Do people's goals for mass participation sporting events matter? A self-determination theory perspective

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ABSTRACT

Background Non-elite mass participation sports events (MPSEs) may hold potential as a physical activity promotion tool. Research into why people participate in these events and what goals they are pursuing is lacking. Grounded in self-determination theory, this study examined the associations between MPSE participants' goals, event experiences and physical activity.

Methods A prospective cohort study was conducted; pre-event, participants reported their goals for the event. Four weeks post-event, participants reported their motivation for exercise, perceptions of their event achievement and moderate-to-vigorous intensity physical activity (MVPA). Bivariate correlations and path analysis were performed on data from 114 adults.

Results Intrinsic goals (e.g. health, skill and social affiliation) for the event were positively associated with perceptions of event achievement, whereas extrinsic goals (e.g. appearance or social recognition) were not. Event achievement was positively associated with post-event autonomous motivation, which in turn was positively associated with MVPA.

Conclusions Pursuing intrinsic but not extrinsic goals for MPSEs is associated with greater perceptions of event achievement, which in turn is associated with post-event autonomous motivation and MVPA.

Introduction

Physical activity during adulthood is associated with better physical and psychological health;¹ yet, many adults in the UK are insufficiently active.² Effective physical activity interventions are therefore needed. Mass participation sports events (MPSEs) are a proposed way to promote physical activity.³ Non-elite MPSEs are events in which 'the primary focus is on promoting participation and engagement rather than the significance of the sporting outcome'.⁴

There is limited evidence that MPSEs have broad appeal to people who are newly or infrequently active. While over half of respondents who registered for their first parkrun (a weekly, timed community-based running event) were non-runners (25.3%) or occasional runner/joggers (26%), other evidence suggests that MPSEs may not attract the least active. Some population subgroups with typically low levels of physical activity were well represented in the study of parkrun including women, overweight individuals and older adults. However, representation from ethnic

minorities and lower socio-economic groups was disproportionately low.⁶ Similarly, a pre-event survey of participants in an annual cycling MPSE in Australia found that women were under-represented (28%) and 85.29% of all respondents were already sufficiently active.⁷

The impact of MPSE participation on physical activity maintenance remains unclear. Previous research has shown that physical activity increases as people train for an event; 11 however, around one-third of study participants in the 2007 Dublin Mini Marathon (a 10k women-only event) reported a substantial decrease in their physical activity 3 months postevent. 12 Thus, while MPSEs may prompt short-term physical activity, motivation may not be sufficient to sustain it. Participation in charity MPSEs is becoming increasingly popular, 13 and charity goals may represent a standalone or

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additional driver for entering events. As such, understanding the motivation of MPSE participants is important.

Accessibility and inclusivity of events (freedom) and the opportunity to help oneself and give something to others (reciprocity) were important for both initial motivation and continued participation in parkrun. Furthermore, health and fitness reasons were drivers of initial attendance with goal attainment (e.g. performance or attendance), social benefits and giving back to the community also important contributors to sustained involvement. Similarly, in a womenonly triathlon series in New Zealand, participation was strongly driven by challenge and competition, followed by enjoyment, health and stress management. Beyond these descriptive findings, little is known about whether MPSE participants' pre-event goals could influence their experiences of an event, the quality of their post-event motivation and/or their physical activity.

One framework that has been used to understand the quality of MPSE participants' motivation¹¹ is selfdetermination theory (SDT). 15 In SDT, motivation is conceptualized from the perspective of both people's behavioural regulation (i.e. the reasons 'why') and the content of their goals (i.e. the 'what'). 15 Regarding behavioural regulation, motivation is arranged along a continuum from controlled forms (e.g. to seek rewards, avoid punishment or feelings of guilt) to more autonomous forms (e.g. being driven by valued benefits, actions which align with one's broader sense of self or for fun and inherent satisfaction). Autonomous forms of motivation are associated with positive cognitive, affective and behavioural outcomes in physical activity, whereas in general, controlled motivation either undermines or is not associated with these outcomes. 16-18 Within Goal Content Theory, a mini-theory within SDT, 19 people's exercise goals are characterized as either intrinsic (i.e. goals for health, skill or social affiliation) or extrinsic (e.g. appearance or social recognition goals). Pursuit of intrinsic, relative to extrinsic, exercise goals have been associated with more autonomous forms of motivation, indicators of well-being, greater physical self-worth, lower exercise anxiety and exercise/physical activity. 17,20-21

Previous work suggests that MPSE participation is driven by different motivation regulations (e.g. some will be motivated by enjoyment and others because they feel obliged having signed up) and varied goals for the MPSE (e.g. some related to health or improving performance and others to improve their appearance). According to SDT and previous research, these different regulations and goals will associate differently with behavioural and psychosocial variables related to MPSE participation. Funk *et al.* 11 found that enjoyment-based motives were positively associated with

running commitment and that strength and endurance, stress management, challenge and health pressure motives were weakly but positively associated with future intention to exercise among road race participants.

A limitation of previous studies that have applied SDT to MPSE motivation is that they have failed to adequately measure or distinguish the distinct constructs of behavioural regulation (i.e. autonomous versus controlled motivation) and goal content (i.e. intrinsic versus extrinsic goals). Recent developments in goal content theory¹⁹ and measurement in the exercise context²² allow for SDT to be more rigorously applied to understand motivational *quality* of MPSE participants.

In this study, we examine the associations between MPSE participants' event goals and their perceptions of event achievement and whether event achievement was associated with post-event motivational quality and, in turn, post-event physical activity.

Methods

A prospective design was used in which participants of The Great Midlands Fun Run (GMFR), a UK-based 8.5-mile mass participation running event, completed an online survey pre-event and 4 weeks post-event. The study received ethical approval by a University of Bristol Ethics Committee.

Recruitment

All 2014 GMFR entrants aged 18 years or older were eligible and received an e-mail upon registration, which included a hyperlink to the pre-event online survey. Entrants were subsequently e-mailed two newsletters containing the study link. A link to a post-event online survey was e-mailed to participants 4 weeks after the event with a reminder sent 5 days later. Participants were informed that participation was voluntary and that completing/submitting a questionnaire was taken as implied consent.

Measures

Pre-event measures

Demographics

Participants reported their age and gender, ethnicity and education.

Goal content

An adapted version of the Goal Content for Exercise Questionnaire (GCEQ)²² was used to measure participants'

goals for the GMFR event. The GCEQ comprises 20 items assessing intrinsic (i.e. health, social affiliation, skills) and extrinsic (i.e. social recognition, appearance) goals for exercise. Participants were asked to 'indicate the extent to which these goals are important to you when deciding to enter the Great Midlands Fun Run' using a 7-point Likert scale: 1 ('not at all important') to 7 ('extremely important'). As charity-based goals are common in MPSEs, 13 four additional items, based on the charity subscale of the Aspiration Index, 23 were included to form a charity-based intrinsic goal factor: (i) "To raise money for charity; (ii) To give something back to my community; (iii) To raise awareness of a particular charity and (iv) To help others in need'. Exploratory factor analysis with oblimin rotation among the pre-survey sample (N = 395) showed that the 24 items loaded (all >0.35) as expected on factors for health (mean factor loading = 0.70, standard deviation (SD) = 0.14; α = 0.89), social affiliation (mean factor loading = 0.73, SD = 0.12; α = 0.81), skill (mean factor loading = 0.58, SD = 0.23; α = 0.87), charity (mean factor loading = 0.85, SD = 0.11; α = 0.92), social recognition (mean factor loading = 0.69, SD = 0.14; α = 0.90) and appearance (mean factor loading = 0.70, SD = 0.12; $\alpha = 0.92$). Composite intrinsic ($\alpha = 0.88$) and extrinsic $(\alpha = 0.85)$ goal variables were calculated by averaging the items within the intrinsic subscales (health, social affiliation, skill and charity) and the extrinsic subscales (social recognition and appearance).

Post-event measures

Event achievement

Event achievement was measured with four items developed for this study scored on a 7-point Likert scale ranging from 1 ('strongly disagree') to 7 ('strongly agree'): (i) 'I feel that I achieved my goal(s); (ii) After finishing the event I felt happy; (iii) I am satisfied that I achieved my goal(s) and (iv) I enjoyed the event.' An event achievement variable was derived by summing the item scores ($\alpha = 0.90$).

Behavioural regulation

Post-event intrinsic motivation and identified, introjected and extrinsic regulation for exercise were measured using 16 items from the Behavioural Regulation in Exercise Questionnaire (BREQ-2)²⁴. Items were scored on a 5-point Likert scale from 0 ('not true for me') to 4 ('very true for me') and items within each subscale were averaged. The internal consistency of the subscales was intrinsic motivation ($\alpha = 0.88$), identified regulation ($\alpha = 0.81$), introjected regulation ($\alpha = 0.72$) and external motivation ($\alpha = 0.78$).

Physical activity

Participants self-reported their post-event physical activity using the International Physical Activity Questionnaire-Short Form (IPAQ-short).²⁵ Participants were asked separate questions about their walking, moderate-intensity activities and vigorous-intensity activities 'over the last 7 days'. Participants reported the number of days they engaged in these activities for bouts of at least 10 min (frequency) and, if applicable, they were then asked how many minutes they would usually engage in the activity on 'one' of those days (duration). Metabolic Equivalent of Task (MET) minutes per week were calculated by multiplying three items: (i) activity frequency; (ii) activity duration and (iii) the MET value of the activity (3.3 for walking, 4.0 for moderate-intensity activity and 8.0 for vigorous-intensity activity). 26 MVPA was derived by summing the individual activity MET-minutes per week total values. In line with data handling guidelines, ²⁶ data exceeding 180 min were truncated to 180 MET-minutes per week.

Data analysis

Participants who provided complete data at both time points were included in the analysis (N=119). Preliminary analysis was undertaken to visually assess normality of the variables and to detect univariate and multivariate outliers. All variables except intrinsic goals were skewed. After the removal of five multivariate outliers and transformations to MVPA (square root) and event achievement (reflect and log) variables, all variables approximated normal. Results pertaining to associations with the event achievement variable were rereflected prior to reporting so interpretation of the associations was commensurate with the original scale.

Bivariate correlations were explored between the variables. Due to the sample size, path analysis using the sem function in Stata (Version 12.1) was used to examine the hypothesized model (Fig. 1). Observed variables for intrinsic and extrinsic goals, perception of event achievement, autonomous and controlled motivation, and MVPA were specified. Intrinsic and extrinsic goals, and the errors between autonomous and controlled motivation, were allowed to co-vary these variables are conceptually 15 and empirically related. 17 Associations were adjusted for participant age and gender. In line with previous work²⁸ and recommendations,²⁹ model fit was examined using chi-square (χ^2) , the comparative fit index (CFI), root mean square error of approximation (RMSEA) and the standardized root mean residual (SRMR). For the CFI, values of 0.90 and 0.95 indicate good and excellent fit, respectively, and good fit was determined based on an RMSEA of 0.06 and an SRMR of 0.08.

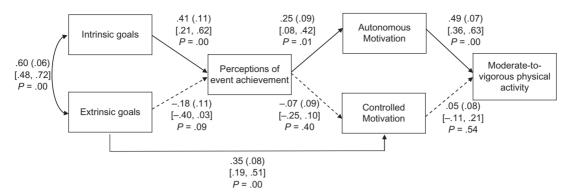


Fig. 1 Path analysis model of MPSE pre-event goals and post-event perceptions of achievement, motivation and physical activity.

Note: Parameter estimates are standardized (standard error) [95% confidence interval, CI] and exact *P*-values. Solid arrows represent estimates where 95% CI does not include zero and dashed arrows represent estimates where the 95% CI includes zero. Covariance between error terms of autonomous and controlled motivation was 0.30 (0.09) [95% CI] = 0.14–0.47, *P* = 0.00.

Table 1 Descriptive statistics and associations between pre-event exercise goals and post-event achievement, motivation and physical activity (n = 114)

	M (SD)	1	2	3	4	5	6
1. Intrinsic goals	3.78 (1.05)	1					
2. Extrinsic goals	3.03 (1.30)	0.60 (0.00)	1				
3. Event achievement	23.73 (4.51)	0.32 (0.00)	0.07 (0.51)	1			
4. Autonomous motivation	3.03 (0.74)	0.09 (0.35)	-0.06 (0.51)	0.29 (0.00)	1		
5. Controlled motivation	0.99 (0.55)	0.09 (0.33)	0.33 (0.00)	-0.01 (0.57)	0.22 (0.02)	1	
6. MVPA ^a	1142.04 (1025.50)	-0.07 (0.49)	0.11 (0.26)	0.18 (0.10)	0.43 (0.00)	0.11 (0.26)	1

^aMET-minutes per week.

M, mean. Exact P-values are presented in parentheses. N = 114.

Results

Participants

Pre- and post-event surveys were completed by 119 participants. Factor analysis of the GCEQ was performed using the pre-event sample (N=395), and correlations and path analysis were performed on 114 participants (after the removal of five outliers). This sample of n=114 with complete data comprised 55.3% females (mean age = 41.11 years, SD = 12.24) and 44.7% males (mean age = 44.14 years, SD = 12.16). Furthermore, 93.9% were White and 59.6% were University educated. Participants who were included in the analysis were not different from those excluded on age, gender, ethnicity or education, intrinsic or extrinsic goal endorsement (results available from the authors on request).

Motivation levels

Participants on average endorsed intrinsic goals a little more strongly than extrinsic goals and reported high autonomous motivation and low controlled motivation (Table 1). Similar to previous work, ²² intrinsic and extrinsic goals were positively correlated.

Path analysis

The initial path model did not fit the data well χ^2 (14) = 30.07, P = 0.007, CFI = 0.79, RMSEA = 0.10 (95% CI = 0.05–0.15), SRMR = 0.07]. Modification indices suggested the addition of a path between extrinsic goals and controlled motivation. This path was added as it is consistent with SDT and evidence that extrinsic exercise goals are conceptually distinct from but positively correlated with controlled motivation. The revised model (Fig. 1) showed excellent fit to the data χ^2 (13) = 14.46, P = 0.34, CFI = 0.98, RMSEA = 0.03 (95% CI = 0.00–0.10), SRMR = 0.05]. Intrinsic goals for the GMFR event were positively associated with event achievement, whereas extrinsic goals were not. Event achievement was positively associated with post-event mVPA. Controlled

motivation was neither associated with event achievement nor MVPA.

Discussion

Main finding of this study

MPSE entrants in this study held both intrinsic and extrinsic participation goals and were on average more strongly motivated by autonomous than controlled behavioural regulations. Intrinsic goals were associated with greater event achievement, which was in turn associated with greater post-event autonomous motivation. While autonomous post-event motivation based on enjoyment of exercise and identification with its personal benefits was positively associated with self-reported MVPA, controlled motivation (based on guilt or satisfying external demands) was not.

What is already known on this topic?

Although it has been suggested that MPSEs could increase population physical activity,³ such events could inspire shortterm motivation that would not support long-term physical activity. 5,9,12 Previous evidence shows that when MPSE participants were more satisfied with their event experience, they held stronger attitudes toward regular physical activity. 11 People are motivated to participate in MPSEs for enjoyment, health improvement, stress management, strength and endurance, social interaction, challenge and competition, 5,6,11,13 and to fundraise for charity. 13 Funk et al. 11 identified enjoyment, competition and positive health motivations to be positively associated with running commitment. However, while couched in SDT, previous work has not comprehensively examined the quality of MPSE participants' motivation which the theory allows.

SDT posits that different underlying motivation types and goals predict different behavioural and psychosocial outcomes. 15,21 From this perspective, to contribute to sustained physical activity, it is important that MPSEs help people to foster adaptive motivation (i.e. autonomous motivation and intrinsic goals), which is more likely to be associated with sustained physical activity and behavioural persistence than maladaptive forms of motivation (i.e. controlled motivation and extrinsic goals).³⁰ Positive associations have been observed between adults' autonomous motivation and objectively measured physical activity. 16-17

What this study adds

By assessing MPSE participants' motivation and goal content in line with SDT, this study extends what is known about the motivation of entrants before and after a mass

participation running event and the potential correlates of different types of motivation. Our findings build on previous work⁵ by suggesting that intrinsic event-based goals (i.e. to improve one's health) were associated with entrants' perceptions of event achievement. This finding is also in line with research showing that intrinsic goals for physical activity are associated with well-being and positive selfperceptions.²¹ In turn, perceptions of event achievement were associated with greater post-event autonomous motivation for physical activity, which commensurate with previous work, 16,17 was associated with greater MVPA. Together, these findings could be important for understanding how to optimize the advertising and marketing of MPSEs (e.g. by highlighting the enjoyment, health, social and charity benefits of participation) to increase the likelihood of entrants' having positive experiences, adaptive post-event motivation and sustained physical activity.

Extrinsic event goals were not associated with event achievement but were associated with low-quality controlled post-event motivation for physical activity, which was itself not associated with post-event physical activity behaviour. As such, pursuing extrinsic goals (e.g. to improve one's appearance), while perhaps enough to provide some people with short-term motivation to enter and participate in an MPSE, do not seem to be associated with positive event experiences or longer term physical activity for MPSE entrants.

Limitations of this study

Although data were collected at two time points, the sample size was relatively small due to loss to follow-up. While our findings provide preliminary evidence for the associations examined, future research should examine the long-term correlates of MPSE motivation and strategies to encourage participation in post-event surveys are needed. Physical activity was self-reported, an objective measurement of physical activity, for example accelerometers, 31 would provide more accurate estimates. A prospective study that assesses participants' physical activity, motivation for physical activity and event/exercise goals at different time points would provide clearer temporal evidence. Similarly, a key question is whether MPSEs attract people who are already relatively physically active, thus limiting their public health potential. However, measuring the activity levels of entrants is likely to capture short-term training rather than habitual pre-event activity. Embedding a question regarding participation in MPSEs in an existing cohort study that includes repeated objective measurement of physical activity would be a potential solution. Finally, the 8.5 mile distance of the GMFR would be challenging to novice runners, which could have influenced who participated in the event. Future research could examine participants' motivation for shorter distance events and different types of events (e.g. cycling).

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