Common Eating Disorders in the Primary Care Setting

Maria Monge, MD

Director of Adolescent Medicine Dell Children's Medical Center Austin, Texas

Educational Objectives

By completing this educational activity, the participant should be better able to:

- 1. Describe the most common eating disorders in teenage and young adult patients.
- 2. Identify potential medical complications of common eating disorders.
- 3. Recognize the role of the medical provider in treating patients with eating disorders.

Speaker Disclosure

Dr. Monge disclosed that she has no financial relationships with any ineligible organizations or commercial interests.

COMMON EATING DISORDERS IN PRIMARY CARE

Maria C. Monge, MD, MAT Associate Professor, Dell Medical School University of Texas at Austin Department of Pediatrics, Internal Medicine, Medical Education Division Director, Adolescent Medicine

1. Describe the most common eating disorders in adolescents and

2. Identify potential medical complications of common eating

3. Recognize the role of the medical provider in treating teenage

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AUDIENCE POLLING QUESTION 1

I have no financial disclosures with any commercial interest.

In the past 2 years have you and/or your practice seen an increase in patients with eating disorders?

1. YES 2. NO

DISCLOSURES

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COVID-19 AND EATING DISORDERS

OBJECTIVES

young adults.

patients with eating disorders.

disorders.

- Average 48% increase in medical hospitalizations over the past 2 years¹
- · Countless anecdotal reports of increased diagnosis
- · Many proposed contributors

¹J Devoe D, Han A, Anderson A, Katzman DK, Patten SB, Soumbasis A, Flanagan J, Paslakis G, Vyver E, Marcoux G, Dimitropoulos G. The impact of the COVID-19 pandemic on eating disorders: A systematic review. Int J Eat Disord. 2022 Apr 5:10.1002/eat.23704. doi: 10.1002/eat.23704.

9 TRUTHS ABOUT EATING DISORDERS

- Many people with eating disorders look healthy, yet may be extremely ill
 Families are not to blame, and can be the patients' and providers' best allies in
- 3 An eating disorder diagnosis is a health crisis that disrupts personal and family
- functioning
- 4 Eating disorders are not choices, but serious biologically influenced illnesses 5 Eating disorders affect people of all genders, ages, races, ethnicities, body shapes
- and weights, sexual orientations and socioeconomic statuses
- 6 Eating disorders carry and increased risk for both suicide and medical complications
 7 Genes and environment play important roles in the development of eating disorders
- 8 Genes alone do not predict who will develop eating disorders
- 9 Full recovery from an eating disorder is possible. Early detection and intervention are important Source: Academy for Eating Disorders; addreb.org

EATING DISORDER DIAGNOSES AND DEFINITIONS

ANOREXIA NERVOSA

- · Restriction of energy intake relative to requirements
- Low body weight in context of age, sex, development, physical health
- Intense fear of gaining weight or becoming fat which interferes
 with weight gain even at significantly low eight
- Undue influence of body weight or shape on self evaluation, denial of severity

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ATYPICAL ANOREXIA NERVOSA

- · Restriction of energy intake relative to requirements
- Low body weight in context of age, sex, development, physical health
- Intense fear of gaining weight or becoming fat which interferes with weight gain even at significantly low eight
- Undue influence of body weight or shape on self evaluation, denial of severity

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BULIMIA NERVOSA

- · Recurrent binge eating
- Recurrent compensatory behavior to prevent weight gain (vomiting, laxatives, diuretics, enemas, exercising, etc.)
- Undue influence of body weight or shape on self evaluation

Restriction is almost always a feature

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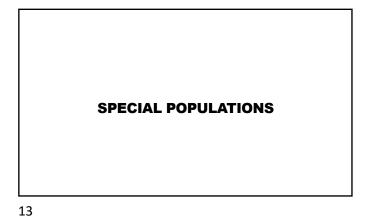
BINGE EATING DISORDER

- Frequent binge episodes
- Lack of control during bingeing and feelings of distress
- · Must have 3+
 - Eating much more rapidly than normal
 - Eating until feeling uncomfortably full
 - Eating large amounts of food when not feeling physical hungry
 - Eating alone due to feeling embarrassed by amount consumed
 - Feeling disgusted with oneself, depressed or very guilty afterwards

Restriction is almost always a key component

AVOIDANT/RESTRICTIVE FOOD INTAKE DISORDER (ARFID)

- Lack of interest in food or concern about adverse consequences of eating
 - Results in significant weight loss and nutritional deficiency which cannot be attributed to another cause
- · No weight or body shape concerns



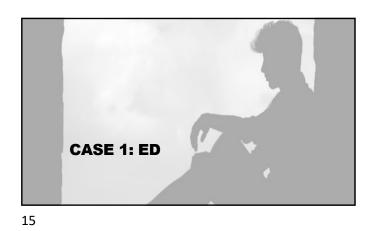
DIVERSE PATIENTS

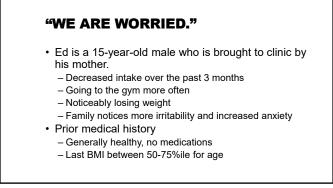
- Well documented challenges of diagnosis, study and treatment of ED in patients who do not present as thin, white, wealthy, cis-gender, heterosexual female
 - Cisgender menGender and sexual minority persons
 - Persons of color
 Food insecurity
 - Food insecurity
 Bigger body size

Known risk factors for ED

- Economic and housing instability
 Social marginalization
- Social marginalization
 Psychological distress

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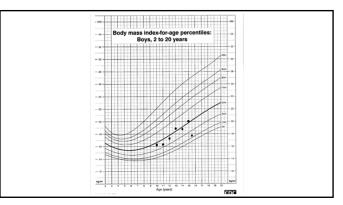
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"I DON'T HAVE AN EATING DISORDER, IF THAT'S WHAT YOU THINK."

• During COVID restrictions

- "Get healthy"

- Fitness app on phone; tries for "negative" balance every day
- Estimates 1250-1500kcal/day
- 1-2 hours of exercise per day
- $-\operatorname{No}$ vomiting, diet pills, laxatives or diuretics
- Completely asymptomatic "feels fine" by his report



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AUDIENCE POLLING QUESTION 2

Based on this brief history and growth chart, how concerned are you?

- 1. Not concerned: He is asymptomatic
- 2. Slightly concerned: His weight has dropped
- 3. Moderately concerned: Way too little food
- 4. Extremely concerned: 2+3 and family observations
- 5. To early to tell, need more information

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EXPERT TIP

· Growth charts are a critical tool in eating disorder diagnosis and management.

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· During adolescence body mass should continue to increase even if height accrual has ceased.

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ADDITIONAL HISTORY

• Ed knows that he has lost weight, but his focus is really on building muscle and "getting ripped".

- ED specific ROS → reports ONLY when asked
- Fatigue
- Positional dizziness
- Constipation
- Post-prandial abdominal pain
- Cold intolerance
- Decreased libido
- Worsening mood
- · Increasing anxiety

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EXPERT TIP

· A targeted, eating disorder-specific ROS can be very enlightening and help patients/families understand starvation physiology.

FOR REFERENCE (ED SPECIFIC ROS)				
General	GI	Extremities		
Fatigue	Abdominal pain	Edema		
Dizzy/Lightheaded	Reflux	Stress fractu		
	Bloating			
HEENT	Early satiety	Derm		
Parotid pain/swelling	Constipation	Poor wound		
Dental Caries		Easy bruising		
Angular Chelitis	Endocrine	Dry Skin		
	Cold intolerance			
cv	Hair thinning	Psych		
Chest pain	Menstrual irregularity	Anxiety		

Menstrual irregularity Low libido Hot flashes

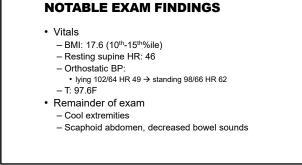
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healing ۱g

Irritability Difficulty concentrating Mood concerns

Palnitations

Positional dizziness



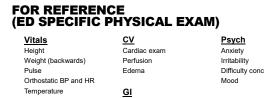
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AUDIENCE POLLING QUESTION 3

Other than low weight, what is the most common physical exam finding in patients with restrictive eating disorders?

- 1. Thinning hair
- 2. Joint swelling
- 3. Enlarged thyroid
- 4. Bradycardia
- 5. Hypoactive bowel sounds

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Derm

Lanugo Xerosis Scrapes/cuts

Abdominal exam

Difficulty concentrating

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HEENT Parotid swelling

Dentition

EXPERT TIP

• A completely normal physical exam does not exclude an eating disorder.

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AUDIENCE POLLING QUESTION 4

Based on this additional information, how concerned are you?

- 1. Not concerned
- 2. Slightly concerned
- 3. Moderately concerned
- 4. Extremely concerned
- 5. Need more information

AUDIENCE POLLING QUESTION 5

What would you do next?

- 1. Refer to nearest eating disorder facility for evaluation
- 2. Discuss ways to increase calories, refer to dietician, see in 1 week for follow-up
- 3. Refer for cognitive behavioral therapy, see in 1 month
- 4. Start SSRI and refer to dietician, see in 1 month
- 5. Reassure Mom that current behaviors are healthy

EXPERT TIP

· In a medically stable patient, time can be a diagnostic tool.

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ROLE OF THE PHYSICIAN IN TREATMENT OF PATIENTS WITH EATING DISORDERS

- Medical monitoring Medical monitoring o Weight and vital sign checks every 1-4 weeks o Growth and development o Menstrual assessment o Lab monitoring as indicated

- O Bone health assessment
 O Exercise restrictions and return to sport
 Overall progress
- Symptom management GI symptoms (constipation, reflux, bloating, etc.) Anxiety 0
- Connection to Treatment
- Outpatient resources
 Recommendations for more support if stalled progress

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RECOMMENDED INITIAL LAB EVALUATION

- All patients Electrolytes including Ca, Mg, Phos Liver and kidney function
 - CBC

 - UA and hcg
 +/- free T3
 - Vitamin D
 - EKG
 - Bone density (depending on duration of disease)
- Unsure of etiology of weight loss
- Inflammatory markers - Celiac panel
- Thyroid testing
- Other testing based on signs/symptoms

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- · For patients who are renourishing
 - CMP, Mg, Phos
 - Follow weekly
 - If weight is trending up/intake is increasing consistently, once normal
 - x 3-4 weeks, can change to as needed
 - If weight stalls or starts to decline amidst renourishing, resume weekly labs until stable
 - If new symptoms, repeat
 - No role for ongoing CBC, TFTs, etc., unless specific questions

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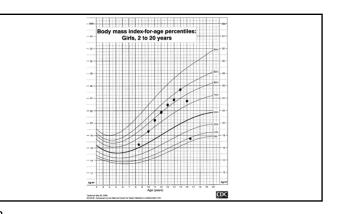
"SHE IS PASSING OUT"

- · Anna is a 16.5-year-old who is brought to clinic by her parents who are concerned that she has passed out twice in the past week.
 - Feels weak and dizzy when she stands
- Parents have noticed her eating less
- Feels good about weight loss because she used to be overweight
- · Review of medical chart
 - 15 yo WCC: BMI 90th%
 - 16 yo WCC: BMI 75-85%

I WAS OVERWEIGHT AND I WAS TRYING TO BE HEALTHY

- · Started dieting about 7 months ago
- · Tries to eat 500kcal/day or less
- Runs 30 min/day, Ab exercises 30 min/day
- If goes over 500kcal/day, vomits after dinner - 2x/week
- · Has received a lot of positive comments about her weight loss

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AUDIENCE POLLING QUESTION 6

Based on this brief history and growth chart, how concerned are you?

- 1. Not concerned
- 2. Slightly concerned
- 3. Moderately concerned
- 4. Extremely concerned
- 5. To early to tell, need more information

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EXPERT TIP

· In dieting patients, ask about purging and be specific.

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A WORD ABOUT PURGING

- · Purging is a common compensatory behavior
 - Exercise (probably most common) - Vomiting
 - Laxatives
 - Diuretics
- Bulimia involves *both* bingeing and purging
- · In patients who restrict calories, vomiting can be very dangerous
 - Less likely to replete electrolytes
 - Electrolyte abnormalities can exacerbate medical complications of patients with anorexia

DIETING... THE SLIPPERY SLOPE

- · Not all patients who diet develop an eating disorder, but most patients with an eating disorder started by dieting.
- Thoughts about body weight/shape start early¹ - 42% of 1st-3rd grade girls want to be thinner
 - 81% of 10-year-olds are afraid of being fat

Dieting statistics²

– YRBS 47.7% of 9-12th graders trying to lose weight - Early dieting and extreme weight control behaviors predictive of later eating disorders

¹www.nationaleatingdisorders.org/get-facts-eating-disorders ²http://www.cdc.gov/healthyyouth/data/yrbs/index.htm

BEWARE THE DIET

- · Most teens are very aware of their weight status
- Advice on weight reduction in overweight teens needs to be done carefully.
- Remember eating disorders impact adolescents of all sizes.

REVIEW OF SYSTEMS

- **Gen**: fatigued, not sleeping well, difficulty concentrating (though grades all As)
- Psych: feels anxious and overwhelmed, passive SI
- HEENT: frequent headaches
- Endo: cold most of the time
- GYN: no period in 3 months
- GI: no appetite, post-prandial abdominal pain, constipation, reflux

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EXAMINATION

- · Vitals:
 - BMI: 17.5 (<10th%ile)
 - Resting supine HR: 38
 - Orthostatics: 90/58 HR 38 → 84/48 HR 70 (dizzy)
 - T: 97.1F
- · Remainder of exam:
 - Notable for flat affect, muscle wasting, dry skin, thin hair, lanugo, cool extremities, scaphoid abdomen, bradycardia

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AUDIENCE POLLING QUESTION 7

What is your next step?

- 1. Refer to nearest eating disorder program to start as soon as possible.
- 2. Express serious concern and plan to admit to the hospital for medical stabilization.
- 3. Discuss ways to increase food intake, decrease exercise, refer to dietician and see back in 1 week.
- 4. Recommend cognitive behavioral therapy, start an SSRI and see back in 3 days.

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EXPERT TIP

· Know indications for immediate higher level of care.

RECOMMENDATIONS FOR HOSPITAL ADMISSION

	SAHM	AAP	APA
Weight	≤ 75% mBMI for age/sex	≤ 75% MBW <10% body fat	<85% healthy weight Acute weight loss and food refusal
HR	<50 day <45 night	<50 day <45 night	Near 40 >110
BP	<80/50	Systolic <90	<80/50
Orthostatic changes	>20 HR >20 SBP >10 DBP	>20 HR >10 SBP	>20 HR >20 SBP
EKG abnormalities	QTc prolongation, severe bradycardia		
Temperature	<96°F	<96°F	<97°F
Electrolytes	Low K, PO4, Na	K<3.2 CI <88	Low K, PO4, Mg
Other considerations	Any acute medical complication of malnutrition, failure of outpatient, acute food refusal, uncontrollable biogo/ourgo	Failure of outpatient	Poor motivation to recover

AUDIENCE POLLING QUESTION 8

What is the most common lab abnormality in patients with <u>restrictive</u> eating disorders?

- 1. Anemia
- 2. Hypoglycemia
- 3. Hypokalemia
- 4. Subclinical hyperthyroid
- 5. Elevated Cr
- 6. None

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AUDIENCE POLLING QUESTION 9

What is the most common lab abnormality in patients with <u>binge/purge</u> eating disorders?

- A. Anemia
- B. Hypoglycemia
- C. Hypokalemia
- D. Subclinical hyperthyroid
- E. Elevated Cr
- F. None

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NOTABLE LABS

- H/H 12.0/35.4 MCV 83
- WBC 3.0 (low)
- Na 142 K 3.8
- BUN 29 (high) Cr 0.9
- TSH 1.5 free T4 1.3 free T3 1.8 (low)

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REPRESENTATIVE LAB/TEST ABNORMALITIES

Lab/Test	Potential Abnormality	Mechanism
СВС	↓WBC	Bone marrow suppression
CBC	↓Hgb	Nutritional deficiency
	√Na	Excessive fluid, nutritional deficiency, impaired renal function
Electrolytes	↓к	Purging (vomiting, laxative, diuretic)
	↓PO4/Mg	Typically during refeeding
Renal function	Acute kidney injury	\uparrow BUN – muscle breakdown, high protein diet, volume depletion \uparrow Cr (in context of muscle mass)
	Chronic kidney disease	Prolonged direct injury due to starvation
Liver function	$\ensuremath{\uparrow}\ensuremath{LFTs}$ in starvation and refeeding	Initial: Starvation physiology Refeeding: transient fatty liver infiltration
Thyroid	↓free T3, +/- ↓free T4	Sick euthyroid
ESR	Low	Starvation physiology
EKG	Sinus bradycardia, prolonged QTc	Starvation physiology, electrolyte derangement

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A WORD ABOUT MENSES

- Amenorrhea is typically due to hypothalamic suppression of HPO axis due to low energy availability and/or physiologic stress
- Prolonged amenorrhea
 - Bone health
 - Cardiovascular health
 - Mood concerns
- Menstrual return typically around 90-92% of median BMI for age
 At least 3 months at minimum weight
- Consider bone neutral contraception if needed



FORMALIZED TOOLS

- SCOFF (Sick, Control, One, Fat & Food) (2+ positive)
 - 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 more than 14lb (ONE stone) in a 3-month period? Do you believe yourself FAT when others say you are too thin?
 Would you say that FOOD dominates your life?
- ESP (Eating Disorder Screen for Primary Care) (3+ positive)
 - · Are you satisfied with your eating patterns?
 - Do you ever eat in secret?
 - · Does your weight affect the way you feel about yourself?
 - Have any members of your family suffered from an eating disorder?
 Do you currently suffer with or have you ever suffered in the past with an eating
 - disorder?

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ONLINE SCREENING TOOL nationaleatingdisorders.org/screening-tool CALLHELPLINE | CHATNOM | SCREENING TOOL SHOP | DONATE VED | BLOG | COMHU US | HELP Eating Disorders Screening Tool This short screening — appropriate for ages 13 and up -can help determine if it's time to seek professional help. Get ned NEDA

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MULTIDISCIPLINARY APPROACH

- · Physician
- Therapist/Psychologist
- Dietician
- Psychiatrist
- · Family/Friends

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EXPERT TIP

· Know your local resources and how to access them. Now resources are also virtual!

SUMMARY

- · Eating disorders are challenging for patients, families and physicians
- · Remembering the role of the physician can help with comfort in evaluating and treating these patients
- · Know when to escalate care and ask for help
- · Familiarize yourself with resources and assemble a team – It takes a village!

CONTACT

Maria C. Monge, MD Division Director, Adolescent Medicine University of Texas at Austin, Dell Medical School Dell Children's Medical Group

Email: <u>mcmonge@ascension.org</u> Phone: 512-324-6534 Fax: 512-324-6532

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RESOURCES FOR PATIENTS AND PHYSICIANS

- National Eating Disorders Association (NEDA)
 <u>www.nationaleatingdisorders.org</u>
- Academy of Eating Disorders
- www.aedweb.org
- Maudsley Parents
 <u>www.maudsleyparents.org</u>
- F.E.A.S.T. (First 30 days)
- <u>www.feast-ed.org</u>

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<u>Notes</u>

