

EATING DISORDERS: HIDING IN PLAIN SIGHT

Tuesday, March 19, 2019
12:00 – 1:00 PM

Martin Fisher, MD
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Adolescent Medicine at Cohen
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Mental Health
*Neuroscience External Affairs,
Janssen R&D*

~with~

Dr. Mark Cunningham-Hill, Medical Director, *Northeast Business Group on Health*

Webinar Procedures

- All lines will be muted
- Please submit all questions using the “Q&A” dialog box
- Email Diane Engel at dengel@nebgh.org with any issues during this webinar

A screenshot of a web browser window titled "Q&A". The main area of the window is white and contains the text "You have no question." in a light gray font. At the bottom of the window, there is a text input field with the placeholder text "What h". Below the input field, there is a checkbox labeled "Send Anonymously" and a blue button labeled "Send".

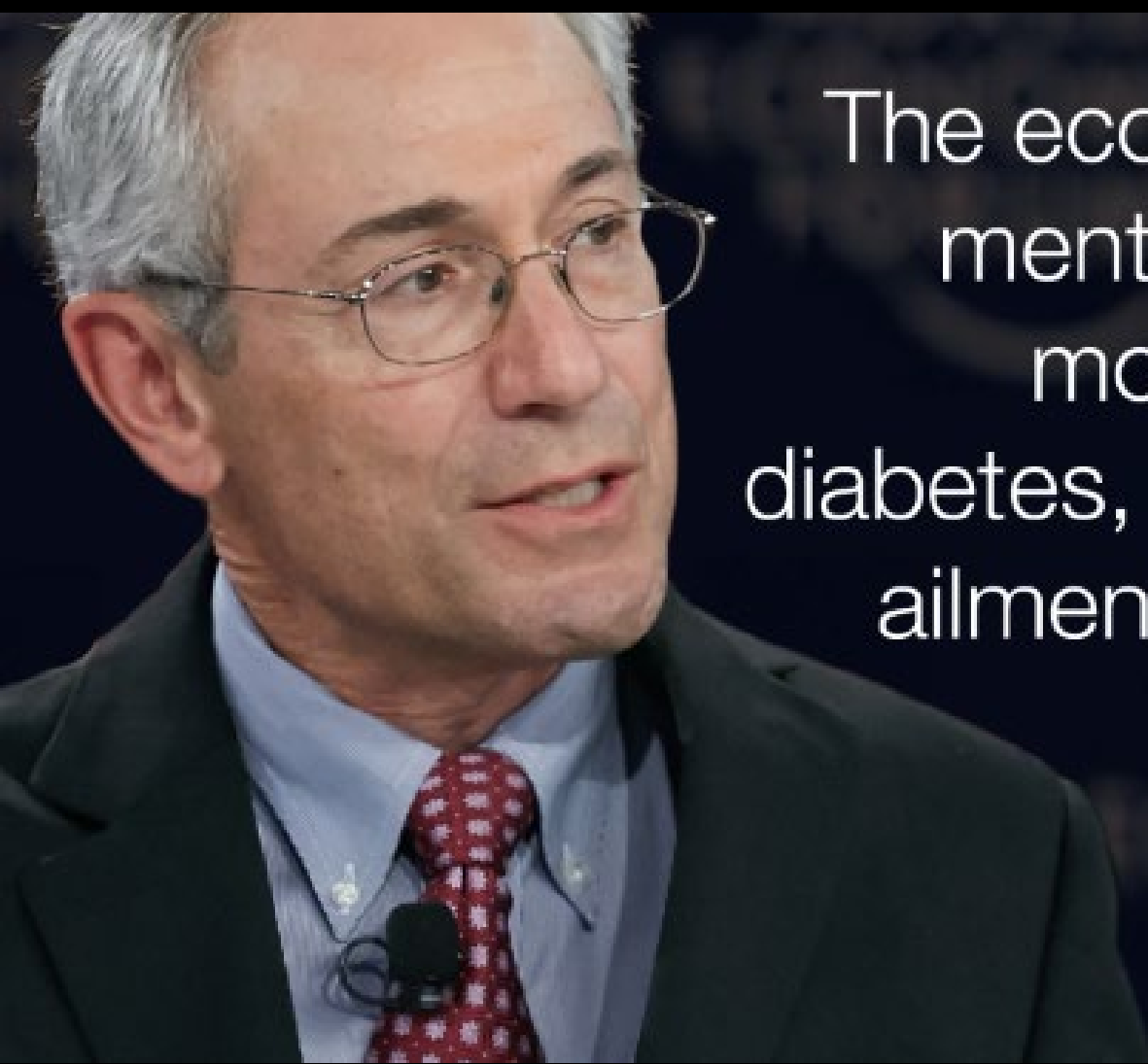
Q&A

You have no question.

What h

☐ Send Anonymously

Send



The economic costs of
mental **illness** will be
more than cancer,
diabetes, and respiratory
ailments put **together**.

Thomas Insel
Director,
National Institute of
Mental Health
USA

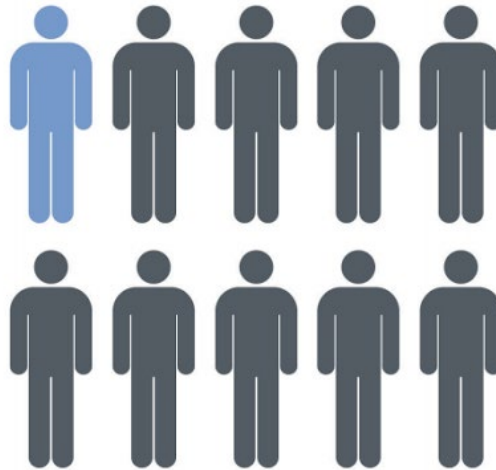
Why has mental illness emerged as #1?

- 1 in 4 will suffer mental illness at some point
 - Depression is the leading cause of disability worldwide
 - More women affected by depression than men
- It's the only “chronic disease of the young”
 - 50% onset by age 14, and 75% by age 24
 - Without treatment, illness can last a lifetime
- Currently, only 1/3 of sufferers receive treatment
 - Stigma and social distancing mask the disease
- The increasingly knowledge-based economy puts a premium on cognitive & mental health

WHO, CDC, US Surgeon General report

30 MILLION

AMERICANS SUFFER FROM EATING DISORDERS



AMERICANS SUFFER FROM EATING DISORDERS

Highest mortality rate of all mental disorders: anorexia

80% of sufferers don't get treatment

Eating disorders cut across gender, ethnicity, class, body shape and size

Eating disorder non-profits collectively raise less than \$10 million per year

Eating Disorders in Children and Adolescents

Martin Fisher, MD

Chief, Division of Adolescent Medicine
Cohen Children's Medical Center of New York
Northwell Health
Hofstra - Northwell School of Medicine



Diagnosis of Eating Disorders – DSM IV

Anorexia Nervosa –

- Weight \geq 15% below expected
- Fear of gaining weight
- Body image distortion
- Amenorrhea of at least 3 consecutive cycles

Bulimia Nervosa –

- Recurrent episodes of binge eating
- Inappropriate compensatory behaviors
- Binge eating / compensatory behaviors
[\geq 2x/week for 3 months]
- Body image concerns
- Disturbance not only during episodes of anorexia nervosa

Eating Disorder Not Otherwise Specified (EDNOS)

Feeding and Eating Disorders of Infancy and Early Childhood

Binge Eating Disorder – In Appendix

Diagnosis of Eating Disorders – DSM 5

- **Anorexia Nervosa (AN)** – 15% below IBW and amenorrhea eliminated
- **Bulimia Nervosa (BN)** – bingeing 1x / week, no subtypes
- **Binge Eating Disorder (BED)** - official category
- **Other Specified Feeding or Eating Disorders**
 - Atypical anorexia nervosa (not underweight)
 - Purging disorder (not bingeing)
 - Sub-threshold bulimia nervosa (<1x/week or <3 months)
 - Sub-threshold binge eating disorder (<1x/week or <3 months)
 - Night eating syndrome (nocturnal eating disorder)
 - Other FECNEC
- **Avoidant / Restrictive Food Intake Disorder (ARFID)** – Rearticulation and expansion of Feeding and Eating Disorders of Infancy and Early Childhood

Epidemiology of Eating Disorders

Anorexia Nervosa

- 0.5% of females
- more in adolescents

Bulimia Nervosa

- 1-3% of females
- more in young adults

Males vs. females

- 10% of total
- more in past decade

Socioeconomic Status

- most in upper middle class
- more widely distributed lately

Race and Ethnicity

- more in White and Asian populations
- less in Black and Hispanic populations

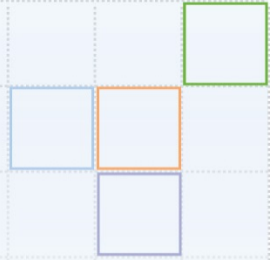
International

- greater than previously
- can introduce to new societies

Progression to an Eating Disorder



Evaluation of an Eating Disorder



- Diagnosis
- Severity
- Differential Diagnosis
 - Medical
 - Psychiatric
- Effects of Malnutrition
- Psychological Context
- Treatment Planning
 - Outpatient
 - Inpatient

Differential Diagnosis / Comorbidity

Medical

- Inflammatory Bowel / Celiac Disease
- Addisons Disease
- Hypo/Hyperthyroidism
- Diabetes Mellitus/Insipidus
- Brain Tumor
- Occult Malignancy

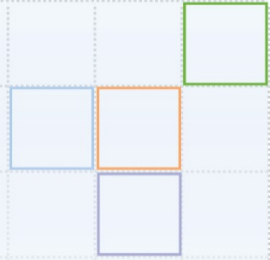
Psychiatric

- Affective Disorder
- Obsessive-Compulsive Disorder
- Schizophrenia
- Substance Abuse
- Paranoid Disorder
- Conduct Disorder

Medical Complications

- Growth and Development
- Metabolic
- Cardiac
- Pulmonary
- Gastrointestinal
- Renal
- Endocrine
- Hematologic
- Neurologic
- Dermatologic

Medical Work - Up



Initial Testing

- CBC
- Comprehensive Metabolic Panel (SMA-20)
- T₄/TSH
- LH/FSH/prolactin
- Urinalysis
- EKG

Atypical Presentation

- CT Scan/MRI
- Upper/lower GI

Effects of Malnutrition

- Vitamin/mineral studies
- Bone Density

The Team Approach To Eating Disorders

- **Rationale**
 - Combination of Medical/Psychological Care
 - Patients often opposed to treatment
 - Difficult Family Situations
- **Team Members**
 - Primary Care Physician, Nursing
 - Psychiatrist, Psychologist, Social Worker
 - Nutritionist
- **Modalities**
 - Nutritional Rehabilitation, Medical Evaluation, Behavior Therapy, Individual Psychotherapy, Family and Group Therapy, Pharmacotherapy



Introduction to Treating Feeding and Eating Disorders

Kamryn T. Eddy, Ph.D.

Co-Director, Eating Disorders Clinical & Research Program,
Massachusetts General Hospital
Associate Professor of Psychology, Department of Psychiatry,
Harvard Medical School



Agenda



1. Evidence-based outpatient treatments
2. Outcomes: what to expect



Eating disorders are common



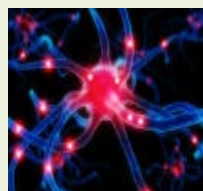
- An estimated **30 million Americans** have a lifetime eating disorder
- Most begin in childhood or adolescence
- 75% of teens are unhappy with their bodies (**25 million teens!**)
- 4-18% of boys and 10-49% of girls engage in problematic weight management behaviors **12 million teens!**



Causes of Eating Disorders are Multi-factorial



Bio-



Psycho-



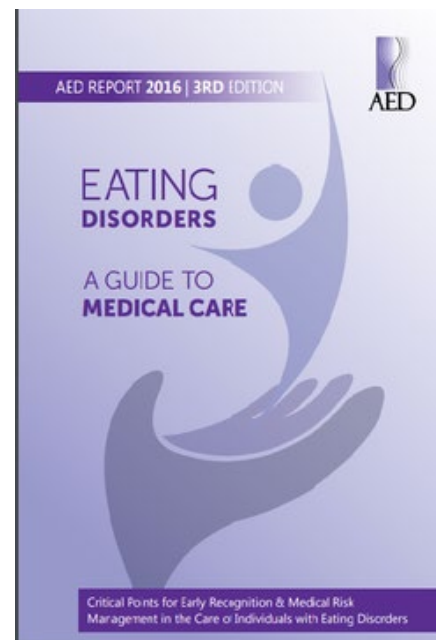
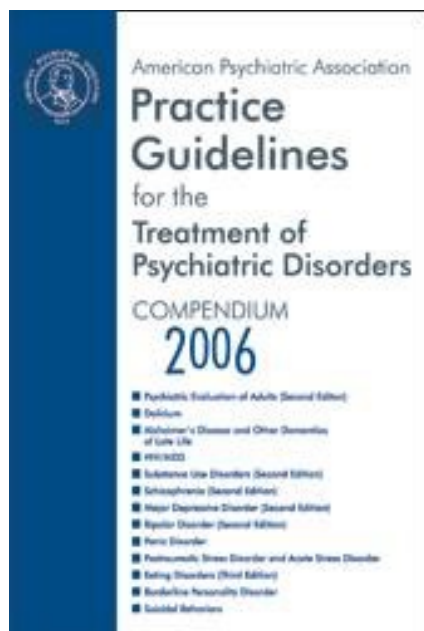
Social



For Whom, What?



- Assessment guides treatment decisions
- APA Practice Guidelines (2006)
- AED Report, Eating Disorders a Guide to Medical Care (2016)





Evidence-based treatments for eating disorders share symptom interruption *behavioral* focus

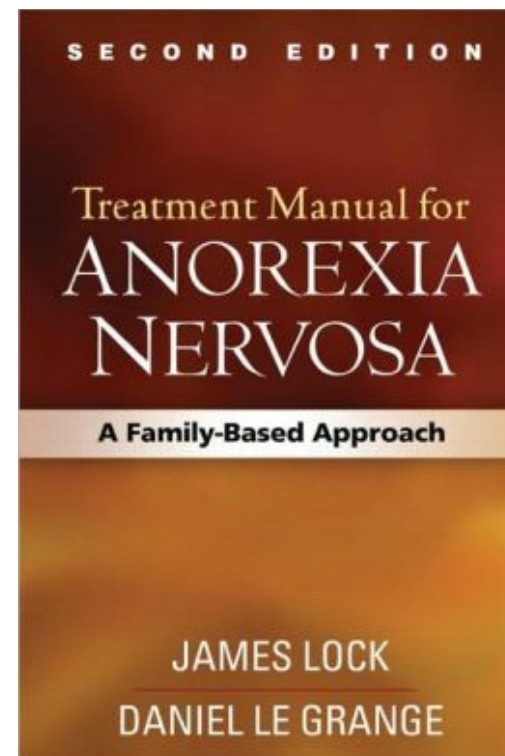
- Family-based treatment (for youth)
- Cognitive-behavioral therapy
- Focus is on **symptom interruption first**



Family-Based Treatment for Adolescents



- Basic principles
 - AN is developmental setback
 - Parents must step in to interrupt symptoms that patient cannot control
- Three phases
 1. Parents re-feed child
 2. Child eats independently
 3. Return to normal development



Lock and Le Grange, 2015

FBT Phase I:



Parents Re-feed Child

- Therapist absolves parents of self-blame
- Parents and patient eat all meals together as a family
- Separate patient from ED



Parents encourage “one more bite”



Parents choose energy-dense foods



Child Eats Independently



Patient may eat lunch at school



Patient might return to activities

- Patient gradually begins to eat meals away from parents
- Therapist tries to differentiate patient's identity from the ED
- Family explores how AN has affected family relationships



Return to Normal Development

- Patient eats most meals on her own and selects foods
- Therapist supports patient's separation from her parents as age-appropriate
- Family remains vigilant for signs of relapse



Increase emphasis on socializing



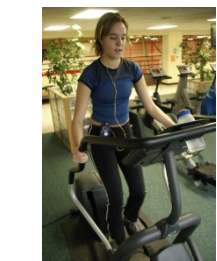
Family prepares for separation

Cognitive Behavioral Therapy - Enhanced

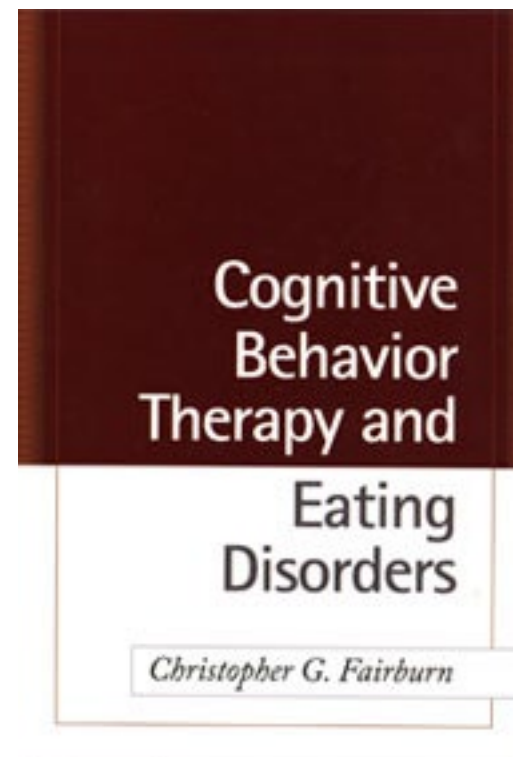


- Basic principles
 - Under-eating maintains psychological ED features
 - Dieting promotes binge eating

Four phases



1. Create personal formulation
2. Identify barriers to change
3. Address maintaining mechanisms
4. Prevent relapse

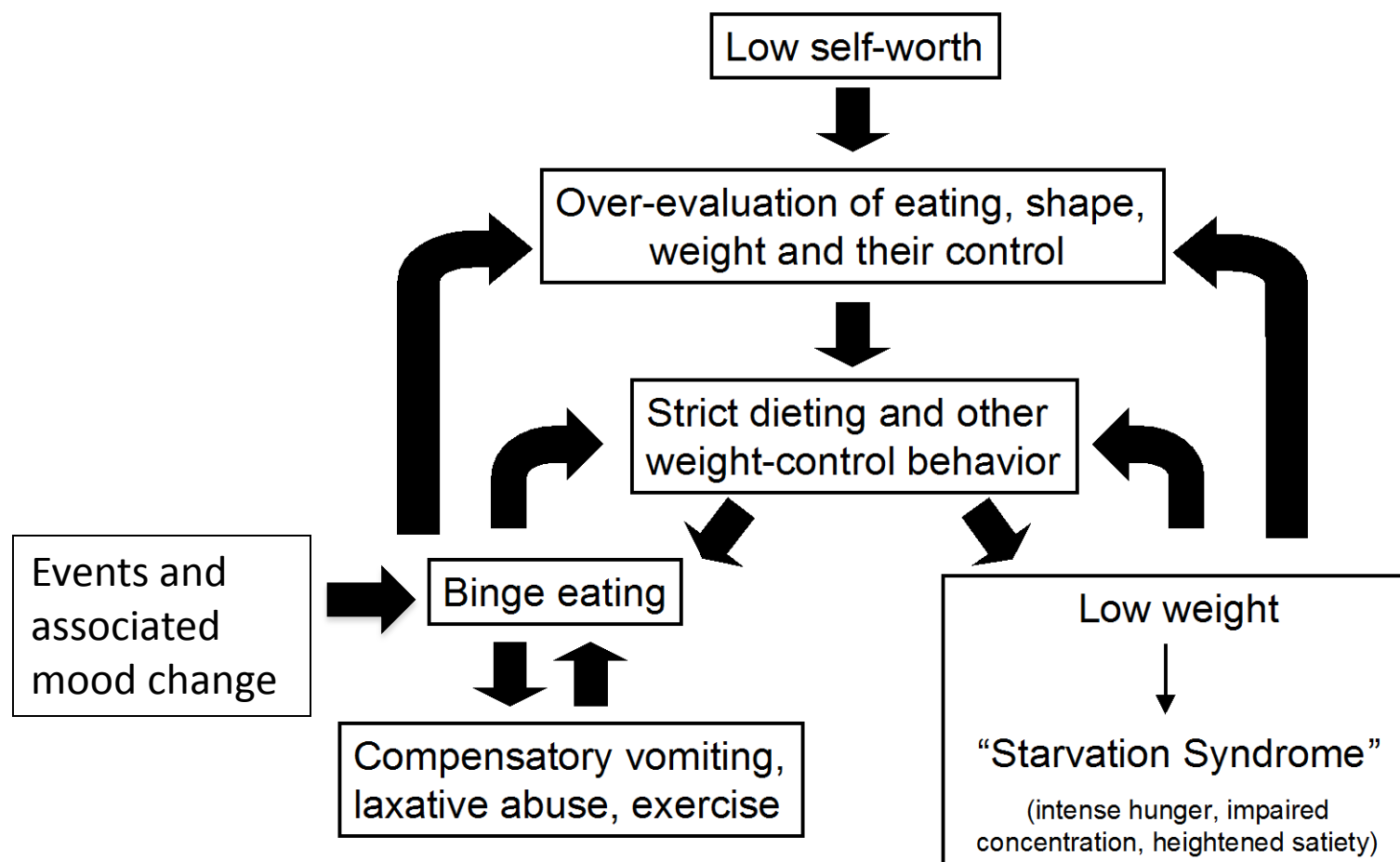


CBT-E Manual

Fairburn, 2008



Create Personal Formulation





CBT Phase II:

Identify Barriers to Change



Weekly weighing prevents patients from magnifying minor changes

- Perceived benefits of ED
 - Consider both pros and cons
- Irregular eating pattern
 - Prescribe 3 meals + 2 snacks
 - Let patient choose foods
- Weighing very frequently or not at all

CBT Phase III:



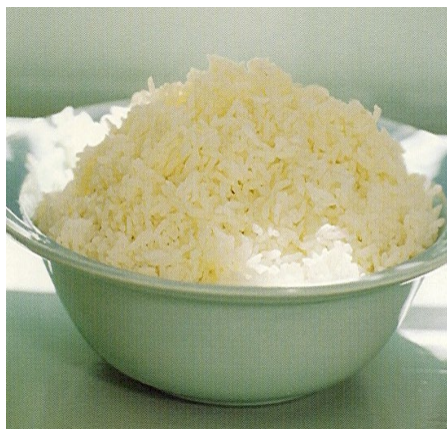
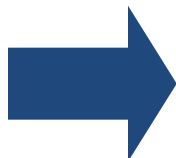
Address Maintaining Mechanisms

Hypothesis:

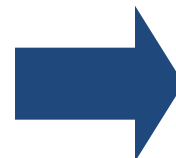
“Eating white instead of brown rice will make me fat.”



Day 1:
Try on jeans



Day 1:
Eat ½ cup white rice



Day 2:
Are jeans tighter?



CBT Phase III:

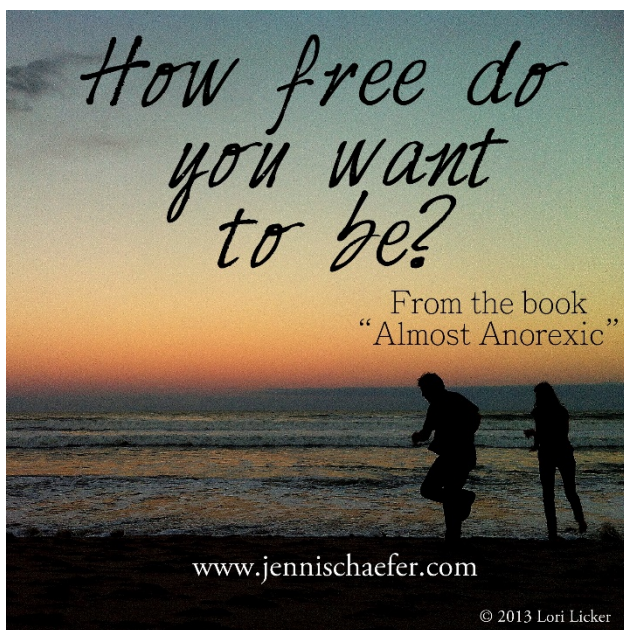


Address Maintaining Mechanisms

- ED patients are incredibly vigilant for potential flaws
 - Examples: hourly weighing, seeing if thighs touch, comparing
 - Design experiments to show how checking is misleading
- ED patients often avoid clothing or activities that accentuate shape
 - Examples: wearing baggy clothes, missing social events
 - Approach valued activities regardless of body image



CBT Phase IV: Prevent Relapse

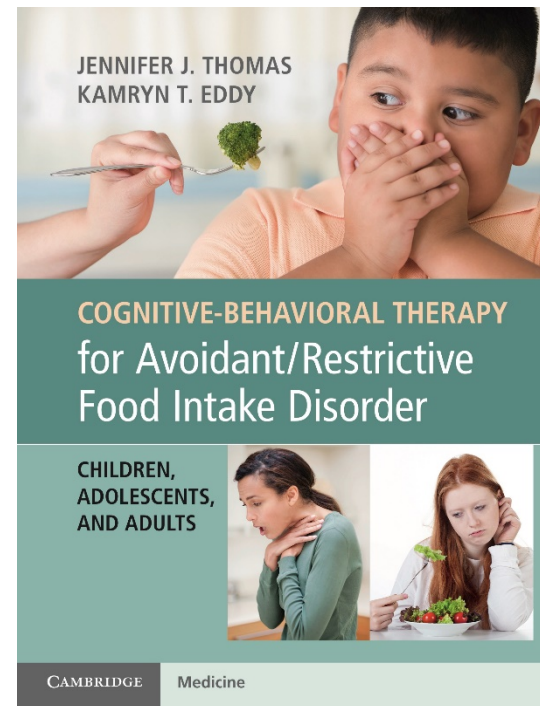


- Identify helpful treatment strategies to continue
- Anticipate upcoming triggers
- Make a plan for handling setbacks

Cognitive Behavioral Therapy for ARFID (CBT-AR)



1. Psychoeducation and regular eating
2. Treatment planning
3. Address maintaining mechanisms
 - a. Sensory sensitivity
 - b. Fear of aversive consequences
 - c. Lack of interest in food or eating
4. Relapse prevention



Thomas & Eddy, 2019

- Delivered in family-supported or individual formats



CBT-AR: Stage 1



- Psychoeducation on ARFID
- Self- or parent-monitoring
- Regular eating
- Personalized formulation
- *If underweight:*
 - Begin to restore weight by increasing volume of preferred foods
 - Conduct in-session therapeutic meal to provide coaching
- *If not underweight:*
 - Make small changes in presentation of preferred foods and/or reintroduce recently dropped foods



CBT-AR: Stage 2



- Identify foods that could correct nutrition deficiencies
- Select new foods to learn about in Stage 3



Sensory Sensitivity Module



Food selectivity due to sensory sensitivity

- Select foods to learn about that
 - Increase representation from 5 food groups
 - Correct nutritional deficiencies
 - Reduce psychosocial impairment
- Early sessions: Repeated exposure to very small portions
- Later sessions: Incorporate larger portions into meals and snacks to meet calorie needs



Fear of Aversive Consequences Module



*Fear of Aversive
Consequences*

- Provide psychoeducation on how avoidance increases anxiety
- Create exposure hierarchy to include small steps leading up to food or eating-related situation that led to initial avoidance
- Continue exposures until patient has completed the most distressing task on the hierarchy



Lack of Interest in Food or Eating Module



*Lack of interest in
food or eating*

- Interoceptive exposures to increase tolerance of physical sensations:
 - Fullness: Rapidly drink several glasses of water
 - Bloating: Push belly out
 - Nausea: Spin in chair
- Self-monitoring to increase awareness of hunger and fullness
- In-session practice with highly preferred foods



CBT-AR: Stage 4



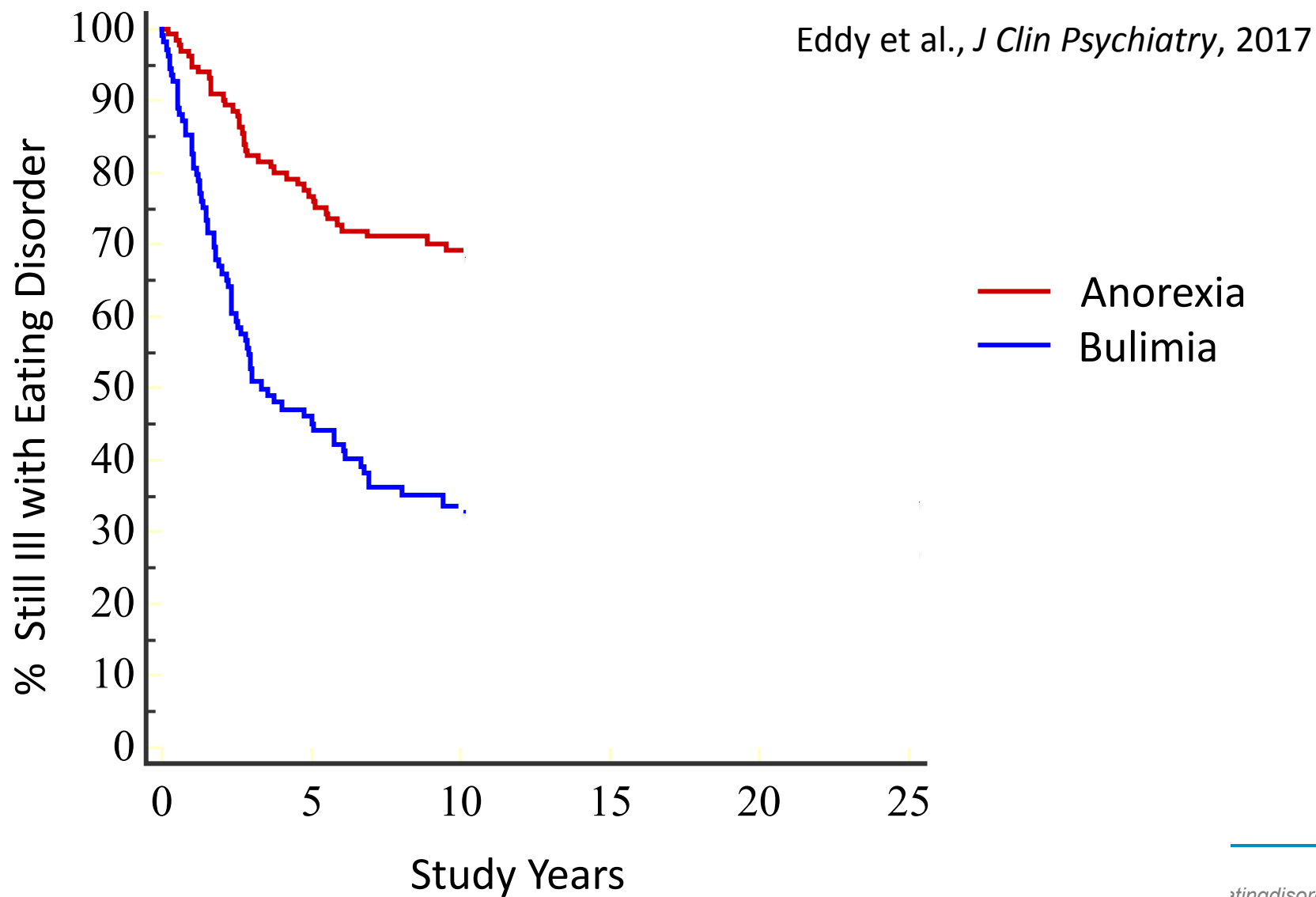
- Evaluate treatment progress
 - Patients unlikely to become “foodies,” even if treatment is successful
 - CBT-AR is designed to expand diet, restore weight, correct nutritional deficiencies, and reduce psychosocial impairment related to ARFID
- Co-create relapse prevention plan
 - Identify CBT-AR strategies to continue
 - Set goals for continued progress



Most people with eating disorders will recover

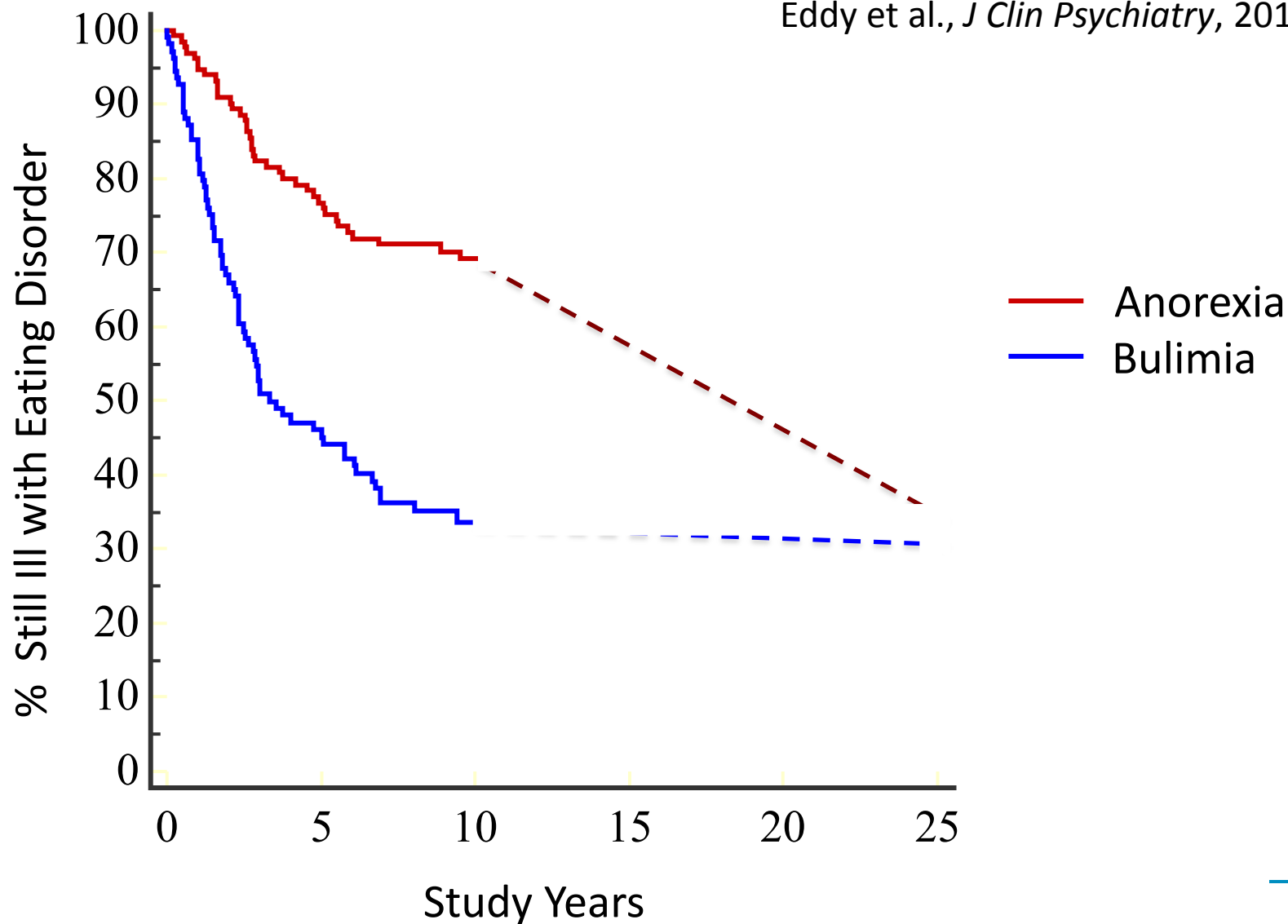
MGH Longitudinal Study of Anorexia and Bulimia Nervosa

- Prospective naturalistic study initiated 1987 ($N = 246$)
 - $n = 136$ with AN, $n = 110$ with BN
- 25-year follow-up
 - During the first 10 years, interviews every 6 months
 - At 25-years, single follow-up interview





Eddy et al., *J Clin Psychiatry*, 2017





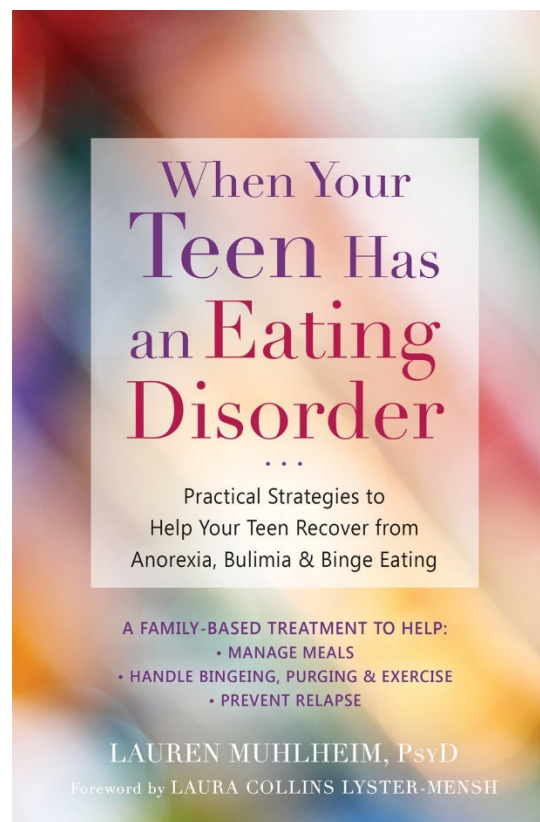
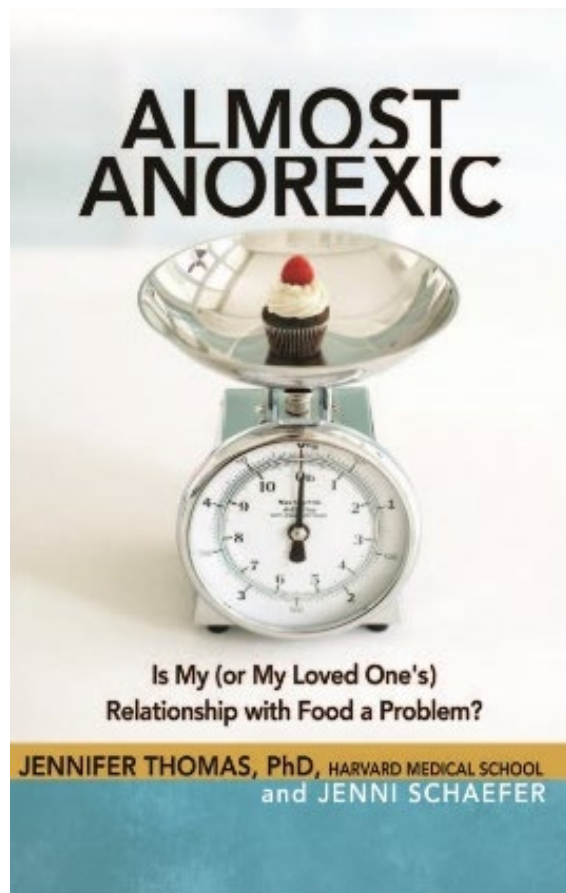
But outcomes can be fatal, and premature death is increased

- Mortality SMR = 5.22 [3.65 – 7.47]
- Suicide SMR = 18.13 [11.47 – 28.66]
- MGH Longitudinal Study f/u for 25 years:
 - 6.5% mortality rate
 - SMR= 3.2 [0.9-8.3] for 0-15 yrs
 - SMR=6.6 [3.2-12.1] for >15-30 yrs
 - Low BMI; alcohol use d/o; poor social fx

Keshaviah et al., *J Clin Psychiatry*; 2014;
Franko et al., *Am J Psychiatry*, 2013



- www.massgeneral.org/eatingdisorders





SCOFF Questionnaire as a screening tool:

“Yes” to 2+ indicates likely ED



Do you make yourself Sick because you feel uncomfortably full?

Do you worry you have lost Control over how much you eat?

Have you recently lost Over 15 pounds in a 3-month period?

Do believe yourself to be Fat when other say you are too thin?

Would you say that Food dominates your life?

Morgan et al., 2009