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# Acting to self-regulate unhealthy eating habits. An investigation into the effects of habit, hedonic hunger and self-regulation on sugar consumption from confectionery foods



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#### ABSTRACT

Many people are motivated to eat healthly but find it difficult to override established and less healthly habits. Habits by their nature are unconscious and cued by the environment, thus making them powerful determinants of behaviour. Limited research has explored the role of habit as a mediator between selfregulation and sugar consumption. This study investigated the relative importance of factors that support/impede the consumption of foods with high sugar content and the mediating effect of habit. The study sample was 500 Irish adult's representative of the population, Sugar consumption, habit, hedonic hunger, self-efficacy, perceived need, dietary planning and dietary self-monitoring were assessed using self-reported measures. A path analysis of the data was used to test the direct and indirect effects of the independent factors on estimated sugar consumption grams per day (g/d). In addition, the interaction effects of self-efficacy and dietary planning/self-monitoring on sugar consumption was examined using simple slope analysis. The results showed that habit had the largest effect in the model and was positively related to sugar consumption g/d (b = 12.09, p < 0.01). While the direct effect of self-efficacy on sugarconsumption g/d was significant (b = -5.25, p < 0.05), this effect was partially mediated by habit (-4.84, Bca CI -7.00, -3.00) and the direct effect of action control on sugar consumption (b = -1.30, p = 0.311) was fully mediated by habit (b = -2.42, Bca CI -3.93, -1.20), which indicates that strong unhealthy habits compete against self-efficacy and can reduce the potential benefits of dietary planning and self-monitoring. The simple slope analysis revealed that action control has a significant negative effect on sugar intake when self-efficacy is weak (b = -5.48, p = 0.01). The direct effect of hedonic hunger on confectionery sugar consumption (b = 1.38, p = 0.376) was fully mediated by habit (b = 5.92, Bca CI 4.20, 8.08) indicating that the desire to eat tempting food may overrides one's intended behaviour resulting in counter-intentional habits. It is apparent from the findings that a dual strategy of targeting behaviour and the underlying habits may be effective in improving dietary intake and self-regulation is likely to be sustainable only in an environment that facilitates healthy eating behaviour.

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#### 1. Introduction

The link between healthy eating and a healthy lifestyle has been extensively documented and public health institutions have widely disseminated information pertaining to healthy dietary guidelines (Adams et al., 2006; Flegal, Graubard, & Williamson, 2005; Food Safety Authority Ireland (FSAI), 2011). However, lack of adherence to dietary guidelines is a continuing concern across western

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countries (Health and Social Care Information centre (HSCIC), 2014; Irish Universities Nutrition Alliance (IUNA), 2011; Kerbs-Smith, Guenther, Subar, Kirkpatrick, & Dodd, 2010). Research shows that people are broadly aware of what constitutes a healthy diet and most people are motivated to make healthy food choices and consumption decisions (Brown et al., 2011; Food Safety Authority of Ireland (FASI), 2007; Nutrition and Health Foundation (NHF), 2005; The Department of Health and Human Services, US (HHS), 2008), which indicates that the problem of adherence to dietary guidelines is to a large extent impaired dietary volition rather than motivation to eat healthily.

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 Table 1

 Descriptive statistics, factor loadings and cronbach's alpha for predictor variables.

likely Eating Wher sugar I wou Eating think Eating am de I have consu Hedonic hunger Wher help o It's fr over i It see Just b excite If I se have Heari really Wher stop i I thin other I love avoid Some get ai	In I am hungry and I am in a rush, I am very y to eat sugary foods g sugary foods is something I do frequently In I am busy and I am hungry I am likely to eat ry foods uld find it difficult not to eat sugary foods g sugary foods is something I do without king g sugary foods is I start doing before I realise I loing it te to consciously make an effort not to do over	4.21 (1.93) 4.13 (1.91) 4.48 (1.89) 4.21(1.94) 4.02 (1.92) 3.78 (1.93)	0.82 0.81 0.79 0.77 0.75	3.83	54.72	0.86	Agreement scale 1 = Strongly disagree 7 = Strongly agree
Wher sugar I wou Eating think Eating am de I have consulted and I have have hear really where stop I I thin other I love avoid Some get and I would be compared to the consulted and I have consulted	n I am busy and I am hungry I am likely to eat ry foods uld find it difficult not to eat sugary foods ag sugary foods is something I do without king ig sugary foods is I start doing before I realise I loing it	4.48 (1.89) 4.21(1.94) 4.02 (1.92)	0.79 0.77				7 = Strongly agree
sugar I wou Eating think Eating am de I have consu Hedonic hunger  Wher help i It's fir over r It see Just b excite If I see have Heari really Wher stop i I thin other I love avoid Some get an	ry foods uld find it difficult not to eat sugary foods ag sugary foods is something I do without king ag sugary foods is I start doing before I realise I loing it	4.21(1.94) 4.02 (1.92)	0.77				
Eating think Eating am de I have consul Hedonic hunger Wher help of the It's from the	ng sugary foods is something I do without king ng sugary foods is I start doing before I realise I loing it	4.02 (1.92)					
think Eating am de I have consu Hedonic hunger  Wher help i It's fri over i It see Just b excite If I se have Heari really Wher stop i I thin other I love avoid Some get ai	king Ig sugary foods is I start doing before I realise I loing it		0.75				
am de I have consulted to the I have have the I have have the I have stop in I thin other I love avoid Some get all	loing it	3.78 (1.93)					
Hedonic hunger  Wher help is it's frought it	e to consciously make an effort not to do over		0.74				
help i It's fri over i It see Just b excite If I see have Heari really Wher stop i I thin other I love avoid Some get ai	ume sugary foods	4.76 (1.92)	0.42				
over a It see Just b excite If I se have Heari really Wher stop a I thin other I love avoid Some get ai	n I know a delicious food is available, I can't myself from thinking about having some	4.11 (1.81)	0.79	7.48	49.89	0.92	Agreement scale 1 = Strongly disagree
Just b excite If I se have Heari really Wher stop I I thin other I I ove avoid Some get ai	rightening to think of the power that food has me	3.01 (1.79)	0.78			7 = Strongly agree	
excite If I se have Heari really Wher stop i I thin other I love avoid Some get ai	ems like I have food on my mind a lot	3.01 (1.71)	0.77				
have Heari really Wher stop I I thin other I love avoid Some get al	before I taste a favourite food, I feel intense ement	3.33 (1.74)	0.75				
really Wher stop i I thin other I love avoid Some get ai	ee or smell a food I like, I get a powerful urge to some	4.15 (1.75)	0.74				
stop i I thin other I love avoid Some get ai	ing someone describe a great meal makes me y want to eat something	3.61 (1.80)	0.74				
other I love avoid Some get ai	n I am around a fatting food I love, it's hard to myself from at least tasting it	4.22 (1.80)	0.73				
avoid Some get ai	nk that I enjoy eating a lot more than most r people	3.17 (1.67)	0.72				
get an	e the taste of certain foods so much that I can't I eating them even if they are bad for me	3.98 (1.86)	0.70				
	n urge to eat out of the blue	3.43 (1.77)	0.69				
almos	more pleasure from eating then I do from est anything else	3.09 (1.72)	0.68				
not p	I myself thinking about food even when I am ohysically hungry re I eat a favourite food my mouth starts to	3.59 (1.82) 3.61 (1.79)	0.64				
water	•	4.56 (1.65)	0.62				
it tass		4.53 (1.65)	0.51				
delici	ious as possible	, ,		5.03	22.55	0.03	For any souls
dietary monitoring) I felt	plans in place to avoid sugary foods whenever bored	3.19 (1.80)	0.88	5.03	33.55	0.93	Frequency scale 1 = Never
I felt	plans in place to avoid sugary foods whenever in bad mood plans in place to avoid sugary foods whenever	2.97 (1.75)	0.84				7 = Always
I felt	tempted to avoid sugary foods whenever tempted tehed taken to avoid sugary foods whenever tempted to a carefully that I was not exceeding my	3.43 (1.82) 3.71 (1.83)	0.86 0.82				
desire	red intake of sugary foods uld plan ahead how often I could eat sugary	3.09 (1.73)	0.82				
foods	s in a day d attention to my sugar intake in order to	3.96 (1.84)	0.78				
ensur I mon	a attention to my sugar intake in order to	5.55 (1.01)					

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