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Jennifer J. Thomas, PhD

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### EATING DISORDERS

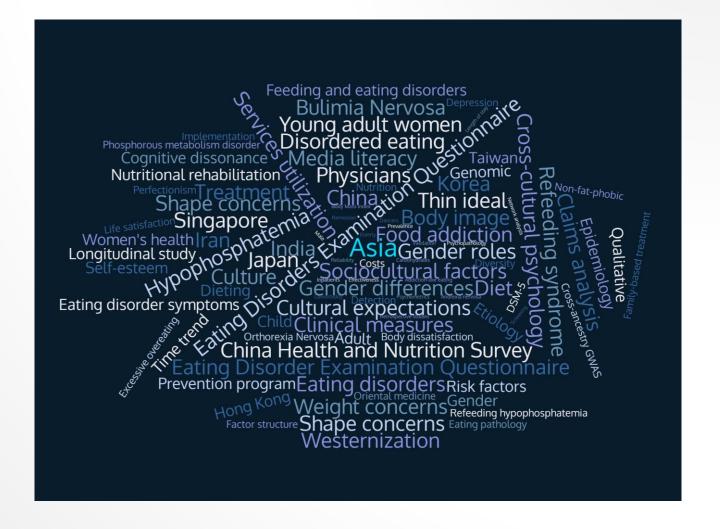
### Special issue on Asia

January & February 2021

### **Key Findings**

- Eating disorders are highly prevalent in Asia and their prevalence is increasing.
- Validated assessment tools are available in many Asian languages.
- Eating disorders often go undetected in clinical settings. The majority of individuals do not receive treatment.
- Psychosocial treatments that are evidence-based outside of Asia may require cultural adaptations for widespread implementation.

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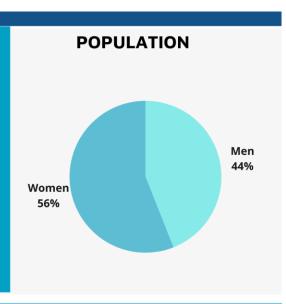


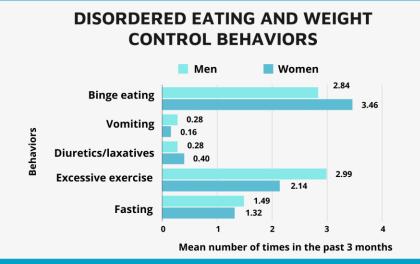
### Sook Ning Chua, PhD

Clinical Psychologist and Senior Research
Fellow at Nanyang Technological University, Singapore.
Founder of *Relate Malaysia*, a nonprofit mental health
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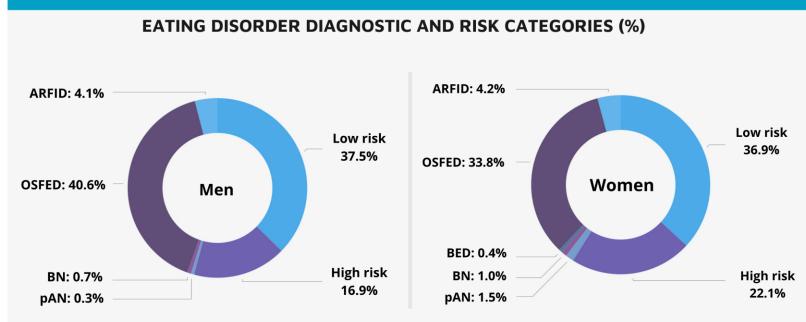
### NEARLY HALF OF ADULTS IN SINGAPORE ARE SYMPTOMATIC FOR AN EATING DISORDER, YET FEW ARE TREATED.

A community sample of 797 adults (ages 21–77 years) in Singapore were screened online for an eating disorder using the Stanford-Washington University Eating Disorder screen in June 2020.





Men and women reported a range of disordered eating and weight control behaviors in the past 3 months.



#### 45.7% men and 41.2% women were symptomatic for an eating disorder.

Abbreviations: ARFID, avoidant/restrictive food intake disorder; BN, bulimia nervosa; BED, binge-eating disorder; OSFED: Other specified feeding or eating disorders; pAN, possible anorexia nervosa.

#### TREATMENT STATUS OF ADULTS WHO SCREENED POSITIVE FOR AN EATING DISORDER



Chua, S. N., Fitzsimmons-Craft, E. E., Austin, S. B., Wilfley, D. E., & Taylor, C. B. (2021). Estimated prevalence of eating disorders in Singapore. *International Journal of Eating Disorders*.







Youl-Ri Kim, MD, PhD

Professor, Department of Neuroscience; Lab Lead, Institute of Eating Disorders and Mental Health, Inje University, Kimhae, South Korea.



# A school-based eating disorder prevention program (Me, You & Us) for young adolescents in Korea: A 3-year follow-up study\*

### **Objective**

➤ The study aimed to examine the feasibility and long-term effects of a school-based eating disorder prevention program for young adolescents in Korea.



### School-based body image prevention program

### : Me, You & Us

- > Universal intervention for students in Y8 & Y9
- ➤ 6 lessons delivered by school teachers
- > Focusing on:
  - Media Literacy
  - Fat Talking
  - Personal Strengths
- ➤ 3 year follow-up of 12 year olds after intervention (n=133) then, compared to control students (n=180) in Korea

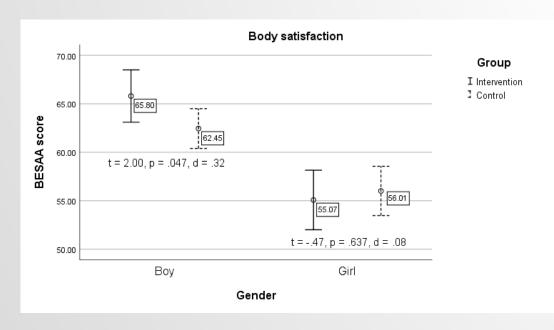
<sup>\*</sup>Kwag, KH, Han SW, Cho J-Y, Ko M, Park EJ, & Kim Y-R (2021). International Journal of Eating Disorders

EATING DISORDERS

# A school-based eating disorder prevention program (Me, You & Us) for young adolescents in Korea: A 3-year follow-up study\*

### Results

At 3 year follow-up, higher body satisfaction in the intervention group than in the control group in boys, but no difference between groups in girls.



#### **Conclusions**

- Environmental factors are important risk factors for BN and prevention can target risk factors (fat talk, media literacy, low esteem).
- The cultural adaptation, feasibility, and long-term effects of a school-based ED prevention program for young adolescents in South Korea were examined.
- While low-intensity interventions may be useful for boys, girls may require a higher-intensity approach.

<sup>\*</sup>Kwag, KH, Han SW, Cho J-Y, Ko M, Park EJ, & Kim Y-R (2021). International Journal of Eating Disorders





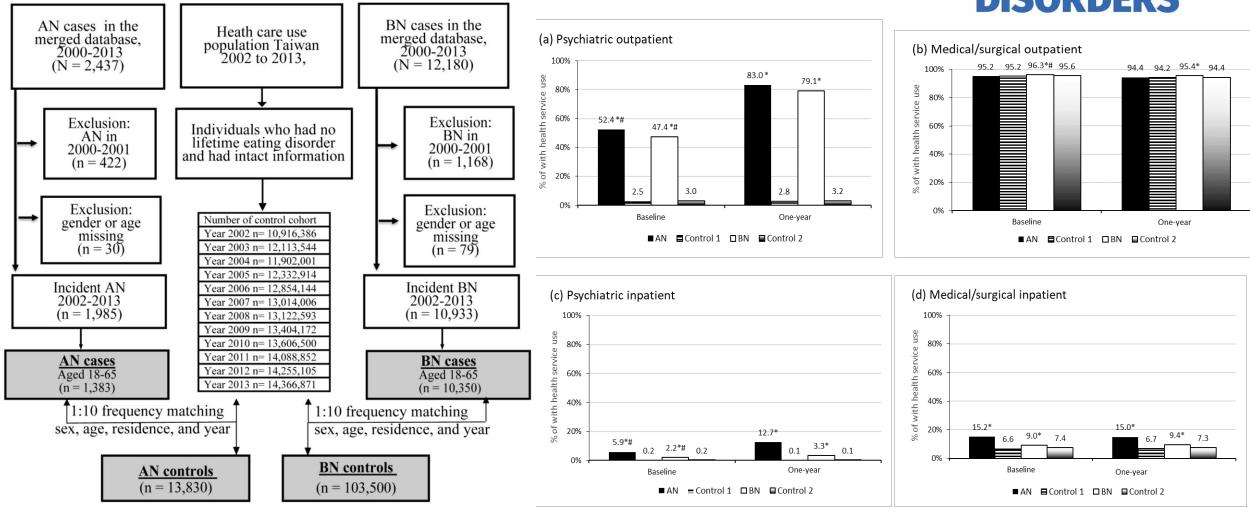


Mei-Chi Tseng, MD, PhD

Director, Department of Psychiatry at Shuang Ho Hospital, New Taipei City, Taiwan; Adjunct Associate Professor of Psychiatry in the Medical College, National Taiwan University.

### Healthcare use and costs of adults with AN and BN in Taiwan\*





Flow diagram of selection of the study population.

Figures: Percentage of patients with utilization, by different medical services. \*p < .001 versus control; #p < .001 versus 1-year follow-up

<sup>\*</sup>Tseng, Tu, & Chang (2021), International Journal of Eating Disorders

International Journal of

### EATING DISORDERS

- ➤ Both individuals with AN and BN had significantly elevated healthcare utilization and costs compared to controls during the baseline and one-year period after diagnosis.
- Comorbidity of depressive disorder (DD) and older age significantly increased healthcare costs among both individuals with AN and BN.
- ➤ Men with BN had significantly elevated costs compared to women.

### Effects of sex, age, and DD comorbidity on mean total cost at 1-year

		N Total cost		Univariate		Multivariate <sup>1</sup>		Multivariate <sup>2</sup>		
			Mean	SD	Coefficient	95% CI	Coefficient	95% CI	Coefficient	95% CI
	N.	1383								
1	Sex									
	Men	145	1902	(2749)	1.07	(0.86-1.35)	1.04	(0.83-1.29)	0.97	(0.78-1.20)
	Women	1238	1770	(3806)	1.00		1.00		1.00	
ļ	Age (years) 18–29	966	1465	(3633)	1.00		1.00		1.00	
	30–39	280	2524	(3723)	1.72	(1.45-2.04)	1.50	(1.26-1.78)	1.33	(1.12-1.58)
	40–65	137	2516	(3910)	1.72	(1.36-2.16)	1.46	(1.15-1.84)	1.20	(0.95-1.51)
(	Comorbidity									
	No DD	539	1319	(3551)	1.00		1.00		1.00	
	DD	844	2512	(3735)	1.90	(1.66-2.19)	1.72	(1.49-1.99)	1.75	(1.52-2.02)
E	BN	10350								
S	Sex									
	Men	661	1592	(6606)	1.74	(1.58-1.91)	1.73	(1.58-1.90)	1.66	(1.51-1.81)
	Women	9689	917	(1797)	1.00		1.00		1.00	
•	\ge (years) 18–29	6041	768	(1641)	1.00		1.00		1.00	
	30–39	2769	1042	(1800)	1.36	(1.29-1.43)	1.24	(1.18-1.31)	1.22	(1.16-1.28)
	40–65	1540	1567	(4722)	2.04	(1.91-2.18)	1.81	(1.70-1.94)	1.57	(1.47-1.68)
(	Comorbidity									
	No DD	6600	714	(2455)	1.00		1.00		1.00	
	DD	3750	1394	(2279)	1.95	(1.86-2.05)	1.90	(1.82-2.00)	1.85	(1.76-1.93)







### Jue Chen, MD, PhD

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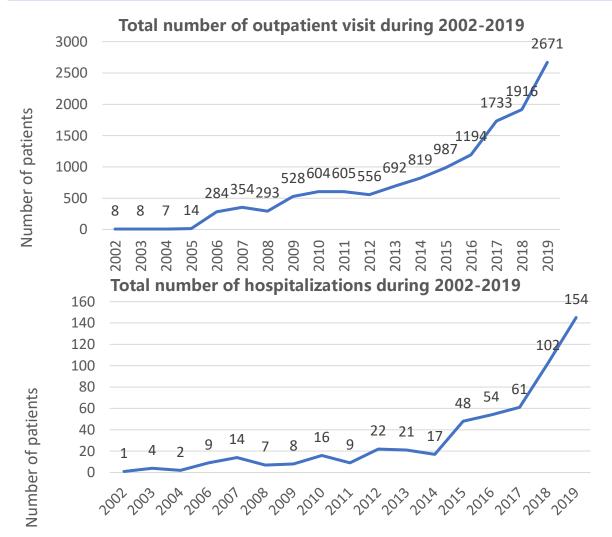
### The introduction of treatment and the cultural adaptability of western psychotherapies for eating disorders in China

Jue Chen\* MD, PhD | Lei Guo MM | Lian Gu MPsy | Hui Han MPsy

#### The history of eating disorders treatment in China

- The prevalence of ED in China has shown an increasing trend. The number of ED patients in mental health centers in China increased significantly.
- The treatment and research situation of ED in China has been gradually improved in the last 15 years.
- In 2015, the Chinese Medical Association promulgated the first edition of the "Chinese Guidelines for the Prevention and Treatment of Eating Disorders."
- In 2018, the Chinese Medical Association established the first national ED academic organization, the "Eating Disorders Academic Group," with 41 experts from different disciplines.

#### The number of ED patients increasing in SMHC







### The introduction of treatment and the cultural adaptability of western psychotherapies for eating disorders in China

#### **Treatment Mode**

#### Outpatient

- Most Chinese mental health centers can only provide follow-up visits by psychiatrists.
- Most patients with ED cannot have access to psychotherapy in the outpatient clinic.
- Insufficient clinical psychotherapists

### Inpatient (recommended)

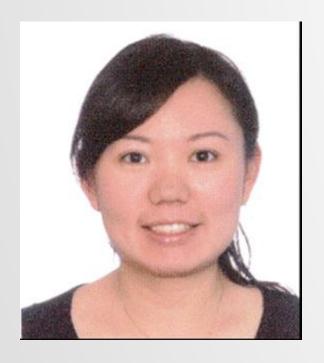
- Psychiatric hospitals
  - Locked-door management mode (Beijing)
    - Nutritional therapy (NT) and drug therapy (DT)
  - Open-door management mode (Shanghai)
    - Psychotherapy and caregiver support group, besides NT and DT
- General hospitals
  - Patients with physical danger are recommended firstly

#### **Treatment Methods**

- Nutrition treatment is the basic treatment.
- Medication serves as symptomatic treatment firstly.
  - Antidepressants of SSRIs are commonly used
  - Atypical antipsychotics used when patients have severe body image disorder, fat phobia, etc.
- Psychotherapy (partially) suitable for Chinese culture,
   RCT needs to be developed.
  - Family-based intervention model
    - Cooperate with caregivers and the healthy part of patients to fight against "ED"
  - Family-based treatment (FBT)
    - Multi-family FBT support group could be developed as the basic treatment of ED patients
  - Cognitive behavioral therapy (CBT)
    - Group CBT (G-CBT) is now adopted in both outpatient clinic and inpatient unit
  - Dialectical behavioral therapy (DBT)
    - New, but a powerful tool
    - Group DBT (G-DBT) skill training is carried out







Elaine Chew, MD, PhD

Senior Consultant in Adolescent Medicine at KK Women's and Children's Hospital (KKH), Singapore; Adjunct Assistant Professor at Duke-National University of Singapore.

### EATING DISORDERS

# Implementation of family-based treatment for Asian adolescents with anorexia nervosa: A consecutive cohort examination of outcomes\*

### **Objective**

- Describes the implementation of family-based treatment (FBT) in a multidisciplinary eating disorder program within a tertiary pediatric hospital
- Clinical outcomes of adolescents with anorexia nervosa (AN) treated with FBT versus treatment as usual (TAU)

#### **Methods**

- Retrospective consecutive cohort study of 147 adolescents with AN
- 82 adolescents in TAU from 2010 to 2013 compared to 65 adolescents in FBT from 2014-2017
- ➤ Variables associated with weight restoration were analysed between the two groups at 6-, 12- and 24-month timepoints

<sup>\*</sup>Chew, Kelly, Tay, Baeg, Khaider, Oh, Rajasegaran, Saffari, & Davis (2021). International Journal of Eating Disorders

### EATING DISORDERS

# Implementation of family-based treatment for Asian adolescents with anorexia nervosa: A consecutive cohort examination of outcomes

### **Key findings**

- ➤ Mean age was 14.2 (SD=1.5) years and 93% were female. Mean presenting percent median BMI was 74.0 (SD=7.8) and average illness duration was 7.7 (SD=6.1)months.
- ➤ Weight restoration rates and % median BMI in the FBT group were significantly higher than in the TAU group at 6-, 12-, and 24-month timepoints.
- ➤ Time to weight restoration was shorter for patients on FBT versus TAU.
- Within the FBT group, those that completed ≥9 FBT sessions had significantly higher rates of weight restoration at 12 months.

### **Implications**

- FBT can be effectively implemented in a multidisciplinary eating disorder program managing Asian adolescents with AN.
- FBT achieved faster and improved rates of weight restoration than TAU.
- More research is needed to understand the predictors and moderators of remission using FBT in Asian adolescents with AN.







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### **EDE-Q-J: Factor structure**

Original version (4 factors)
Shape Concern
Weight Concern
Eating Concern
Restraint

Japanese version (3 factors)
Restraint and Eating Concern
Dissatisfaction with shape and weight
Self-esteem based on shape and weight

