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| **Table S2: Changes of secondary outcome for subgroups** |
| **Variable** | **NEG group** | **POS group** | **Statistics:** |
| **n**  | 106 | 104 |  |
| **Anxiety [GAD-7]**MeanPost *(SD)[95% CI]*∆Mean between t0 and *t1 (SD)*MedianPost *[IQR]*MCID improved *(%)*MCID did not change *(%)*MCID worsened *(%)* | 5.5 (4.0) [4.8-6.3]-1.4 (3.6)5 [3-8.8]26677 | 7.7 (4.5) [6.9-8.6]-1.0 (3.9)7[5-10]266410 | F(1)=0.527, *p*=.469, ƞp2=.003 |
| **Depression [PHQ-9]**MeanPost *(SD)[95% CI]*∆Mean between t0 and *t1 (SD)*MedianPost *[IQR]*MCID improved *(%)*MCID did not change *(%)*MCID worsened *(%)* | 6.2 (4.2) [5.4-7.0]-1.4 (3.7)6 [3-8.8]32626 | 9.5 (5.8) [8.4-10.6]-1.6 (4.7)9 [5-13]26677 | F(1, 207)=3.237, *p*=.073; ƞp2 =0.015 |
| **Quality of Life [SF-12]****a) Mental Sum score**MeanPost *(SD)[95% CI]*∆Mean between t0 and *t1 (SD)*MedianPost *[IQR]*MCID improved *(%)*MCID did not change *(%)*MCID worsened *(%)***b) Physical Sum score**MeanPost *(SD)[95% CI]*∆Mean between t0 and *t1 (SD)*MedianPost *[IQR]*MCID improved *(%)*MCID did not change *(%)*MCID worsened *(%)* | 48.7 (10.3) [46.7-50.6]+2.9 (10.8)51.7 [43.6-56.1]47272642.7 (10.0) [40.8-44.6]+3.7 (6.8)44.1 [35.9-50.8]503614 | 42.3 (11.5) [40.1-44.5]+3.3 (10.2)44.1 [32.5-52.5]49262531.6 (11.1) [29.5-33.8]+ 0.3 (7.5)41.7 [24.0-39.4]323731 | F(1, 207)=4.182, *p*=.042, ƞp2=.020F(1, 207)=26.255, *p*<.001, ƞp2=.113 |
| **Eating Behaviour [TFEQ]****a)Cognitive Restraint**MeanPost *(SD)[95% CI]*∆Mean between t0 and *t1 (SD)*MedianPost *[IQR]***b)Disinhibition**MeanPost *(SD)[95% CI]*∆Mean between t0 and *t1 (SD)*MedianPost *[IQR]***c) Feelings of Hunger**MeanPost *(SD)[95% CI]*∆Mean between t0 and t1 *(SD)*MedianPost *[IQR]* | 11.5(3.5) [10.9-12.2]+3.3 (4.2)12[10-14]8.1 (3.6) [7.4-8.8]-1.5 (2.8)8 [6-10]6.0 (3.6) [5.3-6.7]-1.4 (3.6)6 [3-8] | 10.7 (4.8) [9.9-11.7]+2.5 (4.9)11 [7-14]8.5 (3.4) [8.0-9.3]-1.4 (3.4)8 [7-11]6.9 (3.4) [6.3-7.6]-1.5 (3.2)7 [4-10] | F(1)=1.579, *p*=.21ƞp2=.008F(1)=0.12, *p*=.912ƞp2=.000F(1,207)=1.161, *p*=.283ƞp2=.000 |
| **Abbreviations:**∆Mean between t0 and t1=Mean difference from baseline to post intervention; CI=Confidence Interval; GAD-7=generalized anxiety disorder questionnaire; IQR=Interquartile Range; MCID=minimal clinically important difference; n=sample size; PHQ-9=patient health questionnaire; Post=Post intervention/t1; SD=Standard deviation; SF-12=quality of life questionnaire; POS=participants who had a positive attitude towards bariatric surgery; NEG =participants who had a negative attitude towards bariatric surgery; t0=Baseline; TFEQ=Three-factor eating questionnaire; p<.001 is considered as statistically significant |