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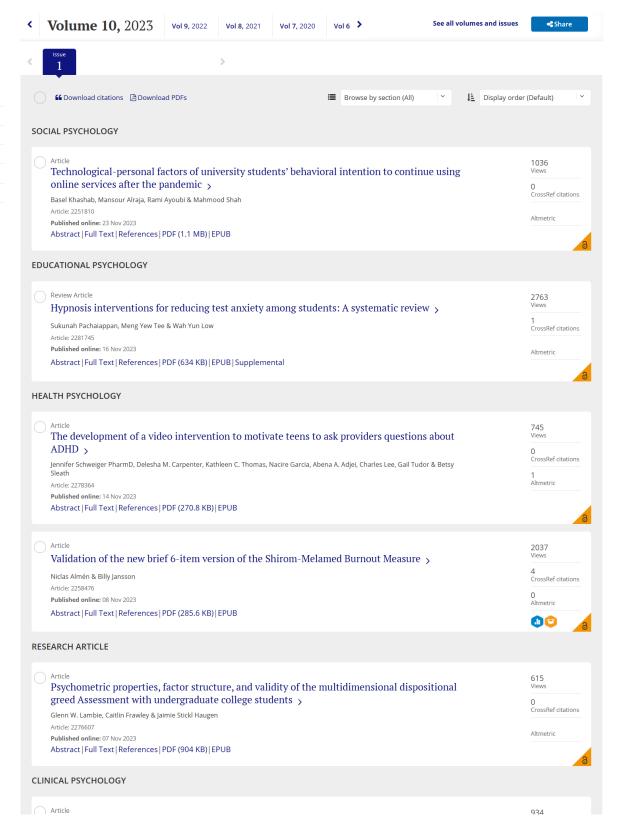




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WORK, INDUSTRIAL & ORGANISATIONAL PSYCHOLOGY	
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HEALTH PSYCHOLOGY	
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Clinical Psychology	
Article Interpersonal valence of ethnocultural empathy > Desheane Newman, Malia L. Moreland, Kyara N. Méndez Serrano & Matthew M. Yalch Article: 2262860 Published online: 15 Oct 2023 Abstract   Full Text   References   PDF (574.7 KB)   EPUB	863 Views  1 CrossRef citations  Altmetric
HEALTH PSYCHOLOGY	
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Correction	
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SOCIAL PSYCHOLOGY	
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Published online: 21 Sep 2023 Abstract Full Text References PDF (1.8 MB) EPUB	Altmetric
CLINICAL PSYCHOLOGY	•
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CLINICAL PSYCHOLOGY	<b></b>
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Abstract Full Text References PDF (2.1 MB) EPUB	4
HEALTH PSYCHOLOGY	
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DEVELOPMENTAL PSYCHOLOGY	
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Cognitive & Experimental Psychology	
Article Experimental induction of state rumination: A study evaluating the efficacy of goal-cueing task in a sample of athletes >	1239 Views 2 CrossRef citations

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COGNITIVE & EXPERIMENTAL	PSYCHOLOGY	
Article		1296
	of dysfunctional metacognitions, CAS strategies, and symptoms	Views 3
Frederick Anyan, Henrik Nordahl Article: 2205258	& Odin Hjemdal	CrossRef citations
Published online: 25 Apr 2023		Altmetric
Abstract Full Text Referenc	tes PDF (4.2 MB) EPUB Supplemental	
EDUCATIONAL PSYCHOLOGY		
Article The impact of a univer	rsal social emotional intervention on students' mental wellbeing in a	1902 Views
secondary public school		1
Noor Al-Wattary & Michael Wyne		CrossRef citations
Article: 2200349  Published online: 12 Apr 2023		0 Altmetric
Abstract Full Text Referenc	tes PDF (283.3 KB) EPUB	
Article		1936
	ss, quality of life, and intrinsic religiosity among college students during A cross-sectional study >	Views 8
	nanna W. Akers, Tracey Turner, Elizabeth Whorley, Kelly Lumpkin, Jenna Rosa & Catherine McElroy	CrossRef citations
Article: 2195091  Published online: 09 Apr 2023		0 Altmetric
Abstract Full Text Referenc	es PDF (327.1 KB) EPUB	
COGNITIVE & EXPERIMENTAL	PSYCHOLOGY	
Article The effect of challengi	ing people's fundamental assumptions about a task: Introducing	940 Views
uncertainty for reducir		0
Nirit Yuviler-Gavish, Doron Faran	& Mark N. Berman	CrossRef citations
Article: 2196102  Published online: 09 Apr 2023		Altmetric
ALC: THE RESIDENCE	ces PDF (3 MB) EPUB	
Abstract Full Text Referenc		
Review Article		1633
Review Article Cognitive testing follow	wing transient ischaemic attack: A systematic review of clinical	Views
Review Article Cognitive testing follor assessment tools >	wing transient ischaemic attack: A systematic review of clinical	
Review Article Cognitive testing followassessment tools > Alexander Hammant, Tamara Ch		Views
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VORK, INDUSTRIAL & ORGANISATIONAL PSYCHOLOGY	
Review Article A systematic literature review of workplace physical activity programs: an exploration of	5818 Views
barriers and enabling factors >	9
Elissa Dabkowski, Joanne E Porter, Michael Barbagallo, Val Prokopiv BA, Christopher Snell & Karen Missen	CrossRef citation
Article: 2186327	Altmetric
Published online: 06 Mar 2023 Abstract   Full Text   References   PDF (420 KB)   EPUB	
CLINICAL PSYCHOLOGY	
Article	1085
Disambiguating the relationship between processing modes and mindfulness in Japan >	Views
Kohei Kambara, Russell S. Kabir, Yugo Kira, Akiko Ogata & Philip J. Barnard	4 CrossRef citation
Article: 2151726  Published online: 05 Mar 2023	0 Altmetric
Abstract Full Text References PDF (361.2 KB) EPUB	Aitmetric
SOCIAL PSYCHOLOGY	
Article	1837 Views
Expanding the CYRM-R to include domains of spirituality and religiosity for use with children and youth in Indonesia	Views 2
Ihsana Sabriani Borualogo M.Si., Psychologist, Kathleen Hyland M.Sc. Applied Forensic Psychology & Philip Jefferies PhD	Z CrossRef citation
Article: 2184115	0 Altmetric
Published online: 02 Mar 2023 Abstract   Full Text   References   PDF (843.9 KB)   EPUB   Supplemental	7 Million C
CLINICAL PSYCHOLOGY	•
Article	1922
Not "just for fun": Gambling, substance use, and the transdiagnostic role of emotion	Views
regulation >  Georgia Panayiotou, Tonia-Flery Artemi, Marios Theodorou, Christiana Theodorou & Klavdia Neophytou	3 CrossRef citation
Article: 2183677	Altmetric
Published online: 01 Mar 2023 Abstract Full Text References PDF (375.2 KB) EPUB	Aitmetric
HEALTH PSYCHOLOGY	•
Article	2614
Self-efficacy and alcohol consumption: Are efficacy measures confounded with motivation?	Views
Tom St Quinton, Ben Morris, Alexander Lithopoulos, Paul Norman, Mark Conner & Ryan E. Rhodes	0 CrossRef citation
Article: 2180872 <b>Published online:</b> 26 Feb 2023	Altmetric
Abstract Full Text References PDF (359.6 KB) EPUB	Nencere
CLINICAL PSYCHOLOGY	4
	1306
Article	Views
Article What is spirituality for women bereaved by a partner's suicide: A qualitative study >	1
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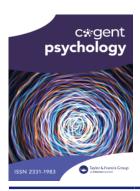
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Article		1729 Views
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Abstract Full Te	xt References PDF (386.8 KB) EPUB	
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Article		3155 Views
	es and their association with heuristic cue and decision-making rules >	2
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Article		2318
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### **HEALTH PSYCHOLOGY | RESEARCH ARTICLE**

# Expanding the Theory of Planned Behavior to Explain Energy Dense Food Intentions among Early Adolescents in Indonesia

Eveline Sarintohe<sup>1,2\*</sup>, Junilla K Larsen<sup>1</sup>, Jacqueline M Vink<sup>1</sup> and Dominique F Maciejewski<sup>1</sup>

**Abstract:** The aim of this study is to examine an extended model of the Theory of Planned Behavior (TPB) and increase insight into the intentions to consume energydense food among adolescents in Indonesia. This study included 411 adolescents from private schools who reported their intentions to consume energy-dense food the next day and the next week, as well as attitudes, subjective norms, descriptive norms, and perceived behavioral control regarding energy-dense food consumption. Linear regression analyses (in R) were conducted to examine associations of TPB determinants (model 1), TPB determinants plus descriptive norms (model 2), and interactions between determinants (model 3) with the intention to consume energy-dense food the (1) next day or (2) next week. Attitudes and subjective norms were positively associated with both the 'next day' and 'next week' energy-dense food intentions (model 1), although associations for the 'next day model' appeared to be stronger. Descriptive norms, compared to subjective norms, were more strongly associated with 'next week intentions', whereas both norms (descriptive and subjective) did not differ in how strongly they were associated with 'next day' intentions (model 2). Significant interactions between TPB constructs were found for the model predicting 'next day' intentions (i.e. subjective norms × attitude and attitude × PBC) (model 3). Our study provides important information about proximal food intentions among collectivistic cultures specifically, which may have crucial implications for future preventive interventions.

Subjects: South Asian Studies; Health Psychology; Health & Development; Health & Society Keywords: Obesity; Energy-dense food; Early adolescents; Theory of Planned Behavior; Descriptive norms; High SEP

#### 1. Introduction

Unhealthy lifestyle changes that have occurred with industrialization, urbanization, economic development, and market globalization have accelerated in developing countries, including Indonesia, over the last decade. These changes, in turn, have had a significant negative impact on the health and nutritional status of Indonesian populations (Popkin et al., 2012; Roemling & Qaim, 2012). The prevalence of obesity has recently increased in Indonesia, not only among adults but also among children and adolescents (National Instituted of Health Research and Development, 2017). In Indonesia, obesity or overweight is more prevalent in individuals from higher Socioeconomic Position (SEP) backgrounds and is often perceived as a sign of affluence (Rachmi et al., 2017; Roemling & Qaim, 2012). As there is less stigma on being obese, the intention to consume unhealthy energy-dense food containing excessive sugar and/or fat (strongly linked to









obesity) might be higher in these groups. Studies have shown that, in particular, children and adolescents often consume fast food and energy-dense food (Kassem & Lee, 2004; Mirkarimi et al., 2016). Given that energy-dense food intentions are closely linked to actual energy-dense food intake (Collins & Mullan, 2011; Weijzen et al., 2008), it is important to understand the intentions to consume energy-dense food among adolescents from higher SEP backgrounds in Indonesia.

Understanding adolescents' intentions to consume energy-dense food may be best apprehended by using theoretical models of human motivation and health behaviors (Hagger & Chatzisarantis, 2009). One important model explaining health intentions is the Theory of Planned Behavior (TPB). According to TPB (Ajzen, 2011, 2019), intentions are formed by three main constructs: (1) positive or negative evaluation toward performing the behavior (i.e. attitudes), (2) perception about the social expectations or how others would approve or disapprove the behavior (i.e. subjective norms), and (3) beliefs related to the perceived control over a particular behavior (i. e. perceived behavioral control—PBC). Previous studies have generally shown that a positive attitude toward behavior (attitudes), getting approval from others (subjective norms), and feeling capable of controlling behavior yourself (PBC) are related to higher intentions to consume energydense food (i.e Collins & Mullan, 2011; McDermott et al., 2015; Zoellner et al., 2012). However, these studies were conducted in developed countries in Europe and America. Moreover, previous European and American studies have shown that energy-dense food intake and eating too much in social contexts have several negative connotations (e.g. being deficient in self-control-Puhl et al., 2020). We do not know whether the same model applies to developing countries such as Indonesia, since intentions to consume energy-dense food seem to be different in these countries, especially in higher SEP groups. Hence, our first research question was to examine whether the classical TPB constructs (i.e. attitudes, subjective norms, and PBC) would be associated with the intention to consume energy-dense food among Indonesian adolescents.

In the adolescent period, peers play a significant role in adolescents' lives in general (Lam et al., 2014) and in food intentions specifically (Fila & Smith, 2006; Patcheep, 2015). That is why the present study focused on norms in the friend context. There is an important distinction in the literature on social influence with regard to different norms (Rivis & Sheeran, 2003). The subjective norms of the classical TPB refer to injunctive norms that are concerned with perceived social pressure and gaining approval or suffering sanctions from significant others. In contrast, descriptive friends' norms refer to the perception of what other people do (in this case, friends; Higgs, 2015). Descriptive norms may also explain energy-dense food intentions. A review of norms with regard to eating behaviors based on research from developed countries in Europe and America has shown that descriptive norms more strongly explain people's health intentions compared to injunctive norms (De la Haye et al., 2013). Indonesia has a more collectivistic culture that is different from the more individualistic cultures in most Western countries. Collectivistic cultures tend to score higher on norms, particularly subjective norms (Chen & Hong, 2015; Chiu et al., 2015). As such, we expected that subjective norms might be more strongly linked to energy-dense food intentions compared to descriptive norms in our Indonesian sample. Our second research question was thus to examine whether descriptive norms, next to the classical TPB constructs, would explain additional interindividual differences in energydense food intentions. In addition, we compared the relative importance of the effects of subjective and descriptive norms on energy-dense food intentions to investigate which of those contributed most to energy-dense food intentions.

Finally, TPB constructs might interact with each other in explaining health intentions. As suggested by Conner & McMillan (1999), attitudes are likely to be more predictive of intentions when the social environment is supportive of the proposed act (i.e. moderating effects of norms on the attitude-intention link) (e.g. Hukkelberg et al., 2014). Moreover, previous studies have found that PBC was positively associated with intentions when attitudes were more positive (i.e. moderating effects of attitudes on the PBC-intention link; Conner & McMillan, 1999; Gourlan et al., 2019; McMillan & Conner, 2003). Thus, our third question was to examine whether the two norms (i.e.

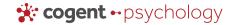
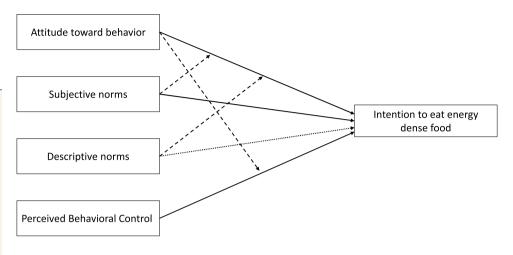


Figure 1. Depiction of hypothesized relations between Theory of Planned Behavior (TBP) constructs and intention to eat energy-dense food.

Note. Solid arrows depict the main effects of attitude toward behavior, and subjective norms and descriptive norms on intention to eat energy-dense food (research question 1). Dotted arrow depicts the main effect of descriptive norms on intention to eat energy-dense food (research question 2). Dashed arrows depict interaction effects between TBP constructs and attitude (research question 3).



subjective and descriptive norms) would moderate the impact of attitudes on intentions and whether attitudes would moderate the impact of PBC on intentions (see dotted lines in Figure 1).

In sum, the current study used an expanded TPB model, including the original constructs of attitude toward behavior, subjective norms, and PBC, as well as an additional construct: descriptive norms. Based on previous research and the collectivistic nature of the Indonesian culture, we expected that the TPB constructs (i.e. more positive evaluation, more approval from friends, and more self-perceived control) in the decision to consume energy-dense food would be associated with higher intentions to eat energy-dense food (hypothesis 1). Moreover, we expected that descriptive norms would explain additional variance on top of the TPB constructs, but that compared to descriptive norms, subjective norms would be more strongly associated with the intention to consume energy-dense food among Indonesian adolescents (hypothesis 2). Finally, we expected that the proposed interactions (i.e. attitude × subjective norms, attitude × descriptive norms, and PBC × attitude) would additionally explain interindividual intentions to consume energy-dense food among Indonesian adolescents (hypothesis 3). These hypothesized relations between the constructs are depicted in Figure 1.

#### 2. Methods

#### 2.1. Participants

This study is part of a larger prospective study, including three waves of data collection. For this study, we used the data of the first wave (October until December 2019). Adolescents were recruited through five private Junior High Schools in four cities (Jakarta, Surabaya, Bandung, and Manado) in Indonesia. A total of 411 students participated in Wave 1. All adolescents ( $M_{age}$  = 12.02 years;  $SD_{age}$  = 0.45; range: 11.02–14.11 years; 53.28% boys) were in seventh grade, i.e. in their first year of Junior High School.

#### 2.2. Procedure

This study was approved by the Ethics Committee of the Faculty of Social Sciences of Radboud University, Nijmegen, The Netherlands (ECSS-2019-115). At the start of the study, we asked for active consent from parents in all schools. In three schools, parents gave active consent by returning a signed form. In two schools, due to school policy, the procedure was different. Active consent was given by the heads of the schools, and passive consent was given by the parents. The Ethics Committee has agreed with this changed procedure (ECSS\_2019\_150). In these two schools,



parents were informed about the study and could object to the participation of their children. Students of all schools were asked to sign a paper consent form indicating that they agreed to (1) participate in the survey study and (2) have their weight and height measured.

At the onset of the study, participants were informed that participation was voluntary, that answers would be processed anonymously, and that they could withdraw from the study at any moment. Adolescents completed a paper self-report survey at school during one classroom hour (approximately 60 min). In addition, adolescents' height and weight were measured at school by the researcher with the help of the school nurse.

#### 2.3. Measurements

We measured intentions, attitudes, subjective norms, descriptive norms, and PBC with self-report Likert scale items. Items were mostly selected from one previous study focusing on high energy-dense food (De la Haye et al., 2013). In addition to the eight items from this study (De la Haye et al., 2013), we added two items for attitudes: one item for each norm and one item for PBC based on two other studies (Gourlan et al., 2019; Kassem & Lee, 2004) to extend the previous items. Items were translated into the Indonesian language using a forward-backward translation procedure and slightly adapted. Specifically, we did not add the time frame (i.e. twice a day) in the TPB items for attitudes, norms, and PBC to avoid too long and unclear Indonesian sentences. For example, we used (in Indonesian language): 'Do your close friends at school think that you should eat high energy food?' instead of 'Do your close friends at school think that you should eat high energy food twice a day?' This has been done in previous Indonesian studies (Ashidiqi & Arundina, 2017; Jan Mei et al., 2021) and also in other studies (e.g. Kruglanski et al., 2015). We asked about next week intentions to eat energy-dense food, as done before (Collins & Mullan, 2011; Gourlan et al., 2019). However, we also added a question about the intention to eat energy-dense food the next day. We have added this question, as in collectivistic cultures, such as the Indonesian culture, people often focus more on the current situation (Wang et al., 2016). As such, shorter-term (i.e. next day) intentions may play a more prominent role compared to longer-term (next week or next month) intentions. Before starting our study, the complete questionnaire was tested among five Indonesian adolescents. These adolescents understood all questions and had no difficulties with completing the questionnaire.

Participants responded to items on a 7-point scale (ranging from 1 to 7). Endpoints varied by item (see below), a high score corresponded with higher values (i.e. more positive attitudes, norms, PBC, and intentions toward energy-dense food intake), and a low score corresponded with lower values, respectively. In the instructions, we defined energy-dense food as food that often contains a lot of salt, sugar, or fat (or all three). We further gave specific examples of energy-dense food products (i.e. salty snacks like chips and crackers; sweets like candy, chocolate, and cake; and fatty foods like French fries and fried products).

#### 2.3.1. Attitude toward behavior

Participants rated their attitude toward eating energy-dense food with three items each rated on a 7-point scale. For each item, participants needed to fill in the following question: 'I think eating high energy food would be...', ranging from 'very annoying' (1) to 'very nice' (7) (item 1), 'unenjoyable' (1) to 'enjoyable' (7) (item 2), and 'very disgusting' (1) to 'very tasty' (7) (item 3). Reliability was sufficient ( $\alpha = .71$ ). The sum scores were calculated with higher values indicating a higher attitude toward eating energy-dense food (possible range = 3–21).

#### 2.3.2. Subjective norms

Subjective norms were measured with three items: Item 1: 'Do your close friends at school think that you should eat high energy food?' with response options ranging from 'they definitely think I should not' (1) to 'they definitely think I should' (7); Item 2: 'How often do your close friends encourage you to eat high energy food?' with response options ranging from 'never' (1) to 'always' (7); and Item 3: 'Most people who are important to me, approve me to eat energy dense food' with response options ranging from 'disagree' (1) to 'agree' (7). The internal consistency of subjective norms was  $\alpha$  = .64. In order to increase reliability, we examined reliability after items deleting. The reliability increased to



 $\rho$  = .74 after removal of item 1 (Spearman–Brown). The item was consequently removed, and the total score for the measure of subjective norms no longer included item 1. The sum scores were calculated with higher values indicating higher subjective norms (possible range = 2–14).

#### 2.3.3. Descriptive norms

Descriptive norms were measured with three items: Item 1: 'Of your close friends at school, how many eat high energy food?'—the participants rated this item with response options ranging from 'none of my close friends' (1) to 'all of my close friends' (7); Item 2: 'How do often your classmates eat high energy food'—with response options ranging from 'less than one day per week or never' (1) to 'daily' (7); and Item 3: 'Most people who are like me, eat energy dense food'—with response options ranging from 'none of them' (1) to 'almost all of them' (7). The internal consistency for descriptive norms was  $\alpha = .74$ . The mean scores were calculated with higher values indicating higher descriptive norms (possible range = 3–21).

#### 2.3.4. PBC

Although PBC was measured with two items during data collection, we focused on only one of these items for two reasons. First, the correlation between two items was low (r = .36,  $p \le .01$ ). Second, there was a concern with regard to the validity of one of the PBC items, as that specific item focused on the restriction of energy-dense foods (i.e. 'I am confident that I can limit my consumption of energy dense food (uncertain—certain)') and not on PBC per se. As such, we did not use this item in our analyses and measured PBC with only 1 item. This item stated 'Eating energy dense food or not is up to me', with response options ranging from 'uncertain' (1) to 'certain' (7; possible range = 1–7). Higher values indicate more PBC, meaning that adolescents indicate that they can decide for themselves whether they eat energy-dense food or not. As such, they more deliberately make their own choice to consume energy-dense food or not, rather than experiencing the consumption of energy-dense food as something outside of their own field of influence.

#### 2.3.5. Intention to consume energy-dense food

To assess the intention of energy-dense food intake, participants rated two items on a 7-point scale, namely 'In the next week, how often do you plan to eat high energy food?' with response options ranging from 'once a week or less' to 'daily' and 'Tomorrow, do you intend to eat high energy food?' with response options ranging from 'definitely do not intend' (1) to 'definitely intend to do this' (7). The two outcomes correlated moderately (r=.40; Cohen, 1988), and internal consistency (Spearman-Brown) of these two items in one scale was low ( $\rho=.58$ ). Given this insufficient internal consistency and the fact that previous studies have mostly focused on weekly intention items and the intention to eat energy-dense foods tomorrow (next day) may not necessarily mean that adolescents will consume energy-dense food the week after, we decided to analyze these items separately and run models for each of the two intention items.

#### 2.4. Data analyses

Data pre-processing and data-analyses were conducted in R 4.0.2 (R Core Team, 2020). The code and output is available via the Open Science Framework under https://osf.io/nqrgu/?view\_only=829705ce24f34e5888cb9c7ba7974ec0. The presence of non-normal distributions in variables was explored using skewness and kurtosis (skewness > 3 and kurtosis > 10; Kline, 2011). Univariate (±3 SD from the mean) outliers were inspected using boxplots. In the case of outliers, those would be winsorized to retain statistical power and attenuate bias (Ghosh & Vogt, 2012).

Linear regression analyses were conducted using the *lm* function from the *base* package to examine the associations and interactions between determinants (attitude toward behavior, subjective and descriptive norms, and PBC) and intention to eat energy-dense food . We analyzed the main and interaction effects in accordance with our hypotheses. In our models, attitude, subjective and descriptive norms, and PBC were our predictors and intention was our outcome (see Figure 1). We ran different models for the two different intention items ('next week' versus



'next day'). In total, we tested five models per intention item: (1) A main effects model of attitude toward behavior, subjective norms, and PBC on intention (hypothesis 1); (2) An additional main effects model, including descriptive norms on top of the main effects included in model 1, to determine the additional value of descriptive norms over and above the other determinants (hypothesis 2). In accordance with our research question regarding the relative strength of subjective versus descriptive norms predicting intention, we compared the two standardized regression coefficients using the car package (Fox & Weisberg, 2019); (3) Three two-way interaction effects models: (a) subjective norms and (b) descriptive norms as a moderator on the relation between attitude toward behavior and intention and (c) attitude toward behavior as a moderator of the relation between PBC and intention (hypothesis 3). For the moderation analyses, interaction terms were calculated by multiplying the predictors and moderators, which were used as predictors in addition to the main effects. Prior to the analyses, the predictors were centered to avoid multicollinearity. We performed simple slope analyses for significant interaction effects (contrasting 1 SD below the mean and 1 SD above the mean) using the interactions package (Long, 2019). In the case of significant interactions, we additionally provided Johnson-Neyman figures depicting regions of significance. The Johnson-Neyman interval provides the slope of the predictor on the outcomes for all possible values of the moderator and can thus pinpoint the exact value of the moderator when the slope of the predictor goes from non-significant to significant. This gives a more fine-grained analyses of the regions of significance (and not only the contrast between -1 SD and +1 SD).

#### 3. Results

With regard to the whole sample dataset (n = 411), no severe outliers were detected and the data were approximately normally distributed (see Table 1). The dataset contained no missing data on any of the variables, including next day and next week intentions. Table 1 shows the descriptive statistics (M, SD) of all study variables as well as their correlations. All predictors (attitude toward behavior, subjective norms, PBC, and descriptive norms) were significantly and positively correlated with the outcomes of 'intention next day' and 'intention next week', respectively. The highest correlation for 'intention next week' was found with descriptive norms (r = .35, p < .001), whereas the highest correlation for 'intention next day' was found with attitude (r = .57, p < .001).

#### 3.1. Intention to consume energy-dense food next week

The result of the main effects model (model 1) showed that more positive attitudes toward energy-dense food intake and higher subjective norms explained higher levels of intention to consume energy-dense food next week (Table 2). PBC did not have an additional significant effect. In total, 10.8% of the variance in 'intentions next week' is explained by the predictors (Adjusted  $R^2$ ). When we added descriptive norms to the main effects model (model 2), the influence of descriptive norms on intention was significant, whereas subjective norms did not predict next week intentions any longer. The effect of attitude remained significant, and the effect of PBC remained non-significant (Adjusted  $R^2 = 15.0\%$ ). The comparison of the two standardized regression

Table 1. Descriptive statistics and correlation coefficients of study variables									
Variables	М	SD	Range	1	2	3	4	5	6
1. Attitude	10.73	4.01	3-21	1					
2. Injunctive norms	5.29	3.09	2-14	.26***	1				
3. PBC	4.65	1.97	1-7	.27***	.17***	1			
4. Descriptive norms	12.00	3.74	3-21	.46***	.33***	.31***	1		
5. Intention next week	3.27	1.76	1-7	.32***	.18***	.14**	.35***	1	
6. Intention next day	2.96	1.71	1-7	.57***	.29***	.20***	.39***	.40***	1

<sup>\*\*</sup>p value < .01, \*\*\* p value < .001



Model and Variables	B (SE)	t	р	b*	B (SE)	t	р	b*		
		Intention 1: Next week, how often do you plan to eat high energy food?					Intention 2: Tomorrow, do you into to eat high energy food?			
Model 1 (main effects	model)									
Attitude	0.13 (0.02)	5.79	<.001	.29	0.22 (0.02)	11.86	<.001	.52		
Injunctive norms	0.06 (0.03)	2.02	.04	.10	0.08 (0.02)	3.50	.001	.15		
PBC	0.03 (0.04)	0.73	.46	.04	0.03 (0.04)	0.87	.38	.04		
Model 2 (main effect	model with descrip	tive norr	ns)	•						
Attitude	0.09 (0.02)	3.73	<.001	.20	0.20 (0.02)	9.94	<.001	.46		
Injunctive norms	0.03 (0.03)	1.04	.30	.05	0.07 (0.02)	2.83	.005	.12		
PBC	-0.01 (0.04)	-0.18	.86	01	0.01 (0.04)	0.28	.78	.01		
Descriptive norms	0.12 (0.03)	4.54	<.001	.25	0.06 (0.02)	2.90	.004	.14		
Model 3 (interactions	)			•						
Injunctive norms × Attitude	-0.004 (0.01)	-0.65	.51	03	0.01 (0.01)	2.61	.01	.11		
Descriptive norms × Attitude	-0.01 (0.01)	-1.12	.26	05	0.01 (0.004)	1.82	.07	.07		
Attitude × PBC	0.01 (0.01)	0.59	.56	.03	0.03 (0.01)	3.50	.001	.14		

Note. Sex and age were included as covariates. PBC = Perceived Behavioral Control; Bold = statistically significant (p < .05, p < .01)

coefficients of subjective versus descriptive norms indicated that there was a significant difference between subjective and descriptive norms (F = 5.93, df = 1, p = .02). Descriptive norms were more strongly associated with next week intentions than subjective norms.

The two-way interaction model (model 3) showed that neither subjective norms nor descriptive norms moderated the relation between attitude toward behavior and intention next week. Moreover, results indicated that attitude toward behavior did not moderate the relation between PBC and next week intentions.

#### 3.2. Intention to consume energy-dense food the next day

The result of the main effects model (model 1) showed that attitude toward behavior and subjective norms were associated with higher levels of 'intentions next day', whereas again PBC did not significantly explain intentions (see Table 2). In total, 34.1% of the variance in 'intentions next day' was explained (Adjusted  $R^2$ ). When we added descriptive norms to the main effect model (model 2), descriptive norms additionally predicted higher levels of intention. Subjective norms and attitude remained significant predictors, whereas the effect of PBC remained non-significant (Adjusted  $R^2 = 35.3\%$ ). In contrast to the other model (intention next week), results showed no significant difference between the standardized regression coefficients of subjective versus descriptive norms on next day intentions (F = 0.04, df = 1, p = .81).

The two-way interaction model (models 3) showed two significant interactions. First, subjective norms, but not descriptive norms, moderated the relation between attitude toward behavior and next day intentions. This significant interaction effect was probed by contrasting adolescents with higher subjective norms (+1 SD) versus adolescents with lower subjective norms (-1 SD) using simple slope analyses. As shown in Figure 2, for adolescents with higher subjective norms, the association between attitude to eat energy-dense food and next day intentions was stronger (B = 0.23, SE = 0.02, P < .001, P = .001



Figure 2. Simple slope analyses for the effect of attitudes on intention for adolescents with high injunctive norms (+1 SD), average injunctive norms (mean), and low injunctive norms (-1 SD) toward eating energy-dense foods.

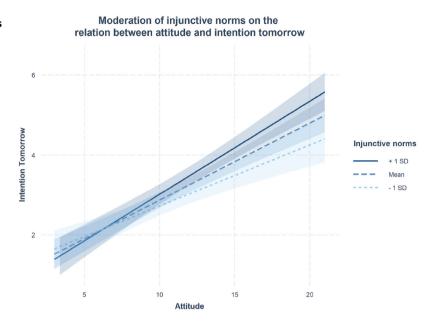
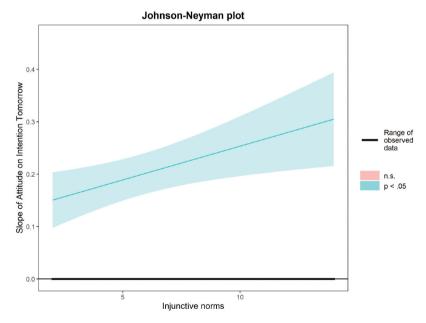


Figure 3. Johnson–Neyman plot showing the moderating effects of injunctive norms on the association between attitudes and intention. Note: Scale goes from minimum to maximum of injunctive norms (2–14).



Johnson-Neyman analyses confirmed that the significance and/or direction of effects did not change across all values of the attitude (i.e. the moderator; see Figure 3).

Second, results showed that attitude toward behavior moderated the relation between PBC and next day intentions. As shown in Figure 4, simple slope analyses indicated that for high attitude to eat energy-dense food, higher PBC was related to a higher intention to eat energy-dense food next day (B=0.16, SE=0.06, p=.004,  $\beta=.19$ ). For a lower attitude to eat energy-dense food, higher PBC was negatively, but not significantly, related to a higher intention to eat energy-dense foods next day (B=-0.07, SE=0.04, p=.09,  $\beta=-.09$ ). However, the more fine-grained analyses (Johnson-Neyman) indicated that this negative relation became significant for very low levels of attitude (Figure 5). Specifically, Johnson-Neyman analyses indicated that the



Figure 4. Simple slope analyses for the effect of PBC on intention for adolescents with a high attitude (+1 SD), average attitude (mean), and low attitude (-1 SD) toward eating energydense foods.

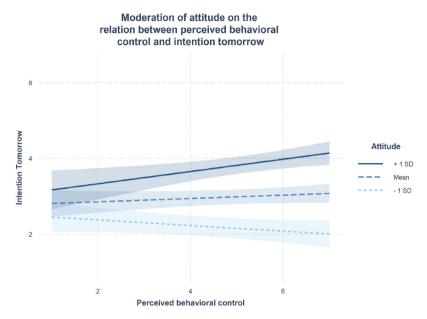
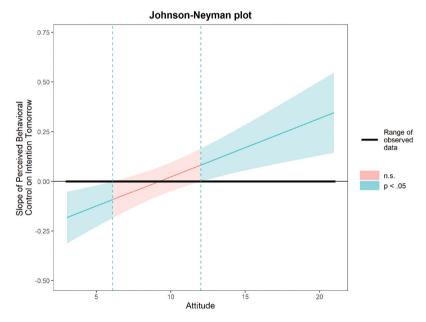


Figure 5. Johnson–Neyman plot showing the moderating effects of attitude on the association between PBC and intention.

Note: Scale goes from minimum to maximum of attitude (3–21).



regression coefficient (the influence of PBC on intention) became positive and significant for values of 12.03 and above of the attitudes variable, which included 32% of our sample, whereas it was non-significant for 51% of the sample (between 6.10 and 12.03). Moreover, the analyses showed that for low levels of attitude (<6.10), the relation between PBC and next day intentions became significantly negative (17% of the sample).

#### 4. Discussion

The present study tested an extended model of the TPB to increase insight into the intention to consume energy-dense food among Indonesian adolescents with higher SEP backgrounds (i.e. from private schools). Besides the three classical TPB determinants of intention (i.e. attitudes, subjective norms, and PBC), we also examined the role of descriptive norms and three interactions (subjective norm  $\times$  attitude, descriptive norm  $\times$  attitude, and attitude  $\times$  PBC). We performed



separate analyses for different time-frames captured by the two intention items (i.e. for intention next day versus next week). Most previous 'classical' TPB studies have asked about longer-term intentions (i.e. next week(s); Collins & Mullan, 2011; Gourlan et al., 2019). Our study extends those findings by also examining shorter-term intentions (i.e. next day). Overall, our results showed that both attitude and subjective norms were associated with the intention to consume energy-dense food. However, descriptive norms were more important for longer-term (next week) intentions than subjective norms (with the latter turning non-significant when descriptive norms were added to the model). For shorter-term (next day) intentions, descriptive and subjective norms were both significantly associated and did not significantly differ from each other. Moreover, significant interactions between TPB determinants were found only for the model predicting 'next day' intentions, but not for the classical 'next week' intentions. These findings will be further discussed below.

Although we found consistent links for both attitudes and subjective norms with intentions (i.e. next day or next week) to consume energy-dense food among our sample of Indonesian adolescents, we did not find any evidence for the direct link from PBC to intentions, neither next day nor next week. This is in contrast with our hypothesis and the findings of previous studies supporting the TPB (Collins & Mullan, 2011; McDermott et al., 2015; Zoellner et al., 2012). As such, our findings are more in line with the Theory of Reasoned Action (TRA), in which only links with attitudes and norms, but not control, are suggested (Ajzen & Fishbein, 2000). The TRA assumes that most behavior is under volitional control (i.e. that individuals can decide to perform a particular action without thinking about how easy or difficult the behavior is).

When descriptive norms were added to the model, subjective norms were no longer associated with the intention to consume energy-dense food in the next week. Descriptive norms explained 'next week' intentions better compared to subjective norms. This has been found more often in European and American studies (i.e. De la Haye et al., 2013), likely reflecting that 'what other people do' is more important than 'what people think you should do'. Notably, this was the exact opposite from what we had expected beforehand (i.e. stronger effects of subjective norms because of the more collectivistic Indonesian culture compared to more individualistic Western cultures). For the shorter-term intention to consume energy-dense food the next day, descriptive norms did not appear to be more important. So this finding was more in line with our expectations, although we did not find stronger effects for subjective norms as hypothesized. Moreover, attitudes seemed to be more strongly associated with the intention to consume energy-dense food the next day compared to the next week (i.e. the standardized regression estimate was more than twice as large [.20 versus .46], although we did not explicitly test these model differences).

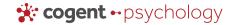
How can these seemingly differential findings for the shorter- versus longer-term intention models be explained? Though speculating, it might be that both the Indonesian collectivistic cultural influences (i.e. subjective norms) and individual preferences (i.e. attitudes) become more prominent if we ask about proximal next day intentions, because it asks about more concrete planning of food intake that, in turn, might trigger more concrete and distal individual values, beliefs, and preferences. In contrast, environmental behaviors of peers (i.e. descriptive norms) might have been triggered more by asking about next week intentions to consume energy-dense food, given that weekly energy-dense food consumption may have somewhat less negative connotations in Indonesian cultures, similar to overweight status (Noh et al., 2017; Syahrul et al., 2016). It may also be less concretely planned by individual beliefs and preferences, as it occurs on a more regular basis during the week. As such, the regular peer environment (and what other peers do) might be more important in explaining these more general intentions for the next week. Notably, we also found that the total explained variance of our intention 'next day intention model' was much higher compared to our 'next week intention model'. This may further underscore the importance of the shorter-term intention questions for Indonesian adolescents. These findings were in line with other studies suggesting that the TPB model is better able to predict intentions when using short-term follow-ups, although previous studies compared weekly with monthly periods mostly (Kothe & Mullan, 2015; McEachan et al., 2011).



Moreover, we also found only significant interactions between TPB constructs for our 'next day intention model'. In line with our hypotheses, we found evidence for two out of the three formulated interactions. Specifically, we found that attitudes were more strongly linked to the next day intention to consume energy-dense food in case of higher, compared to lower, subjective norms. We did not find this effect for descriptive peer norms. These results are in line with the traditional form of contingent-consistency hypothesis (Acock & DeFleur in Hukkelberg et al., 2014), suggesting that attitudes are more predictive of the intention to act if the social environment supports the behavior. One possible implication of this interaction finding might be that peer interventions aiming at direct and concrete shorter-term intentions to consume energy-dense foods among Indonesian adolescents who show positive attitude toward such foods can better focus on peer norms in terms of what you should or should not do rather than on behaviors of other peers.

The other significant interaction showed that the control or the ability to choose energy-dense food was positively associated with the intention to consume energy-dense food when adolescents experienced higher attitudes (i.e. more positive evaluation toward these kinds of foods), whereas for adolescents with very low attitudes, the association between PBC and intention was even negative. These findings support the argument that attitude should form a condition for PBC 'effects' (Eagly & Chaiken, 1993). It suggests that the perception of control over energy-dense food intake becomes important when adolescents like these foods (or not). If they do not like these foods and are in control, this might lead to lower intentions to consume such foods. However, if they like these foods but simultaneously experience lower control, they might experience lower intentions to consume such foods. Though speculating, this might suggest that PBC (e.g. showing adolescents that they have in fact less control than they think they have) may be a valuable intervention target for these Indonesian adolescents who have positive attitude toward energy-dense food consumption. However, we should mention the cross-sectional design of our study, which does not allow for any cause-effect statements. Future longitudinal and interventional research should further examine these links and interactions.

Some limitations of this study should be mentioned. First, we used self-report questionnaires, which might have increased the common method variance and artificially inflating associations (Podsakoff & Organ, 1986). Second, the present study only dealt with the prediction of intentions; it did not consider actual behavior. However, previous studies have shown that energy-dense food intentions are closely linked to actual unhealthy energy-dense behavior (Collins & Mullan, 2011; Weijzen et al., 2008). As such, the characteristic 'intention-behavior gap' often reported for more healthy behaviors probably does not play a role here. Third, the items to measure the TPB constructs were translated into the Indonesian language and slightly adapted. While we have used a common forward-backward translation procedure (English-Indonesian), more research is required to test the reliability and validity of these items. Specifically, we asked about both weekly and daily intentions, while previous studies mostly focused on weekly or monthly intentions. Although our daily intention measure impedes comparison with previous literature, it also provides eminent insights regarding the strength of associations when using daily measures that should be further examined. Moreover, we used time frames only for the intention items, not for the other TPB constructs given the Indonesian 'language constraints', as mentioned. Although this has been done in a similar way in other (Indonesian) studies (Ashidiqi & Arundina, 2017; Jan Mei et al., 2021) and a European study (Kruglanski et al., 2015), according to the original TPB standards, these time frames should be included in all TPB items (Ajzen, 2006). Fourth, we used only one item to measure PBC. As such, we cannot determine the internal consistency of our PBC measure and, thus, also know less about how consistently adolescents may have interpreted this construct. Finally, as mentioned, given the cross-sectional design of the current study, we cannot draw any conclusions regarding the direction of effects. For instance, energy-dense food intentions may also influence the amount of control adolescents perceive. Future prospective longitudinal research is needed to further examine the temporal order of the associations found.



#### 5. Implications for research and practice

The findings of the present study have some eminent theoretical and practical implications. Our findings fill a gap in the literature with regard to insights into the intentions to consume energy-dense food among a relatively large sample of obesity-vulnerable early adolescents from private schools in Indonesia. These insights may provide important implications for preventive intervention studies aimed at the restriction of energy-dense food consumption among Indonesian adolescents. Specifically, our findings suggest that preventive interventions may have more effects when focusing on subjective (i.e. what others think you should do) compared to descriptive norms (i.e. what others do). In addition, adolescents with positive attitudes toward energy-dense food might profit more from the awareness that they have less control over the choice for energy-dense food than they actually think they have. Future intervention research is needed to further examine these suggestions. Moreover, our present findings provide new and potentially eminent information about the importance of differential periods to assess intentions to consume energy-dense food (i.e. next week or next day). In terms of the amount of explained variance, our shorterterm intention next day findings are more in line with previous TPB studies assessing weekly intentions. Specifically, the overall explained variance of our shorter-term (next day) intention model was 35% (compared to only 15% for next week intention), whereas previous studies have mostly shown that TPB constructs explain about 40-49% of the variance in longer-term weekly intentions (McEachan et al., 2011). It would be interesting to see whether shorter-term intentions to consume energy-dense food the next day are also explaining intentions better among obesity-vulnerable groups (e.g. lower SEP) in European and American cultures. To conclude, our findings indicate that it may be important to focus on shorter-term proximal food intentions among Indonesian adolescents, providing potentially important implications for health researchers and practitioners developing nutrition and health interventions to address energy-dense food intake among obesity-vulnerable Indonesian adolescents.

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#### **Author's contributions**

JV, DM, and JL were responsible for the study design. JV and JL supervised the data collection. ES was responsible for the data collection, statistical analyses, and interpretation of the data in agreement with JV, JL, and DM. ES wrote the first version of the manuscript and edited by JV, JL, and DM. All authors participated in the revisions of the manuscript. All authors read and approved the final manuscript.

#### Disclosure statement

No potential conflict of interest was reported by the author(s).

#### Availability of data and materials

The datasets generated and analyzed during the current study are not publicly available due to agreements we have made concerning the exchange and use of our data but are available from the corresponding author [ES] on reasonable request.

#### Ethics approval and consent to participate

All procedures performed were in accordance with the ethical standards of Ethics Committee Social Science of Radboud University, Nijmegen, The Netherlands. Of the five schools that agreed to participate, three schools obtained consent forms from parents and students. The remaining two schools based on the school policy, informed the parents about this project (passive consent) and collected the signed consent forms from students only. The original (reference ECSS\_2019\_150) and amended (passive consent) procedures were approved by the Ethics Committee Social Science of Radboud University, Nijmegen, The Netherlands (ECSS-2019-115).

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