
|   |   |   |   |   | **12 m** | 29.7 | 1.2 | 15.8 | .9 | 10.6\* | 7.2 | 14.1 | 25.9\* | 23.1 | 28.7 |

Num and den df: numerator and denominator degree freedom; F: test F value; SE: standard error; Diff: difference; CI95%: confidence interval 95%

BDI-II: Beck Depression Inventory, BAI: Beck Anxiety Inventory; BHS: Beck Hopelessness Scale; GHQ28: General Health Questionnaire-28 items; ICG: Inventory of Complicated Grief. CBGT: Cognitive-Behavioral Grief Therapy; PSDEEI: Psychoeducational and Expressive Emotional Intervention.

\*p<0.05