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Abstract: Objective: This study examined how achievement goals are related to athletes' eating disorders. Method: The sample consisted of 196 female adolescents involved in aesthetic sports at an elite level. Data were examined through structural equation modeling.

Results: The data showed that performance-avoidance goals were negatively related to eating disorders, whereas both performance-approach and mastery-avoidance goals positively predicted these disorders. These findings indicate that performance-approach and mastery-avoidance goals may be risk factors for the development of eating disorders, whereas performance-avoidance goals may have protective effects.

Effects of Achievement Goals on Female Aesthetic Athletes' Disordered Eating
Attitudes

Effets des Buts d'Accomplissement sur les Désordres Alimentaires des Athlètes
Féminines en Sports Esthétiques

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Abstract

Objective: This study examined how achievement goals are related to athletes' eating disorders. Method: The sample consisted of 196 female adolescents involved in aesthetic sports at an elite level. Data were examined through structural equation modeling. Results: The data showed that performance-avoidance goals were negatively related to eating disorders, whereas both performance-approach and mastery-avoidance goals positively predicted these disorders. These findings indicate that performance-approach and mastery-avoidance goals may be risk factors for the development of eating disorders, whereas performance-avoidance goals may have protective effects.

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1 Effets des Buts d'Accomplissement sur les Désordres Alimentaires des Athlètes

2 Féminines en Sports Esthétiques

4 Résumé

5 Objectif: Cette étude examine comment les buts d'accomplissement sont reliés aux désordres
6 alimentaires des athlètes.

7 Méthode: L'échantillon est composé de 196 adolescentes pratiquant un sport esthétique à un
8 niveau élite. Les données étaient examinées à partir de modélisations d'équations structurales.

9 Résultats: Les données montrent que les buts de performance-évitement étaient négativement
10 reliés aux désordres alimentaires, alors qu'aussi bien les buts de performance-approche et
11 maîtrise-évitement prédisaient positivement ces désordres. Ces résultats indiquent que les buts
12 de performance-approche et maîtrise-évitement peuvent être considérés comme des facteurs
13 de risque des désordres alimentaires, tandis que les buts de performance-évitement peuvent
14 avoir un effet protecteur.

17 **Mots clefs:** motivation d'accomplissement; désordres alimentaires; sport d'élite.

Effects of Approach and Avoidance Goals on Female Aesthetic Athletes' Disordered

Eating Attitudes

Introduction

Several factors influence the development of disordered eating attitudes, which can be defined as maladaptive attitudes toward eating and weight control. These attitudes and behaviors range from eating habits to help with weight loss or maintenance to severe or harsh food restriction (Hobart & Smucker, 2000; Petrie & Greenleaf, 2007). Thinness norms can confer a competitive advantage in certain sports and, unsurprisingly, participation in these sports carries a high risk of developing an eating disorder (Petrie & Greenleaf, 2007). Indeed, sports judged on aesthetic criteria emphasize the appearance of athletes' bodies and/or require a specific morphology (e.g., figure skating, gymnastics) (Beals & Manore, 2000; Smolak, Murnen, & Ruble, 2000; Sherman & Thompson, 2009; Sundgot-Borgen & Torstveit, 2004). Some athletes in aesthetic sports thus often struggle to conform to an ideal body weight in order to present an aesthetically pleasing appearance, whereas others may struggle to maintain low body weight or stay within a specific weight category in order to optimize performance. Maintenance of a specific body weight is essential in all such sports (Sherman & Thompson, 2009), and this pressure is added to the already high pressure to achieve excellence and win. Moreover, sports that require the public display of physical grace and skill are typical achievement contexts that favor eating disorders (Scoffier, Maïano, & d'Arripe-Longueville, 2010), and achievement goal theories might therefore provide insight into the disordered eating of female aesthetic athletes.

The literature in social psychology and sport psychology indicates that disordered eating attitudes develop from a complex interaction of personal and contextual factors (e.g., Jacobi, Hayward, De Zwaan, Kraemer, & Agras, 2004; Petrie & Greenleaf, 2007). Many psychosocial factors of disordered eating attitudes have been examined, such as

1 perfectionism, anxiety, self-esteem, body image, and coaching style. However, the effects of
 2 achievement goals on disturbed eating attitudes have been little explored and no study has
 3 examined the effects within the 2x2 achievement goal framework (Elliott & McGregor,
 4 2001).

5 In the social psychology literature, achievement motives have been examined according
 6 to several conceptualizations. Initially, the achievement model (Ames & Ames, 1984; Dweck
 7 & Legett, 1988; Nicholls, 1984) was based on a bi-dimensional approach to goal-oriented
 8 behavior (mastery *vs.* performance). Performance goals seek to demonstrate ability to others.
 9 Mastery goals, on the other hand, seek to improve and learn, no matter how awkward you
 10 might look to others. Two goals were considered to be particularly important in these
 11 situations, each reflecting a distinct way of subjectively defining success or failure and
 12 judging ability. Then, Elliot and his collaborators (Elliot & Church, 1997; Elliot &
 13 Harackiewicz, 1996) proposed a tri-dimensional approach to achievement goals in which a
 14 distinction between performance-approach and performance-avoidance was operational.
 15 Performance-oriented goals were interpreted as representing the valence of competence (i.e.,
 16 positive and negative valences, respectively).

17 More recently, several authors (e.g., Cury, Elliot, Da Fonséca, & Moller, 2006; Elliot &
 18 McGregor, 2001) have proposed a further conceptual modification to achievement goal theory
 19 by distinguishing between approach and avoidance goals for both mastery and performance;
 20 this was termed the 2x2 model (Elliot & McGregor, 2001). This model thus takes into account
 21 four situational goals: (a) mastery-approach, in which individuals define competence in
 22 reference to either themselves or absolute standards and attribute positive or negative valence
 23 to it; (b) mastery-avoidance, in which individuals define competence in reference to
 24 themselves and attribute positive or negative valence to it. In this case, the goal is to avoid
 25 regressing or not mastering every part of the task; (c) performance-approach, in which

1 individuals define competence normatively and attribute positive valence to it; and (d)
 2 performance-avoidance, in which individuals define competence normatively and attribute
 3 negative valence to it. In this case, the goal is to avoid demonstrating incompetence compared
 4 with others (for a review, see Elliot, 1999, 2005).

5 The research based on the 2x2 model has shown that the achievement goal framework is
 6 useful for predicting and explaining a wide range of variables associated with achievement,
 7 such as intrinsic motivation, perceived competence, and implicit theories (for a review, see
 8 Cury et al., 2006; Elliot & Friedman, 2007; Elliot & McGregor, 2001; Harackiewicz Barron,
 9 Pintrich, Elliot, & Thrash, 2002). From a functional point of view, both goal valences (i.e.,
 10 approach and avoidance) are necessary for successful adaptation (Tamir & Diener, 2008).
 11 Indeed, whereas approach goals facilitate growth and flourishing, avoidance goals facilitate
 12 protection and survival (Tamir & Diener, 2008). Approach and avoidance goals promote
 13 distinct types of affective, cognitive, and behavioral processes, and both are relevant to
 14 adaptive functioning. Overall, the process of pursuing approach goals is different from the
 15 process of pursuing avoidance goals. Approach goals appear to be easier to monitor and more
 16 manageable than avoidance goals. In addition, whereas approach goals elicit positive
 17 cognitions, avoidance goals elicit negative cognitions. According to activity theories,
 18 therefore, the pursuit of approach goals would be more likely to promote well-being than the
 19 pursuit of avoidance goals (Tamir & Diener, 2008).

20 Several studies have examined the effects of the 2x2 achievement goal framework on
 21 a variety of variables. Mastery-approach goals, for example, are related to the use of adaptive
 22 strategies and positive affects (e.g., Elliot & McGregor, 2001) and are generally related to
 23 adaptive achievement patterns. On the other hand, the social psychology literature indicates
 24 that mastery-avoidance goals cannot be categorized into adaptive or maladaptive achievement
 25 patterns (Ciani & Sheldon, in press). Indeed, mastery-avoidance goals are associated with

high-perceived competence, effort, and physical activity (Wang, Biddle, & Elliot, 2007), yet they are also related to maladaptive cognitions such as the fear of losing, worrying, disorganization and low self-regulation (Elliot & Mc Gregor, 2001), and amotivation (Nien & Duda, 2008). Performance-approach goals are related to high-perceived competence and the fear of losing in the sport context (Conroy & Elliot, 2004). Performance-avoidance goals lead to maladaptive cognitions, affects, and behaviors for learning and achievement (e.g., Elliot, Cury, Fryer & Huguet, 2006), and low interest in performance. Thus, performance-approach and performance-avoidance goals constitute maladaptive achievement patterns. But, avoidance strategies might have protected effects (e.g., Elliot, 2005). Avoidance goals, for example, help individuals avoid taking unnecessary risks (e.g., Lauriola & Levin, 2001) or consuming harmful substances (e.g., Worth, Sullivan, Hertel, Rothman, & Jeffery, 2005).

Although several studies have applied the 2x2 model to the variables associated with achievement in academic and athletic contexts, these constructs have not been much examined in relation to health variables. A few studies have been conducted with the bi-dimensional approach to achievement goals (Nicholls, 1984). Duda and colleagues showed that an environment that encouraged mastery seemed to protect female gymnasts from disordered eating attitudes, whereas the perception of a performance-oriented climate seemed to have a negative impact on the body image of these athletes and their weight concerns and predisposed them to disordered eating attitudes and low self-esteem (Duda, 2001; Duda & Bernadot, 1997; Duda & Kim, 1997). In addition, the study of Chi (2004) showed that performance goals could lead to destructive behaviors like drug abuse, alcoholism, or extreme weight control.

De Bruin, Bakker and Oudejans (2008) reported partial correlations suggesting that strong ego orientation was associated with more dieting behavior, greater tendency toward perfectionism, greater vulnerability to peer pressure about weight, and lower self-esteem. In

contrast, the perception of a mastery-oriented climate was correlated with less dieting behavior and less vulnerability to pressure about weight from peers and coach. Most importantly, regression analysis showed that after controlling for body mass index, both ego orientation and mastery climate made a unique significant contribution to explaining dieting variance. Maugendre, Spitz, and Lanfranchi (2009) also showed that extrinsic motivation, amotivation and goals influence the development of eating disorders in young girls practicing a sport intensively (more than 8 hours per week).

Recently, Scoffier, Gernigon and d'Arripe-Longueville (2011) applied the 2x2 achievement goal model in a study of figure skaters. They showed that induced mastery-approach goals and performance-avoidance goals were associated with a greater capacity for self-regulation of eating attitudes than induced performance-approach goals and mastery-avoidance goals. The relationships were the same at both self-reported and behavioral levels, except for the performance-approach goals, which were not significantly related to the self-reported measure of the self-regulation of eating attitudes. This study confirmed the interest in distinguishing between the approach and avoidance valences of achievement goals. As the sample was relatively small, however, and included only figure skaters, a next step would be to study a larger sample with athletes from different aesthetic sports.

The present study thus aimed to examine the concomitant relationships between the four achievement goals defined in the 2x2 model and disordered eating attitudes. We expected that achievement goals would be related to disordered eating attitudes in diversified ways (Scoffier et al., 2011), but that these differences would be the same across aesthetic sports. We assumed that mastery-approach goals would protect against disordered eating attitudes (Duda, 2001), as this type of goal is usually associated with adaptive patterns (Elliott & McGregor, 2001; Warburton & Spray, 2008). On the other hand, we expected that performance-approach goals would predispose to disordered eating attitudes (Chi, 2004; De

Bruin et al., 2009; Duda, 2001). Performance-avoidance goals are usually associated with maladaptive patterns of accomplishment like low perceived competence, low self-determination, strong entity theory (Elliot & McGregor, 2001), and low intrinsic motivation (Cury et al., 2006), and we thus hypothesized that this situational goal would favor the appearance of disordered eating attitudes. Elliot and McGregor (2001) associated mastery-avoidance goals with the fear of losing, worrying, disorganization and low self-regulation, while Wang, Biddle and Elliot (2007) associated mastery-avoidance goals with high-perceived competence, effort, and physical activity. We thus assumed that mastery-avoidance goals would be vectors of adaptive or maladaptive patterns and would either predispose or not to disordered eating attitudes; this relationship was therefore examined in an exploratory way.

Method

Participants and Procedure

The sample was composed of 196 French voluntary high-level female athletes. The ages ranged from 13 to 20 years ($M_{age} = 17.06$; $SD = 4.41$) and all participants practiced gymnastics ($N_g = 131$) or figure skating ($N_s = 65$) intensively ($M = 8.65$ hours per week, $SD = 5.55$), with a minimum of five years of experience in national or international competition ($M = 8.75$; $SD = 2.40$). The ethical committee of the University of Nice Sophia-Antipolis approved the study and we obtained written informed consent from participants and their parents for minors. The questionnaires were completed either at the beginning or the end of training sessions, depending on the athlete's availability. Questionnaire completion was carried out under standardized conditions (i.e., isolation, paper, pencil, and prohibition to communicate) and did not exceed 20 minutes.

2.2. Measures

Achievement goals. A validated French version (Schiano-Lomoriello, Cury, & Da Fonséca, 2005) of Elliot and McGregor's (2001) *Achievement Goals Questionnaire* was used

to assess the four goals in the 2x2 model. Three items assess each goal (mastery-approach: e.g., “This term, I want to learn as much as possible in my sport”; performance-approach: e.g., “This term, it is important for me to do better than other athletes”; mastery-avoidance: e.g., “My goal this term is to avoid learning less than I possibly could in my sport”; and performance-avoidance: e.g., “My goal this term is to avoid performing worse than other athletes”). This questionnaire is actually used for adolescents and adults in studies. Participants responded on a Likert-type scale from 1 (*strongly disagree*) to 7 (*strongly agree*). Each subscale exhibited satisfactory internal consistency based on the study sample (respectively, .74, .78, .82, and .83).

Disturbed eating attitudes. Eating attitudes and behaviors were assessed with the French version of the Garner, Olmsted, Bohr and Garfinkel (1982) *Eating Attitudes Test* (Leichner, Steiger, Puentes-Neuman, Perreault, & Gottheil, 1994). This 26-item self-report inventory comprises three subscales: dieting, bulimia and oral control (e.g., “The desire to be thinner worries me”; “I cut up my food in small pieces”; “I vomit after eating”) and is actually used for adolescents and adults in studies. Participants responded to items on a 6-point Likert-type scale ranging from 1 (*always*) to 6 (*never*). As the participant did not present clinical eating disorders and consistent with previous studies (Scoffier et al., 2009), only a global index measuring disturbed attitudes was used. For the analyses, the scores of this questionnaire were reversed. Thus, the higher the score was, the higher the disordered eating attitudes were. This global scale exhibited satisfactory internal consistency based on the study sample ($\rho = .86$).

2.3. Data Analyses

This study tested a model for examining the relationship between achievement goals and disordered eating attitudes. Multivariate analyses of variance (MANOVAs) were performed on all variables to detect differences due to sport type. Analyses were performed using bootstrapped maximum likelihood estimation with the AMOS 7.0 software (Arbuckle, 2006)

because of the significant multivariate non-normality of the data (normalized skewness: 114.35; normalized kurtosis: 28.33). Assessment of model fit was based on multiple indicators recommended by the Comparative Fit Index (CFI), the Tucker-Lewis Index (TLI) (Byrne, 2005; Hu & Bentler, 1998), and Vandenberg and Lance (2000): chi-square (χ^2), the Root Mean Square Error of Approximation (RMSEA), and the RMSEA 90 Confidence Interval (RMSEA 90% CI). Scale reliability (ρ) was computed from the model's standardized parameter estimates, using the formula: $\rho = (\sum \lambda_i)^2 / ([\sum \lambda_i]^2 + \sum \delta_{ii})$, where λ_i are the factor loadings and δ_{ii} the error variances (Bagozzi & Kimmel, 1995).

The hypothetical model of the influence of the four achievement goals on disordered eating attitudes was examined through structural equation modeling (SEM). Last, the individual parameters of the model, such as error measurement, inter-item correlations, and modifications index, were examined to evaluate the conformity of the model to the data.

Results

Preliminary Analyses

The results of the descriptive statistical analyses are presented in Table 1. The correlation matrix (Pearson's r) (Table 1) highlighted the positive relationships between: (a) performance-avoidance and performance-approach, (b) performance-avoidance and mastery-avoidance, (c) mastery-avoidance and disordered eating attitudes, and (d) performance-approach and disordered eating attitudes.

Multivariate analyses of variance (MANOVAs) were performed on all observed variables to examine the differences due to adolescent sport type (gymnastics vs. figure skating). The analysis of the variables revealed no significant effect of sport type (Wilks $\lambda = .98$, $F_{(5, 188)} = .303$, $p = .95$, $\eta^2 = .70$), indicating that the sample was homogeneous.

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The relationships between variables were examined in a SEM according to the hypothetical model. The SEM provided acceptable goodness-of-fit indices ($\chi^2 (196, 80) = 210.93$; CFI = .95; TLI = .94; RMSEA = .053; IC RMSEA = .034/.071). The model (Figure 1) exhibited the negative influences of performance-avoidance on disordered eating attitudes ($\beta = -.51, p < .05$). We also observed a positive influence of performance-approach and mastery-avoidance on the disordered eating attitudes ($\beta = .52, p < .05$; $\beta = .45, p < .05$ respectively). This SEM explained 53% of the variance of the disordered eating attitudes. All the subscales exhibited good internal consistency (Bagozzi & Kimmel, 1995; Table 1).

Discussion

This study examined the influence of the four achievement goals defined in the 2x2 model on disordered eating attitudes in a large sample of athletes from different aesthetic sports. First, our results showed that, in line with our expectations, performance-approach goals were positive predictors of emerging disordered eating attitudes. This finding agreed with those of Chi (2004) and De Bruin et al. (2009), who showed that performance goals were associated with maladaptive patterns of achievement and could lead to destructive behaviors like drug abuse, alcoholism, or excessive weight control. Mastery-avoidance goals were also positive predictors of disordered eating attitudes. Elliot and McGregor (2001) associated mastery-avoidance with the fear of losing, worry, disorganization and diminished self-regulation. These relationships illustrate the maladaptive patterns linked to mastery-avoidance and reinforce the results observed in the present study between mastery-avoidance and disordered eating attitudes. These two types of goal thus appear to be situational context that are propitious for developing eating disorders.

In accordance with Scoffier et al. (2011), but contrary to our expectations, performance-avoidance was a protective factor. As noted earlier, athletes characterized by high performance-avoidance goals might have a relatively low perception of their physical

abilities. From this perspective, they would be unwilling to go to any lengths to achieve maximal performance and would thus avoid deviant behaviors like disordered eating (Cury, Da Fonseca, Rufo, & Sarrazin, 2002; Scoffier et al., 2009). However, more research is needed to support this supposition. A relationship between mastery-approach and disturbed eating attitudes did not emerge in the structural equation model or the correlation table. This result differs from previous studies in the sport psychology literature (De Bruin et al., 2009). The lack of relationship between these variables could be linked to the competitive period for the participant. Last, our results showed that the distinction between the approach and avoidance valences (Elliot & McGregor, 2001) is particularly relevant for explaining athletes' disturbed eating attitudes in terms of performance goals. The role of this distinction in mastery goals merits further exploration in future research.

To better understand the processes or mechanisms by which achievement goals influence disordered eating attitudes, the variables that may mediate or moderate this relationship should be investigated. One candidate, for example, would be intrinsic motivation, which is positively related to mastery goals and negatively related to performance goals (Grant & Dweck, 2003). It has also been shown that perceived competence moderates the effect of ego orientation in the motivational process, suggesting the hypothesis that ego-oriented subjects who show low perceived competence will manifest a positive relationship with eating disorders, whereas those individuals with high perceived competence will show a negative relationship. Perfectionism is another potential mediator. Perfectionist tendencies can be considered as part of a mode of motivational and achievement-oriented striving (Duda & Hall, 2001). Previous studies have found task goals to be related to adaptive aspects of perfectionism, whereas ego goals have been found to be associated with maladaptive perfectionist tendencies (i.e., Dunn, Dunn, & Syrotuik, 2002). Other studies have shown that eating disorders are more developed in subjects characterized by self-oriented perfectionism

and low satisfaction with body weight (Filaire, Rouveix, Bouget, & Pannafieux, 2007).

To conclude, our results indicated that the 2x2 model of achievement goals applies to disordered eating attitudes in the aesthetic sport context. Mastery-avoidance and performance-approach goals seem to be “risk factors” for the development of eating disorders, and mastery-approach and performance-avoidance goals seem to be protective factors. The results of this study confirmed that the 2x2 achievement goal model can be fruitfully applied to gain insight into the development of eating disorders, as observed in the experiment of Scoffier et al. (2011). We thus can generalize the results observed in our original sample of figure skaters to a broader sample of aesthetic sport athletes.

This study has several limitations. First, the data concerning the key variables were self-reported, suggesting the likelihood that social desirability was operative. Second, the study was cross-sectional in nature; therefore conclusions about causality cannot be inferred. There was just one time of measure and one context. Third, the athletes’ scores on the eating psychopathology measure indicated relatively healthy attitudes; it is therefore unclear whether the relationships observed in this study would extend to athletes with more severe eating disorders. Moreover, as a control group of non-athletes was not included, it is also unclear whether these relationships would extend to the general population. The generalization of the results is also limited to the female gender and an elite level of practice. Last, the participants’ ages and competition experience were not controlled and future research on eating attitudes will thus need to take into account these individual differences.

Perspectives

Our results nevertheless suggest some research perspectives. First, future studies might investigate whether the relationships we obtained can be generalized to athletes in other types of sport or to other types of population, as well as the aforementioned variables that could play a moderation or mediation role in this relationship. Thus, future studies could replicate

the present study with a sample of non-athletic controls, as well as a clinical sample, in order to determine whether the mechanisms involved in the eating psychopathology of athletes are also operative in the general population and patients with eating disorders. Second, the contextual and temporal dimensions could be considered, with future studies examining the current eating behavior, with a temporal control especially concerning the current goals. Moreover, a longitudinal study would provide even stronger evidence of the relationships between variables and should thus also be considered.

If our findings are confirmed, programs to prevent disordered eating attitudes in athletes could be specifically designed to provide appropriate and healthier contexts for goal involvement. For example, programs could be adapted to encourage an orientation toward task mastery as a means to protect from disordered eating attitudes, whereas programs encouraging a performance-oriented climate would be abandoned because of their negative impact on body image and weight concerns, which predisposes athletes to disordered eating and low self-esteem (Duda, 2001; Duda & Bernadot, 1997; Duda & Kim, 1997). Not least, corresponding improvements could be made in the management training programs for sports federations and the approaches to athletes' mental preparation and health maintenance.

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Table 1. Descriptive Statistics and Internal Consistency Coefficients of the Studied Variables and the Correlation Matrix r of Pearson ($N = 196$).

	M	SD	ρ	MApG	PAPG	MAvG	PAvG	DEA
Mastery-approach goal	6.23	1.06	.74	—				
Performance-approach goal	4.86	1.71	.78	.13	—			
Mastery-avoidance goal	4.95	1.73	.82	-.05	.06	—		
Performance-avoidance goal	4.56	1.70	.83	.01	.45*	.44*	—	
Disordered eating attitudes	2.25	.67	.86	.10	.52*	.55*	-.53*	—

Notes: *M*: mean; *SD*: standard deviation; ρ : internal consistency coefficient; MApG: Mastery-Approach Goal; PAPG: Performance-Approach Goal; MAvG: Mastery-Avoidance Goal; PAvG: Performance-Avoidance Goal; DEA: Disordered Eating Attitudes. *: $p < .05$.

Figure

Figure 1. Structural equation modeling of the achievement goals that explained disordered eating attitudes in elite female athletes.

Notes. MAPG: Mastery-Approach Goal; PAPG: Performance-Approach Goal; MAVG: Mastery-Avoidance Goal; PAVG: Performance-Avoidance Goal; DEA: Disordered Eating Attitudes; R²: percentage of explained variance; *: significant standardized estimate coefficients at $p < .05$.

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Conflict of Interest Statement

We certify that there is no conflict of interest with any financial organization regarding the material discussed in the manuscript.

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Réponse au lecteur :

L'objectif de cet article est d'étudier la relation entre les buts d'accomplissements et les désordres alimentaires chez des adolescentes pratiquant un sport esthétique à un niveau élite.

L'article est bien écrit, la problématique est simple et claire et l'étude est bien menée. C'est une étude de type corrélationnelle classique.

Le ou les auteurs montre(nt) ainsi que les buts de performance-évitement sont liés négativement aux désordres alimentaires alors que les buts de performance-approche et maîtrise-évitement prédisent les désordres alimentaires.

Ces résultats sont relativement conformes à la littérature.

L'ensemble du travail est correct en vue d'une publication dans la revue.

Cependant, une critique peut être faite à ce travail et peut faire l'objet d'une amélioration dans la discussion :

L'étude corrélationnelle simple ne met pas en évidence les processus par lequel les buts d'accomplissement influencent les désordres alimentaires et comment le contexte (période d'entraînement, compétition.) pourrait également avoir une influence. Ce dernier point est d'ailleurs mentionné dans les perspectives.

Nous aurions ainsi aimé avoir davantage d'informations sur les processus éventuels par lesquels les buts motivationnels agissent sur les désordres alimentaires en discussion et perspective.

Mis à part, ce côté « descriptif » de l'étude et non explicatif, ce travail est tout à fait correct en vue d'une publication.

➔ Nous remercions le reviewer pour ses commentaires sur notre article. Afin de mieux présenter les processus éventuels par lesquels les buts motivationnels agissent sur les désordres alimentaires en discussion et perspective, nous avons ajouté un paragraphe en page 12 à partir de la ligne 12 du manuscrit proposant des variables ou des mécanismes pouvant expliquer les processus éventuels.

« To better understand the processes or mechanisms by which

achievement goals influence disordered eating attitudes, the variables that may mediate or moderate this relationship should be investigated. One candidate, for example, would be intrinsic motivation, which is positively related to mastery goals and negatively related to performance goals (Grant & Dweck, 2003). It has also been shown that perceived competence moderates the effect of ego orientation in the motivational process, suggesting the hypothesis that ego-oriented subjects who show low perceived competence will manifest a positive relationship with eating disorders, whereas those individuals with high

perceived competence will show a negative relationship. Perfectionism is another potential mediator. Perfectionist tendencies can be considered as part of a mode of motivational and achievement-oriented striving (Duda & Hall, 2001). Previous studies have found task goals to be related to adaptive aspects of perfectionism, whereas ego goals have been found to be associated with maladaptive perfectionist tendencies (i.e., Dunn, Dunn, & Syrotuik, 2002). Other studies have shown that eating disorders are more developed in subjects characterized by self-oriented perfectionism and low satisfaction with body weight (Filaire, Rouveix, Bouget, & Pannafieux, 2007)."