

# Individual vs. Group-based Strategies for Weight Loss and Management in Adults: Pen Profile Perceptions

# Clark, C., Chambers, A., Fernandes, J. F. T., Musalek, M., Podstawski, R., Eyre, E. & Duncan, M.

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# Title: Individual vs. Group-based Strategies for Weight Loss and Management in Adults: Pen Profile Perceptions

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 4 <u>Cain C. T. Clark <sup>1\*</sup>.</u>, Amie Chambers <sup>2</sup>., John F. T. Fernandes <sup>2</sup>., Martin Musalek<sup>3</sup>., Robert Podstawski <sup>4</sup>.,
 5 Emma L. J Eyre <sup>1</sup>., Michael Duncan <sup>1</sup>

<sup>6</sup>
 <sup>7</sup> Centre for Sport, Exercise and Life Sciences, Coventry University, Coventry (U.K.), CV1 5FB

8 <sup>2</sup>Hartpury University, Applied Sport Science, Gloucestershire (U.K.), GL19 3BE.

<sup>3</sup> Faculty of Physical Education and Sport, Charles University, Prague, Czech Republic.

- <sup>4</sup> University of Warmia and Mazury, Olsztyn, Department of Physical Education and Sport Olsztyn, Poland
- \*Corresponding author: Dr. Cain C. T. Clark., <u>Cain.Clark@coventry.ac.uk</u>; <u>Twitter: @DrCainCTClark</u>;
   ORCID: http://orcid.org/0000-0002-6610-4617
- 13 Abstract
- 14 Aims

15 The aim of this study was to explore perceptions of barriers, facilitators, strategies and successes in

- 16 individual vs. group-based weight management programmes.
- 17 Methods
- 18 Forty-two, overweight (Body Mass Index  $\geq$  25-kg·m<sup>2</sup>) participants (aged 32-63y) volunteered to take part

19 in this study. All participants completed a 3-month weight loss programme, randomised to a group-based

20 (n=21), or self-monitoring only (n=21) approach, respectively. Participants subsequently participated in a

- 21 semi-structured interview (60±7 mins) to explore individual and collective perceptions of barriers,
- 22 facilitators, strategies and successes.
- 23 *Results*
- 24 Convergent themes were found for individual and group strategies for facilitators, strategies and successes.
- 25 Divergent themes were found between groups for barriers, group participants highlighted expense of
- 26 commercial products, and knowledge of nutrition and dieting, whilst individual participants reported (lack
- 27 of) social support from peers, (lack of) motivation, and occupation.
- 28 Conclusion
- Key stakeholders, facilitators, and individuals must consider these factors prior to the advocation any weightloss strategy.
- 31 Key words: Obesity; Overweight; Weight-loss; Management; Strategy

#### 32 Introduction

33 Obesity, broadly speaking, is characterised by having a body-mass index above  $30 \text{ kg}\text{-m}^2$ , and 34 described as a non-communicable risk factor (Atay & Bereket, 2016). The proportion of adults in the United 35 Kingdom (UK) that are overweight or obese has risen from 57.6% to 68% in men, and from 48.6% to 58% 36 in women between 1993 and 2018; representing an estimated total economic burden of £27 billion (Clark, 37 2018). Indeed, obesity in the UK (and worldwide) is acknowledged as to be an epidemic (Clark, 2018); 38 whilst physical activity has been identified as an integral contributor to a healthy lifestyle (Saunders et al, 39 2016) and can provide immediate and future health benefits (Telema et al, 2013; Shiri et al, 2013), physical 40 inactivity is the largest contributor to risk factors for non-communicable diseases worldwide (WHO, 2010), 41 exacerbating the prevalence of obesity. Strong relationships exist between physical activity and health, with 42 higher physical activity levels leading to reduced risks of coronary heart disease (Li et al, 2012), 43 hypertension (Peters et al, 2006), non-insulin dependent diabetes mellitus (LaMonte, Blair & Church, 2005), 44 stroke (Goldstein, 2010), colon cancer (Wolin et al, 2009), osteoporotic fractures (de Kam et al, 2009) and 45 depression (Martinsen, 2008). Notwithstanding, weight loss and maintenance is multi-factorial, and it has 46 become increasingly apparent that nutrition, support and encouragement, among other facilitators, are pivotal tenets of any weight loss strategy. 47

48

49 The benefits of regular physical activity and a healthy lifestyle have been clearly set out across the 50 life course (WHO, 2010). As such, it has become common practice to promote and encourage overweight 51 and obese individuals towards weight loss strategies and groups, yet there remains no consensus on the most 52 efficacious weight loss strategy. Weight loss or maintenance strategies can be broadly dichotomised into 53 self-monitoring or group-based. Self-monitoring is a common, very easy method of weight loss. Originally, 54 this method was observed using paper records of an individual's diet (Sperduto, Thompson and O'Brien, 55 1986). Such self-monitoring techniques have further expanded to include the addition of physical activity 56 and how individuals pair both factors as a method of behaviour change to lose weight (Wadden, Butryn and 57 Wilson, 2007). Additionally, self-monitoring in terms of self-weighing to track progress has also been identified (Linde et al. 2005). The self-reliant nature of this strategy is asserted to make the individual more
aware of their current behaviours; making goal setting easier, enabling them to track progress and then put
a number to this progress with the weighing (Foster, Makris and Bailer, 2005).

61

Group-based interventions comprise an alternative to self-monitoring that is equally popular as a method of weight loss. For example, the commercially prevalent Weight Watchers (WW) or Slimming World (SW), which are often referrals from primary health care practitioners. These are commercial weightloss programmes that individuals can sign up to of their own volition or are often referrals from primary health care practitioners (Jolly et al., 2007). Individuals sign up with this programme and attend sociable meetings to have a weigh in once a week; and are also able to purchase food, drinks and snacks sold by these companies all in aid of losing weight.

69

70 Empirical evidence has shown the structure and intensity of contact within a weight loss method 71 are significantly correlated with success (Jensen et al., 2013; Wadden et al., 2011); however, inter-72 individual interpretation of such key terms is equivocal. Metzgar et al. (2014) reported that accountability 73 and support, exercise, motivation, total lifestyle change and eating patterns majorly influenced weight loss 74 maintenance. Additionally, Elfhag and Rossner (2005) identified factors associated with successful weight 75 loss included; a high amount of initial weight loss, goal setting, physical activity, regular eating patterns and 76 controlled eating habits. Furthermore, to enhance weight maintenance specifically Elfhag and Rossner 77 (2005) asserted that individuals look for an internal motivation to lose weight, high self-efficacy, coping 78 strategies, social support and strong psychological strength. To ensure this, they suggested that a weight 79 loss method requires an appropriate amount of guidance and support to ensure weight maintenance, which 80 is of high importance within the first three months.

81

Recently, Lemstra and colleagues (2016) observed that self-monitoring weight loss programs have
lower adherence than group-based programmes, 41.5% vs. 68.6%, respectively. There are innumerable

tenets of a successful and sustained weight loss and management programme, yet inter-individual preferences and perceptions of weight-management strategies are less well known; where if such perceptions of weight-management strategies might be best elucidated via qualitative research methodology as it provides more in depth understanding of inter-individual factors that may predispose a weight management strategy to be more or less effective. Therefore, the aim of this study was to explore perceptions of barriers, facilitators, strategies and successes in individual versus group-based weight loss programmes.

90

91 Methods

92 Overview

This study drew on data collected via interviews conducted with forty-two overweight (Body Mass Index  $\geq 25$  kg.m<sup>2</sup>) participants (aged 32-63 years) at the conclusion of a 3-month weight loss programme, randomised to a commercially prevalent group-based (n=21), or self-monitoring only (n=21) approach, respectively. The project received institutional ethical approval and conformed to the Declaration of Helsinki.

98

#### 99 Participants and Settings

Forty-two overweight (Body Mass Index  $\geq$  25-kg·m<sup>2</sup>) participants (aged 32-63y) volunteered to take part in this study. Following anamnesis questioning; all participants verbally confirmed no prior experience of formally taking part in a weight-loss plan, group, or strategy, so to avoid prior personal experiences influencing opinions and beliefs, *a priori*. Participants were randomized into either 3-months of selfmonitoring weight-loss only, or a commercial weight-loss group.

105

Demographic information (age and sex) were collected via Web-based survey, completed during the first week of the study. At the conclusion of the 3-month period, all individuals participated in a semistructured interview. A qualitative approach was used to respect the expert knowledge of the participants and to enable them to provide insights into their experiences (Ridgers et al, 2012). The interviews followed a semi-structured format and were designed to address individual perceptions of barriers, facilitators,
strategies and successes; related to respective weight loss strategies. In total, 42 semi-structured interviews
(60±7 mins) were conducted in participants' home environment by two of the authors, and digitally
recorded. Interviews were subsequently transcribed verbatim, resulting in 210 pages of raw transcription for
further analyses.

115

#### 116 Data Analyses

117 Pen profiles were constructed from verbatim transcripts using a manual protocol (see; Mackintosh 118 et al, 2011; Ridgers et al, 2012). Pen profiles are an increasingly utilized technique that are used to present 119 analysis outcomes via diagrams of composite key emergent themes, and is considered appropriate and 120 accessible to researchers with an affinity for both qualitative and quantitative backgrounds. Example, 121 representative, verbatim quotations were extracted directly from the transcripts to further contextualize the 122 theme. To provide an indication of the prevalence of the themes, the number of times a specific theme was 123 mentioned across all interview data is also presented (Ridgers et al, 2012). Consistent with recommended 124 approaches (Burnard, 1991) one researcher (AC) initially read and analysed the transcripts. These findings 125 were then presented to another researcher, by means of cooperative triangulation. Having independently 126 analysed the transcripts, CC then critically questioned the presented thematic analyses and challenged 127 differing interpretations. A third researcher (RP) subsequently analysed the data in reverse from the pen 128 profiles back to the transcripts. This process assured the reliability of the data obtained (Ridgers et al, 2012). 129 Finally, the pen profiles were re-presented to the lead author, who further critically challenged the data. This 130 process allowed authors to offer alternative interpretations and interrogate the data until a consensus was 131 reached. Overall, methodological rigor (i.e., credibility and transferability) was demonstrated through 132 verbatim transcription of data and triangular consensus procedures. Moreover, dependability was 133 demonstrated through the comparison of pen profiles with verbatim citations and the triangular consensus 134 processes.

135

136 **Results** 

137

#### 138 Barriers to weight loss success

139 Perceptions of barriers to weight loss success were found to be divergent between strategies, where 140 only time constraints was found as a shared theme. Expense of commercial products, and knowledge of 141 nutrition and dieting were attributed to the group-based strategy. Less common barriers were weight 142 maintenance, laziness, the influence of not liking cooking (Figure 1). Exemplar views around barriers 143 include; "I wasn't bought up with the understanding of healthy food" (F32), and, "My eating pattern was 144 very up and down because of my job" (M34). Within the self-monitoring approach, the themes identified 145 were different to the group intervention participants. However, there were also two common barriers specific 146 to the weight-loss method; lack of freedom self-monitoring provides, and a lack of social support from 147 peers. Lesser referred to barriers identified were lack of motivation, the influence of the participants' 148 occupation (Figure 1).

149

#### 150 **\*\*\*Figure 1 about here\*\*\***

151

#### 152 Contributors to weight loss success

153 Convergent overarching themes were noted for individual and group strategies; including exercise, diet and 154 personal factors. The group intervention participants identified enjoyment and improving health as 155 successors to exercise (Figure 2). With respect to diet, reflection, organisation and prior dieting experience 156 were considered to be important to success (Figure 2). Finally, the personal skills identified were increasing 157 self-confidence, improving health, being self-motivated, mental state, making the appropriate changes and 158 self-awareness (Figure 2). The self-monitors observed were improving health, enjoyment, meeting physique 159 goals and the influence of their occupation to be important to successors to exercise (Figure 3). Convergent 160 themes were established between the two groups, for diet: organisation, influence of cooking skills, 161 conscious decision making and reflection; for personal factors: making appropriate changes, self-control,

162	mental state, the influence of their knowledge, time management, influence of their occupation and
163	improving health; for exercise: health improvement, enjoyment and physique goals were reported (Figure
164	3). For instance, the self-monitoring group highlighted that their social support comes from friends and
165	family, "Friends and family are support" (F 41), whilst the group intervention participants stated that their
166	social support came from the group itself, for example "My support is in the group" (F 44).
167	
168	
169	*** Figure 2 about here ***
170	
171	*** Figure 3 about here ***
172	
173	Strategy choice influences
174	Views on strategy choice influences were convergent as overarching themes, where; freedom,
175	enjoyment, ease, structure and consistent weight loss were evident. For example; "It's just so easy for me
176	with the baby" (F34). For the group-based strategy, peer support, weekly schedule and guidance of
177	improving knowledge were additionally found. Whilst, for the self-monitoring strategy, social support from
178	friends was additionally referred to (Figure 4).
179	
180	*** Figure 4 about here ***
181	Discussion
182	
183	The aim of this study was to explore perceptions of barriers, facilitators, strategies and successes in
184	individual only vs. group-based weight management programmes. In accord with our aim, divergent themes
185	were found between groups for barriers, whilst convergent overarching themes were noted for individual
186	and group strategies for facilitators, strategies and successes; including exercise, diet and personal factors.
187	The data presented here offer unique insight into the facets of individual or group-based weight loss

strategies which may predispose individuals to be more or less successful when undertaking a weight loss programme. Such information has yet to be provided by prior work and, as such, the research presented here extends knowledge in the area/constitutes a novel addition to the area. The following topics will be discussed as result of the themes found; strategy choice influences, the importance of social support, maintenance of motivation, organisation, contributors to weight-loss success, guidance, personal factors, exercise, diet, barriers to weight-loss success, lifestyle and personal factors, and, disadvantages of weight-loss methods.

194

#### 195 Strategy choice influences

#### 196 *The importance of social support*

197 Social support was deemed to be an important factor for both weight management programmes, 198 concomitant with previous research, which highlights social support to be a key positive factor contributing 199 adherence (Lemstra et al. 2016). Whilst comparable, in an overarching view, the present work suggests that 200 the two groups found social support from different places. Karfopoulou et al. (2016) asserts that although 201 social support is important, the type of support received can affect weight maintenance. That is, when 202 comparing individuals who had lost or maintained weight for a year to those who re-gained it, those who 203 maintained weight loss had received compliments, in comparison to the re-gainers, who had received verbal 204 instructions. This highlights that the support from peers needs to be positive for the individual to maintain 205 motivation. This could explain why the self-monitors sought social support within a weight loss method, 206 given it is not as readily available compared to group intervention.

207

#### 208 *Maintenance of motivation*

Other factors relating to maintaining motivation were found through the thematic analyses, where both the groups acknowledged that a pattern of constant weight loss each week will keep them motivated. Participants also highlighted their goals in terms of numbers i.e. the importance of monitoring their weight, to succeed. This could suggest that if the individuals had stopped achieving this weekly weight goal they may have given up, albeit this does require follow-up work to substantiate. Both self-monitoring and group 214 interventions facilitate participants to track this progress by integrating a weekly weighing/tracking progress 215 system; although there is a dearth of empirical evidence that specifically identifies this as a mechanism to 216 motivation maintenance, there is evidence for the underlying principles. For example, Elfhag and Rossner 217 (2005) support the concept of meeting weight loss goals to be important to participants alongside identifying 218 that individuals who have a high initial weight loss are more likely to maintain their weight lost. Whilst 219 Wing and Hill (2001) assert that regular self-monitoring of weight is crucial for weight maintenance, 220 inferring that if individuals are to choose a weight loss method that incorporates tracking, they are more 221 likely to maintain their weight; however, how this system is operationalized is somewhat unequivocal.

222

Within the present study, the participants from both groups also conveyed that the weight loss method they choose needs to provide enjoyment, freedom and ease for them. It is plausible, from the themes highlighted in this study, that participants seek these from a weight loss method to maintain motivation. The ease of a weight loss method is crucial, because if it is complicated, or too restrictive and difficult to fit in to an individuals' lifestyle, it is not conducive to programme maintenance or adherence. Classic empirical evidence, from Schifter and Ajzen (1985), highlights that idiosyncratic preferences of freedom must be evident, thereby facilitating enjoyment; without such affordances, motivation will be deleteriously affected.

230

#### 231 *Organisation*

232 A further theme identified from both groups constituted the need for a structured eating pattern. This 233 highlights the importance of self-organisation, which has previously been deemed an important factor to 234 weight loss success (Elfhag and Rossner, 2005; Kruger, Blanck and Gillespie, 2006). Many of the 235 participants highlighted how their meal patterns had changed due to the weight loss method they had 236 adopted. One practical difference between the two groups is that the group intervention, integrated this 237 structured eating pattern approach from their teachings, for example, using a points-based system (as in 238 Weight Watchers) to control their intake. Conversely, those that self-monitor are required to organise their 239 eating patterns for themselves.

240

#### 241 *Guidance*

242 Within this study, the group intervention participants identified an additional need within their weight 243 loss method, compared to the self-monitors. That is, they highlighted the importance of the organisation of 244 the point-based systems enabling them to control eating habits, in conjunction with the knowledge the 245 leaders or facilitators impart and the provision of educational materials, for example the booklets and 246 recipes. To the authors' knowledge, there exists no research to definitively support that the aforementioned 247 are common influences as to why individuals choose a group-based weight loss intervention. However, 248 within this research, 'guidance' is the difference that dichotomizes the two groups. Notwithstanding, it was 249 evident that self-monitors look for the same core principles within a weight loss method, they are happy 250 volitionally organising their behaviour changes compared to group intervention participants whom seek 251 extra guidance to make appropriate changes.

252

### 253 Contributors to weight loss success

254 *Personal factors* 

255 There are innumerable personality traits and qualities that could influence an individual's likelihood 256 to succeed with weight loss (Montesi et al., 2015), however, within this work, both groups identified similar 257 qualities they deemed important in relation to their weight loss success. Firstly, both groups identified the 258 need to make appropriate changes; whether this be to diet or exercise. Self-control was also identified as an 259 important aspect alongside needing a strong mental state. Finally, both groups identified the importance of 260 improving health, suggesting that if and individual feels intrinsically better, they can see the positive impacts 261 of the weight loss, thereby facilitating increased motivation; a finding which has been affirmed previously 262 (Metzgar et al. 2014). Both groups in the present study also identified other personal factors, albeit in smaller 263 numbers, suggesting the importance of assessing idiosyncratic traits preceding recommendation of a weight 264 loss strategy.

265

266

#### Exercise

267 The importance of exercise has repeatedly been highlighted for positive health trajectories, whilst 268 concomitantly being an effective strategy for weight loss; where it is frequently shown to be a predictor of 269 success in long term healthy weight management (Donnelly et al. 2004; Haus et al. 1994; Ross et al. 2000; 270 Lejeune et al. 2003; Kahkoska et al. 2018). Empirical evidence is equivocal as to the veracity of diet versus 271 exercise for weight-loss or maintenance, given they are two-sides of the same coin, but increased 272 effectiveness of using both in combination is globally advocated. In a comprehensive meta-analysis, 273 Anderson et al. (2001) investigated long-term weight maintenance of participants within structured weight-274 loss programmes; six constituent studies concluded that participants who exercised more frequently, had a 275 significantly greater weight-loss maintenance compared to those who exercised less. Additionally, Wu et 276 al. (2009) showed that whilst lifestyle interventions with a dietary component result in weight loss, 277 interventions combining a dietary and physical activity component result in a greater magnitude of weight 278 loss.

279

280 Irrespective of weight-loss strategy, those participants engaging in physical activity reported 281 homogenous themes, highlighting the importance of improving health. Concurrently, participants stated 282 they enjoyed the forms of exercise they did. Previous research demonstrates adherence rates in exercise to 283 be increased synchronously with enjoyment (Ryan et al. 1997; Hagberg et al. 2008). There was a range of 284 physical activities reported, from aqua aerobics, yoga and horse riding to gym-going. Evidently, numerous 285 forms of exercise appeal to various individuals, suggesting that a symbiotic relationship between weight 286 loss interventions and proximity to facilities that enable physical activity (e.g. sports and leisure centres) 287 may be conducive to physical activity engagement; notwithstanding, this is conjecture and necessitates 288 further investigation. In addition, many self-monitors highlighted that they perceived themselves as having 289 active jobs, which influenced their decision to exercise or not. Whilst many self-monitors highlight specific 290 physique goals they wanted to meet in addition to losing weight, such as increasing musculature.

291

Diet

11

Diet, concomitant to energy balance, has a major influence on an individuals' weight, thus playing a key role in weight loss (Bish et al. 2005; Kruger et al. 2004), concomitant to physical activity (referred to above). Both groups identified the importance of organisation and reflection to their weight loss journey. There is currently limited empirical data exonerating the concept of self-reflection within weight loss specifically. However, the concept of self-reflection has been asserted an important skill, which enables an individual to critically look at what they are doing and make appropriate changes (Baird *et al.* 1991), and by extension within weight-loss.

A stark contrast between the weight loss groups was that the self-monitors identified their cooking skills as a positive influence. Whilst the group intervention participants highlighted this as a barrier. Kruger and colleagues (2006) also reported on the importance of organization and meal planning, alongside the positive influence of liking cooking, as factors relating to successful weight maintenance. This may reveal a tenet for improvement in group-based strategies, notwithstanding, cooking preference/ability should be investigated as a potential correlate or determinant of successful weight loss and maintenance.

305

#### 306 Barriers to weight loss success

Barriers are an acknowledgedly important aspect to consider for potential weight loss; whilst there are factors individuals cannot control, for example developmental determinants, age and sex, many other, controllable or changeable, environmental and social factors can heavily influence weight loss and maintenance, ultimately becoming barriers to success (Weight Management, 2003). Both weight loss groups identified a range of barriers to weight loss success, however, there were few similarities noted between the two groups.

313

- 314 *Lifestyle and personal factors*
- 315

Both groups identified time as a perceived barrier, for example, in response to questions referring to preparation of food and participating in exercise. In particular, the self-monitors also stated that their occupation was a major time barrier for exercise participation. Much empirical data exists in support of the
current findings (that time was a major barrier), particularly with reference to exercise (Trost et al. 2002;
Andajani-Sutjahjo et al. 2004). Welch et al. (2008) found that 40% of 1,580 women stated time is a barrier
to achieving dietary goals, and 70% of 1,521 women asserted time as a barrier to achieving physical activity
goals.

323

Intrinsic motivation is very common theme across weight loss research, where self-motivation paired with an internal motivation to lose weight have been identified as predictors of weight loss success (Elfhag and Rossner, 2005; Teixeira et al. 2005). Within the present study, self-monitors identified (lack of) intrinsic motivation as a barrier with much greater prevalence than the group intervention, in fact, among group intervention participants, this was not found as a universal theme. Given the lack of motivation experienced by only one intervention in the present study, further investigations into this phenomenon should be encouraged.

331

In the current study, the group intervention participants asserted weight maintenance as an importance aspect. Highlighting the importance of sustained weight loss or management, and linked to a further perceived barrier, mental state, which, in a likely cyclical relationship, is exacerbated by reverting towards starting weight. This relationship warrants deeper investigation to facilitate our understanding of mental state and weight management.

337

#### 338 Disadvantages of weight loss methods

339

Due to the self-monitoring participants having greater perceived control over their approach/strategy to weight loss, the barriers they identified were generally not related to the weight loss method itself, rather the inverse, the abundant freedom was perceived as a potential drawback, whilst paradoxically positively influencing their choice of strategy. This paradox demonstrates the intricacies of individual weight loss 344 method selection, opposed to a one size fits all approach. Freedom within a weight loss method might 345 facilitate the participant's control over their physical activity regime, food portions and calorie restrictions. 346 Whilst these are fundamental tenets of any weight loss programme, it likely necessitates self-control and 347 understanding (Klem et al. 1997; Leahey et al. 2014). Conversely, the group intervention participants did 348 not identify freedom as a barrier, only a strategy choice influence, inferring that the group-based sessions 349 provide adequate education and support to facilitate better understanding and self-control in their 350 participants. The group intervention participants highlighted two barriers to success relating to their method 351 choice. Firstly, the expense of the commercial group products, and, secondly, prior knowledge of nutrition 352 and dieting. Klohe-Lehman et al. (2006) support the importance of knowledge for weight loss success, 353 highlighting that the amount of weight the participants lost after the intervention, significantly, positively 354 correlated with the amount of knowledge they gained, albeit subjectively ascertained, this suggests that 355 greater [perception of] knowledge, is associated with greater weight loss success.

356

#### 357 Limitations

358

359 This study evaluated participants views in response to 3-months following a weight loss programme, 360 however, given the importance of weight management, in addition to weight loss, a longer follow up period 361 could be implemented to assess the changing views, as an individuals' weight loss journey continues. The 362 interventions employed in this study were 3-months in duration, however, were a longer intervention 363 implemented, participant views may have differed, and as such, should be considered in further research. 364 Of importance is that this study did not distinguish between those who were successful or unsuccessful on 365 their weight loss programme; but assert the information gleaned from this work are equally as important on 366 ones' weight-loss or maintenance journey, where 3-months is only the beginning. We therefore recommend 367 that a comprehensive, longitudinal investigation of perceptions and actual weight loss be conducted. Finally, 368 the participants represented quite a broad age range, it would be advantageous to explore age specific groups 369 to investigate the intricacies of how views related to weight loss evolve with age.

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### 371 Conclusion

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572	
373	Whilst facilitators, strategies and successes related to individual only vs group weight-loss approaches
374	were comparable between groups, divergent perceived barriers were found, highlighting that there is not
375	one panacea strategy for weight loss or management. Therefore, it is recommended that key stakeholders,
376	facilitators and individuals must consider these factors prior to the advocation of any one-particular weight
377	loss strategy, and use individual/patient experience to facilitate the abatement of perceived barriers.
378	Data Availability
379	The data used to support the findings of this study are available from the corresponding author upon request
380	Conflicts of Interest
381	The authors do hereby declare that they have no conflicts of interest relevant to the content of this
382	manuscript.
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# 1 Figure captions

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3	FIGURE 1. Barriers to weight loss success for group and individual strategies
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5	FIGURE 2. Contributors to weight loss for group strategies
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7	FIGURE 3. Contributors to weight loss success for individual strategies
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9	FIGURE 4. Strategy choice influences for group and individual weight loss
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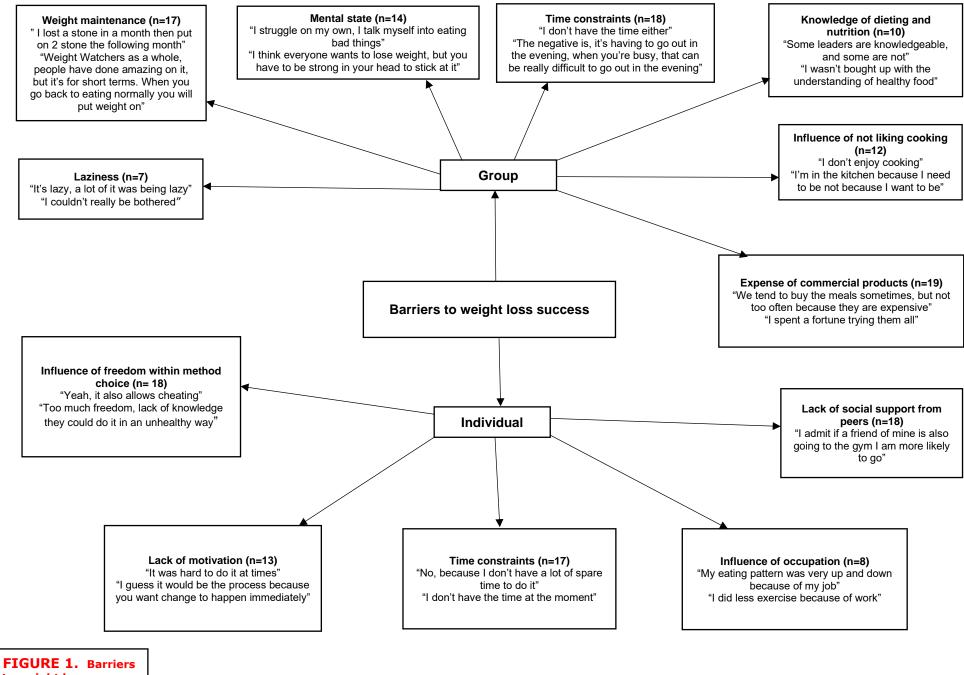


FIGURE 1. Barriers to weight loss success for group and individual strategies

