

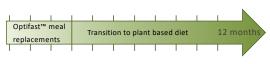
Participation in A Community Based Weight Loss Program Showed Significant Improvement in Patient Reported Outcomes Of Their Mental and Physical Health



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Introduction







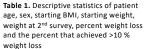
- · Over 650 patients have participated to date.
- 65% of participants achieve >10% total body weight loss
- The 12-item short-form (SF-12) survey is a validated survey to assess physical and mental components of health.2,3

Methods

- · Patients completed the SF-12 survey at the time of enrollment and after at least 3 months.
- 58 participants were retrospectively identified who had two surveys at least 3 months apart.
- · We performed separate paired t-tests, and ANCOVAs on mental component score (MCS), physical component score (PCS) and total scores

Results

Variable	Statistic
Age (Years)	56
Sex (% Female)	82.76
Baseline BMI (kg/m²)	38.8
Baseline Weight (Lbs)	234
Weight at 2nd Survey (Lbs)	204
Weight Loss (Lbs)	30
Percent Weight Loss (%)	13
Percent > 10% weight Loss	68.97



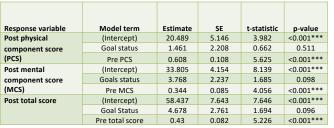


Table 2. Results from separate ANCOVAs performed on Post PCS, Post MCS, and Post Total score as a function of whether the weight loss goal was met after controlling for initial PCS, MCS, and total score, respectively.

Figure 1. Distribution of physical component score, mental component score and total score by period.

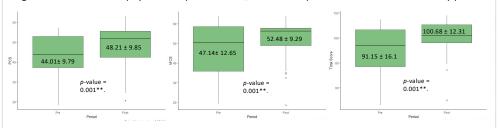
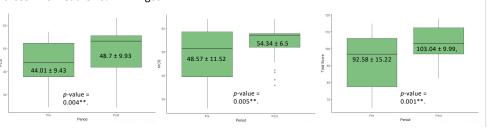


Figure 2. Distribution of physical component score, mental component score and total score by period of those who met the 10% TBWL goal



Discussion

- Participation in a weekly support group focused on education about diet, sleep optimization, exercise and teaching mediation techniques was associated with improved SF-12 scores independent of achieving a 10% body weight loss.
- This suggests that focused education about the four pillars of wellness may improve SF-12 scores independent of weight loss.
- · Future research is being aimed at the potential benefits of a community based weight loss program in terms of reversal of fatty liver disease, metabolic syndrome and improvement of quality of life.

References

1) Hawa E Gunaratnam NT Establishing an Effective Weight Loss Program in a Community-Based Gastroenterology Practice: The Huron Gastro Experience. Clin Gastroenterol Hepatol. 08 2019;17(9):1669-1672. doi:10.1016/j.cgh.2019.02.036 2.) Ware J, Kosinski M, Keller SD. A 12-Item Short-Form Health Survey:

construction of scales and preliminary tests of reliability and validity. Med Care. Mar 1996;34(3):220-33. doi:10.1097/00005650-199603000-00003 3.) Jenkinson C. Layte R. Jenkinson D. et al. A shorter form health survey. can the SF-12 replicate results from the SF-36 in longitudinal studies? J Public Health Med. Jun 1997:19(2):179-86 doi:10.1093/oxfordiournals.pubmed.a024606