Screening for Eating Disorders

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Objectives

Identify early physical signs or symptoms of an eating disorder.

Identify the difference between screening for eating disorders, and diagnosing an eating disorder.

Introduce the SCOFF Screening Tool and its appropriate use.

Identify resources for information regarding eating disorders.
Problem

Eating Disorders

Not the current school health focus.

Have been identified as the most common psychiatric problem affect young women.

Many adolescents do not meet the diagnostic criteria, however have disordered eating patterns.

Anorexia is life threatening, has the highest mortality rate of any mental illness.
Eating Disorders

DSM IV Principle Types of Eating Disorders

- Anorexia Nervosa
  - Restricting
  - Binge-eating/purging

- Bulimia Nervosa
  - Purging
  - Non Purging

- Non-specified Eating Disorder
Who Gets Eating Disorders?

- Most common in adolescents and young adults, males and females, however 10 times more common in females.

- Occurs in all ethnic groups and social-economical groups, however, more common in Caucasians in industrialized nations.

- Nervosa is the number one health concern in China (National Institute of Mental Health, 2012).

- Three major influences that puts a person at risk for developing an eating disorders, biological, psychological, and family/social pressures.
Biological Risk

An Individual

Has 56% chance of developing an eating disorder if a relative/family member had or has an eating disorder. (Archives of General Psychiatry, 63(3)305-312)

Is 12 times more likely to develop anorexia nervous if their mother or sister has been diagnosed. (Bulik et al., 2006)
Psychological Risk

Individuals who are frequently anxious.
Those in the early stages of adolescents.
Those who avoid becoming independent.
Perfectionist, and when not perfect see themselves a failure.
Family/Social Risk

Parents who are controlling, or place a great deal of value on appearance, or who frequently diet themselves and often criticize their child’s appearance.

Stressful life events - death in the family, break up with a boy/girl friend, going away to school.

Peer groups-wrestlers, cheerleaders, dancers, gymnasts, runners, actors, models.
Primary “RED” Flags

- Body Dissatisfaction
- Dieting
- Low self-esteem
- Perfectionism
- Childhood sexual abuse
- Family History of an eating disorder
Who Has an Eating Disorder?

- The U.S. Surgeon General estimated the prevalence of anorexia nervosa to be 0.01% of the population (2002).
- Approximately 10 million females and 1 million males are suffering from an eating disorder (Hoek & van Hoeken, 2003).
- The National Institute for Mental Health (NIMH) has estimated 0.5 to 3.7 percent of females are affected, 0.5% of those identified are adolescents.
- This makes the overall prevalence rate of the disorder to be about one in 1,000 or affecting an estimated 272,000 people in the United States. (NIMH)
- Reported figures significantly underestimate the prevalence of the disease, which may actually be as high as 5-10% of the population in the United States (Sullivan, 1995; National Institute of Mental Health, 2001).
- The nature of the disease and unwillingness for self-disclosure, make compiling accurate statistics impossible. It is estimated only $\frac{1}{2}$ of those with an eating disorder have been diagnosed.
What we do Know

- Hospitalization rates for eating disorders increased 18% between 1999 and 2006.
- Hospitalizations specifically for males with eating disorders increased 37% between 1999-2006.
- 2005-2006 Eating Disorder Patients
  - 24% had cardiac dysrhythmias
  - 4% had acute renal failure
  Representing 125% and 118% increase from 1999-2000 (Zhao & Encinosa, 2009)
Identification

Eating disorder are very difficult to identify.

There are RED flags of psychological, behavioral, and physical symptoms that may have been seen in a child with an eating disorder.

Some of the symptoms may be easily identified and others may not be seen at all.

Identification of symptoms depends on the severity of the disorder and how long it has been affecting the child.
Psychological Indicators

- Self injury
- Difficulty in following a conversation
- Poor concentration
- Poor memory
- Feeling of pride when losing weight or resisting hunger
- Feeling of shame in relationship to eating habits
- Body distortion associated with anxiety
- Intense fear of gaining weight or becoming fat
Psychological Indicators

- Minimizes feelings or extreme anger at family regarding eating habits
- Co-morbidity of depression
- Co-morbidity of OCD (Obsessive Compulsive Disorder)
- Suicidal ideation
- Deception, lying to hide eating disorder
- Feelings of hopelessness
- Feelings of self hatred
- Extreme thought patterns or perfectionism
Behavioral Indicators

- Missing school/classes
- Social withdrawal
- Constantly comparing body size to others
- Excessive use of bathroom scale
- Preoccupation with body reflection in mirrors/windows
- Calorie intake reported below 800 kcal per day
- Refusal to keep food down/purging
- Hiding and hoarding food
- Cutting food into tiny pieces and moving it around the plate
Behavioral Indicators

- Excuses self from the table at meal time
- Not eating in front of others
- Lying about having eaten
- Eating the same foods every day/rigid food rituals
- Becoming a vegetarian
- Excessive water or diet soda intake
- Refusal to maintain weight
- Excessive gum chewing
Behavioral Indicators

- Wearing baggy clothing
- Wearing many layers of clothing despite the weather.
- Excessive exercise
- Preparing food for others and not eating
- Excessive baking for others
- Constant obsessing about food
- Over use of laxatives
- Over use of diet pills
- Over use of energy drinks
### Physical Indicators

<table>
<thead>
<tr>
<th>Early Signs</th>
<th>Late Signs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unexplained weight loss</td>
<td>80% below normal body weight</td>
</tr>
<tr>
<td>▪ Lightheadedness/Dizziness</td>
<td>▪ BMI below 16</td>
</tr>
<tr>
<td>▪ Syncope</td>
<td>▪ Chest pain</td>
</tr>
<tr>
<td>▪ Constant complaints of headache</td>
<td>▪ Orthostatic blood pressure changes</td>
</tr>
<tr>
<td>▪ Cold intolerance</td>
<td>▪ Bradycardia/Palpitations</td>
</tr>
<tr>
<td>▪ Extreme fatigue</td>
<td>▪ Dehydration</td>
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</table>
## Physical Indicators

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<th>Early Signs</th>
<th>Late Signs</th>
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<tbody>
<tr>
<td>Loss of hair</td>
<td>Yellow tint to skin</td>
</tr>
<tr>
<td>Lanugo on face, neck and arms</td>
<td>Blue tint to hands</td>
</tr>
<tr>
<td>Restlessness</td>
<td>Amenorrhea</td>
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<tr>
<td>Insomnia</td>
<td>Dental enamel erosion</td>
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<tr>
<td></td>
<td>Swollen or tender parotid glands</td>
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<tr>
<td></td>
<td>Severe abdominal pain and blotting</td>
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<tr>
<td></td>
<td>Constipation or diarrhea due to use of laxatives</td>
</tr>
<tr>
<td></td>
<td>Abdominal pain with consumption of food</td>
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<tr>
<td></td>
<td>Constant indigestion and heart bur</td>
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</tbody>
</table>
Clinical Findings

- Serum potassium < 2.6 mm/dl or > 6.0 mm/dl
- Serum Calcium < 6 mg/dl or > 13 mg/dl
- EKG abnormalities
- Bone marrow suppression
- Serum protein and or albumin below or above normal
- Elevated TSH
- Low T4
- Low LH
- Hypercarotenemia
- Esophageal tear
- Gastric reflux
- Osteoporosis in and adolescent
- Elevated serum amylase or lipase
- Elevated liver enzymes
- Pancreatitis
- Possible gastric rupture
Diagnosing an Eating Disorder

**DSM IV Criteria for Anorexia Nervosa**

- Weight loss leading to maintenance of body weight <85%.
- BMI <17.5%
- Disturbance in one's body image, weight or shape
- Amenorrhea (at least three consecutive cycles)

**DSM IV Criteria for Bulimia Nervosa**

- Eating an amount of food that is larger than most people would eat during similar period of time.
- Feeling that one cannot stop eating or control what or how much one is eating.
- Use of compensatory methods to prevent weight gain: Use of laxatives, diuretics, enemas, or other medications.
- Fasting
- Excessive exercise
Diagnosing an Eating Disorder

DSM IV Criteria for Eating Disorder Not Otherwise Specified

- Eating disorder not otherwise specified, disorders of eating that do not meet the criteria for any specific eating disorder.

- 1. The patient meets the criteria for anorexia nervosa, except has regular menses.

- 2. The patient meets the criteria for anorexia nervosa, but despite significant weight loss, the patient's current weight is in the normal range.

- 3. The criteria for bulimia nervosa are met except that the binge eating and inappropriate compensatory mechanisms occur less than twice a week or for less than 3 months.

- 4. The patient has normal body weight and regularly uses inappropriate compensatory behavior after eating small amounts of food.

- 5. Repeatedly chewing and spitting out, but not swallowing, large amounts of food.

Why Screen?


“All adolescents should be screened annually for eating disorders and obesity by determining weight, and stature, and asking about body image and dieting patterns”.

Why Screen?

“It is important to aggressively treat patients who have traits of eating disorders but who do not meet the full criteria for anorexia or bulimia”

(American Family Physician, 2003, p 298)
Why Screen?

Early identification increases the chance of a successful recovery.

Once a student turns eighteen, he/she may legally refuse treatment.
## Types of Screening Tools

<table>
<thead>
<tr>
<th>Eating Attitudes Test (EAT)</th>
<th>EAT-26</th>
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</thead>
<tbody>
<tr>
<td>(Garner &amp; Garfinkle, 1979)</td>
<td>(Garner et al, 1982)</td>
</tr>
<tr>
<td>40-item self report for AN</td>
<td>Measurement of a general eating disorder</td>
</tr>
<tr>
<td>14 items were later found unnecessary. = EAT-26</td>
<td>20/26 cut off identifies problematic attitudes with eating.</td>
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<table>
<thead>
<tr>
<th>Bulimia Test-Revised (BUILT-R)</th>
<th>Eating Disorder Examination (EDE)</th>
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<tr>
<td>(Thelen, Farmer, Wonderlich &amp; Smith, 1991)</td>
<td>(Fairburn &amp; Cooper, 1993)</td>
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<tr>
<td>28-item questionnaire</td>
<td>Clinician interview</td>
</tr>
<tr>
<td>Measurement of Bulimia</td>
<td>Considered the “method of choice” for assessing specific eating disorders.</td>
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</tbody>
</table>
The SCOFF Screening Tool

- 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 that 14 pounds (**one** stone) in a three month period?
- Do you believe you are **fat**, when others say you are thin?
- Would you say **food** dominates your life?
Why the SCOFF?

- The SCOFF Questionnaire developed in London in 1999 to screen for the presence of eating Disorders.

- Two or more positive answers, results provided 100% sensitivity for anorexia and bulimia.

  (All cases, 95% confidence interval 96.9% to 100%; bulimic cases, 92.6% to 100%; anorectic cases, 94.7% to 100%), with specificity of 87.5% (79.2% to 93.4%)
Why the SCOFF?

Since 1999 the SCOFF questionnaire has since been studied and tested:

- Internationally in Finland, China, Spain, Austria, and the Untied States (Hautla et al., 2009; Mond et al., 2007; Muron-Sans, et al., 2008;).

- And has been identified as a reliable screening tool for adolescents with a sensitivity of 81.9% and a specificity of 78.7%.

- And is recommended for us as a screening tool by primary care providers by the American Academy of Family Physicians, (2003) and the American Medical Association (2012).
Resources

Internet Websites

Gurze Eating Disorders Resource Catalogue
References


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