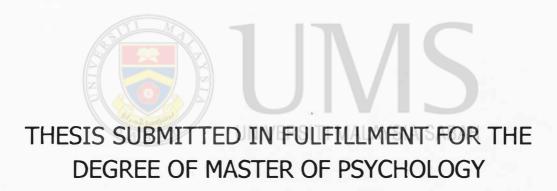
THE INFLUENCE OF BODY IMAGE SATISFACTION, BODY MASS INDEX (BMI), PERSONALITY TRAITS, AND MATERNAL PARENTING STYLES ON PARTIAL EATING DISORDER

CHANG CHIRN HUAH



SCHOOL OF PSYCHOLOGY AND SOCIAL WORK UNIVERSITY MALAYSIA SABAH 2013

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PERSONALITY TRAITS AND MATERNAL PARENTING STYLES ON PARTIAL

EATING DISORDER

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16th August 2012

Chang Chirn Huah PR20108035



CERTIFICATION

NAME:

CHANG CHIRN HUAH

MATRIC NO.: PR20108035

TITLE:

THE INFLUENCE OF BODY IMAGE SATISFACTION, BODY

MASS INDEX (BMI), PERSONALITY TRAITS, AND MATERNAL

PARENTING STYLES ON PARTIAL EATING DISORDER

DEGREE:

MASTER OF PSYCHOLOGY

VIVA DATE:

15 JANUARY 2013

DECLARED BY

1. SUPERVISOR

Associate Professor Dr. Murnizam Hj. Halik

Signature

2. **CO-SUPERVISOR**

Dr. Rejani TG

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ABSTRACT

THE INFLUENCE OF BODY IMAGE SATISFACTION, BODY MASS INDEX (BMI), PERSONALITY TRAITS, AND MATERNAL PARENTING STYLES ON PARTIAL EATING DISORDER

The main purpose of this study was to examined the differences of body image satisfaction and body mass index among partial eating disorder group (PEDG) and non-partial eating disorder group (NPEDG). This study was also examined the effect of body image satisfaction and body mass index on partial eating disorder, and the moderating effect of personality traits and maternal parenting styles in the relationship between body image satisfaction and partial eating disorder, and in the relationship between body mass index and partial eating disorder. Screening was did on 410 students aged 11 to 15 years old around Kota Kinabalu, Sabah, and 184 students were chosen into PEDG and NPEDG (92 PEDG and 92 NPEDG). Eating Disorder Assessment Test (EDAT) was used for screening, while Children Eating Attitudes Test (ChEAT), Body Esteem Scale (BES), Revised Junior Eysenck Personality Questionnaire - Short form (JEPQR-S), and Parenting Style Questionnaire was used in this study. The result had showed that body image satisfaction and body mass index were significantly lower in PEDG. Body image satisfaction had greater impact on partial eating disorder. Besides, study had also found that extraversion, neuroticism, and psychoticism personality traits, and maternal authoritative, authoritarian, and permissive parenting styles were not significant moderators in the relationship between body image satisfaction and partial eating disorder, and in the relationship between body mass index and partial eating disorder. This study was contributed knowledge to doctors, clinical psychologists, school counsellors, future researchers, and parents.

ABSTRAK

Kajian ini bertujuan untuk mengkaji perbezaan kepuasan imej badan dan indek jisim badan antara kumpulan kecelaruan makan separa (PEDG) dan kumpulan bukan kecelaruan makan separa (NPEDG). Kajian ini juga bertujuan untuk mengkaji kesan kepuasan imej badan dan indek jisim badan ke atas kecelaruan makan separa, dan kesan moderator trait personaliti dan gaya keibubapaan ibu dalam hubungan antara kepuasan imej badan dan kecelaruan makan separa, dan hubungan antara indek jisim badan dan kecelaruan makan separa. Saringan telah dijalankan terhadap 410 pelajar yang berumur 11 hingga 15 tahun di sekitar Kota Kinabalu, Sabah, dan 184 pelajar telah dipilih sebagai PEDG dan NPEDG (92 PEDG dan 92 NPEDG). Eating Disorder Assessment Test (EDAT) telah digunakan dalam saringan, dan Children Eating Attitudes Test (ChEAT), Body Esteem Scale (BES), Revised Junior Eysenck Personality Questionnaire - Short form (JEPOR-S), dan Parenting Style Questionnaire telah digunakan dalam kajian. Hasil kajian menunjukkan kepuasan imej badan dan indek jisim badan adalah bersignifikan dan lebih rendah dalam PEDG. Kepuasan imej badan memberikan kesan yang lebih tinggi kepada kecelaruan makan separa. Selain itu, hasil kajian juga menunjukkan trait personaliti ekstraversi, neurotisma, dan psikotisma, dan juga gaya keibubapaan autoritarian, autoritatif, dan permisif ibu bukan moderator yang signifikan dalam hubungan antara kepuasan imej badan dan kecelaruan makan separa, dan juga hubungan antara indek jisim badan dan kecelaruan makan separa. Kajian ini telah menyumbang ilmu pengetahuan kepada doktor, psikologi klinikal, kaunselor sekokah, bakal penyelidik, dan ibubapa.

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LIST OF ABBREVIATION

DSM-IV Diagnostic and Statistical Manual of Mental Disorders - Fourth Edition

ICD-10 International Classification of Disease

PEDG Partial Eating Disorder Group

NPEDG Non-Partial Eating Disorder Group

BMI Body Mass Index

BES Body Esteem Scale

ChEAT Children Eating Attitude Test

EDAT Eating Disorder Assessment Test

S.R.K. Sekolah Rendah Kebangsaan

S.J.K. (c) Sekolah Jenis Kebangsaan (Cina)

S.M.K Sekolah Menengah Kebangsaan

SPSS Statistical Package for Social Science



LIST OF SYMBOLS

Bigger than > Smaller than < ≥ Bigger or same as Null hypothesis Ho Frequency f Percentage % Number of participant n mean $\bar{\chi}$ s.d. Standard deviation df Degree of Freedom t t-value Sig Significance R^2 R square ΔR^2 R square change Sig. Δ F Significant of R square change β Beta value significant value p significant at level p < .01_AYSIA SABAH Significant at level p < .05**

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PERPUSIANAAN SABAR

CHAPTER I

INTRODUCTION

1.1 Background

Eating disorder is one of the syndromes classified in Diagnostic and Statistical Manual of Mental Disorders (DSM) and International Classification of Diseases (ICD). This disorder may onset in different stages of life, which included adult, adolescent, and even during childhood. Generally, the common symptoms of patients with eating disorder faced were restricting eating or binge eating. Even though studies has proven that female have higher prevalence of eating disorders, but research also found that male showing a smaller but steady number symptoms of eating disorder (Eaugh-Bryant & Lask, 2007). Besides, the percentage of eating disorder is getting higher in recent years.

Eating disorders are developing in worldwide, and this may lead to mortality. The disorders are not only developing in Western countries, but also occurred in Asia countries such as Japan, Republic of Korea, Hong Kong, Singapore, as well as Malaysia. Previous studies have found that there were 10% to 22.3% of the adolescents in Malaysia are high risk in eating disorder (Ng, 2007, Soo, 2008, & Foo, 2011). There were few researchers of eating disorder have been studied in Malaysia revealed that there are increasing of awareness among Malaysians in the issues of eating disorders.

1.1.1 Eating Disorder

Eating disorder is defined as severe disorganized of eating behaviours. It can be characterised into two major specific categories, which are Anorexia Nervosa and Bulimia Nervosa. Anorexia Nervosa is defined as a person who refused to eat, and refused to maintain a minimal body weight even though he/she is underweight. People who are suffering from Anorexia Nervosa have a severe disturbance in the perception of their body shape and body image. On the other hand, Bulimia Nervosa is defined as out of control eating episodes, or binge eating and following

by inappropriate compensatory behaviours such as self-induced vomiting, misuse of laxatives, diuretics or other medications, fasting, or excessive exercise (DSM-IV, 2000).

There are two guidelines can be used to diagnosed eating disorders, which is Diagnostic and Statistical Manual of Mental Disorders – Forth Edition (DSM-IV-TR) (2002) and International Classification of Diseases (ICD-10) (1992). According to DSM-IV-TR (2002) which published by American Psychiatric Association, eating disorders included three criteria, which are listed as below:

307.1 Anorexia Nervosa

507.51 Bulimia Nervosa

307.50 Eating Disorder Not Otherwise Specified

International Statistical Classification of Diseases and Related Health Problems (ICD-10) (1992) developed by World Health Organization (WHO) has categorized eating disorders under section F50, which is under category of behavioural syndromes associated with psychological and physical factors. There are eight sub-criteria of eating disorders, which are:

F50.0 Anorexia Nervosa

F50.1 Atypical Anorexia Nervosa UNIVERSITI MALAYSIA SABAH

F50.2 Bulimia Nervosa

F50.3 Atypical Bulimia Nervosa

F50.4 Overeating associated with other psychological disturbances

F50.5 Vomiting associated with other psychological disturbances

F50.8 Other Eating Disorders

F50.9 Eating Disorder, unspecified

There are several diagnostic criteria for Anorexia Nervosa and Bulimia Nervosa in Diagnostic and Statistical Manual of Mental Disorders – Forth Edition (DSM-IV-TR) (2002) and International Classification of Diseases (ICD-10) (1992). The diagnostic criteria shared most of the similarities in both DSM-IV-TR and ICD-10. The table 1.1 has shown the diagnostic criteria of Anorexia Nervosa, whereas

table 1.2 has shown the diagnostic criteria for Bulimia Nervosa, in DSM-IV-TR and ICD-10.

Table 1.1: The Diagnostic Criteria for Anorexia Nervosa in Diagnostic and Statistical Manual of Mental Disorders – Forth Edition (DSM-IV-TR) and International Classification of Diseases (ICD-10)

DSM-IV-TR		ICD-10	
Diagnostic criteria for 307.1 Anorexia		F50.0 Anorexia Nervosa	
Ne	rvosa:	A.	Weight loss or lack of gain weight,
Α.	Refusal to maintain body weight at		lead to a body weight at least 15%
	or above a minimally normal weight		below to the normal or expected
	for age and height, which is less		weight for age and height.
	than 85% from normal body weight.	B.	Self-induced weight loss by
В.	Extremely fear of gaining weight or		avoidance of "fattening foods".
	becoming fat, even though	C.	Self-perception of being too fat, with
	underweight.		an intrusive fear of fat, which lead to
C.	Experienced self-evaluation		self-imposed low weight threshold.
	disturbances in body weight and	D.	Widespread endocrine disorder
	shape, denial the seriousness of low		involving the hypothalamic-pituitary-
	body weight.	RS	gonadal axis. In females, it is
D.	Undergone amenorrhea, which is the		amenorrhoea and in males, it is a
	absence of at least three consecutive		loss of sexual interest and potency.
	menstrual cycles in postmenarcheal		
	females.		

Table 1.2: The Diagnostic Criteria for Bulimia Nervosa in Diagnostic and Statistical Manual of Mental Disorders – Forth Edition (DSM-IV-TR) and International Classification of Diseases (ICD-10)

DS	SM-IV-TR	ICI	D-10
Di	agnostic criteria for 307.51 Bulimia	F50).2 Bulimia Nervosa
Ne	ervosa:	A.	Repeated episodes of overeating (at
A.	Repeated episodes of binge eating,		least two times per week over a
	and the episodes of binge eating is		period of three months), in which a
	characterized by:		large amounts of food are
	(1) Eating in a short period of time		consumed in short periods of time.
	and the amount is definitely	В.	Continuously preoccupation with
	larger than usual.		eating and a strong desire or a
	(2) A sense of lack of control over		sense of compulsion to eat
	eating during the episode.		(craving).
В.	Repeated inappropriate	C.	Attempts to counteract the fattening
	compensatory behaviour, such as		effects of food by self-induced
	self-induced vomiting, misuse of		vomiting, self-induced purging,
	medicines, fasting, and excessive		alternating periods of starvation, or
	exercise to prevent weight gain.	DCI	use of drugs.
C.	The binge eating and inappropriate	D.	Self-perception of being too fat with
	compensatory behaviour are both		an intrusive fear of fatness. This
	occurred on average at least twice a		usually will leading to underweight.
	week for three months.		the state of the s
D.	Self-evaluation is overly influenced		And the second
	by body weight and shape.		
E.	The disturbance does not occur		8 6 - 9 -
	exclusively during episodes of		the second second second
	Anorexia Nervosa.		

1.1.2 Partial Eating Disorder

Besides clinical eating disorders, partial eating disorder is another type of eating disorder. Partial Eating Disorder is originally termed by sub-clinical eating disorder, which is sub-clinical Anorexia Nervosa and sub-clinical Bulimia Nervosa (Button &

Whitehouse, 1981; Stein & Luria et al., 1999). Basically, patients who have Partial Eating Disorder showed a variety of maladaptive attitudes and behaviours of eating, body weight, dieting and physical appearance, but these behaviours do not reach the severity of clinical forms of anorexia nervosa and bulimia nervosa (Stein & Luria et al., 1999).

Woodside and Garfinkel et al. (2001) explained that partial syndrome of anorexia nervosa must meet the criteria of low body weight, and meet another one remaining criteria, which are weight loss, body image concern, concerns about weight loss, or for women, amenorrhea. On the other hand, partial syndrome of bulimia nervosa required recurrent episodes of binge eating, and meeting one of other criteria, which are having weight and shape concerns, feeling a lack of control over their eating behaviour, and having one or more compensatory behaviours. Patton (1999) et al. and Patton et al. (2008) also described Partial Eating Disorders as meeting two criteria of either anorexia nervosa or bulimia nervosa according to Diagnostic and Statistical Manual of Mental Disorders – Forth Edition (DSM-IV-TR).

Stice, Marti, Shaw, and Jaconis (2009) have identified several criteria to define partial anorexia nervosa and partial bulimia nervosa by referred to Diagnostic and Statistical Manual of Mental Disorders — Forth Edition (DSM-IV-TR). According to them, individuals who (a) having the criteria of low body weight and only one of other three anorexia nervosa symptoms; (b) having all anorexia nervosa symptoms except amenorrhea; (c) having all anorexia nervosa symptoms except low body weight; or (d) having only two out of the four anorexia nervosa symptoms can be diagnosed as partial anorexia nervosa.

On the other hand, partial bulimia nervosa are those who (a) having twice weekly binge eating for at least three months and only one other bulimia nervosa symptoms; (b) having all bulimia nervosa symptoms except binge eating; (c) having all of the bulimia nervosa except binge eating and the compensatory behaviours occurred less than twice a week; (d) having only compensatory behaviours; (e) having only binge eating, or (f) having only two out of five bulimia nervosa symptoms (Stice, Marti, Shaw, & Jaconis, 2009).

Meanwhile, some researchers suggested patients who meet the criteria for eating disorder not otherwise specified (EDNOS), atypical anorexia nervosa and atypical bulimia nervosa could be described as partial eating disorders (Chamay-Weber, Narring, & Michaud, 2005). In their research, they use sub-threshold eating disorders and sub-clinical eating disorders as other key words. Stice, Marti, Shaw, and Jaconis (2009) also stated that binge eating disorder and purging disorder have been classified as partial bulimia nervosa.

Partial eating disorders have potential to be developed to clinical symptoms of eating disorder. Patton and Johnson-Sabine et al. (1990) found that 11% of the adolescent girls who are diagnosed with partial eating disorders showed onset of bulimia nervosa over a one year follow up in their research. Stein and Luria et al. also stated that there are at least 15% of the individuals with partial eating disorders progress to full syndrome of eating disorders within several years.

1.1.3 Prevalence of Eating Disorders

Eating disorder is very common nowadays. According to Diagnostic and Statistical Manual of Mental Disorders – Forth Edition (DSM-IV-TR, 2000), the lifetime prevalence of Anorexia Nervosa for female is found to be around 0.5 percent, and male is around one-tenth from female. On the other hand, for Bulimia Nervosa, lifetime prevalence for female is approximately one to three percent, and male are also one-tenth from females.

Many researchers have showed that eating disorders are more common in females. According to Woodside et al. (2001), the prevalence for both full and partial syndrome of eating disorders is higher in female. Generally, the full syndrome of eating disorder for male is 0.29%, while female is 2.12%, which is approximately nine times higher than male. On the other hand, Partial syndrome of eating disorder in male is 1.71% and female is 2.85%. When the percentage is counted by each group, male in partial syndrome of Anorexia Nervosa is 0.76% and female is 1.15%. While for the partial Bulimia Nervosa, male is 0.95% and female is 1.70%.