Geriatric Anorexia Nervosa

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Eating disorders are not commonly diagnosed in individuals aged >50 years, yet they are associated with significant psychiatric comorbidities and overall morbidity. Anorexia nervosa is the most common eating disorder among this age group, and women are affected most often. We present the fatal case of a 66-year old woman with severe malnutrition and newly diagnosed anorexia nervosa. Inpatient refeeding was unsuccessful, and she succumbed to multisystem organ failure. The timely recognition of eating disorders among older people is important for family physicians who care for patients across the life spectrum. (J Am Board Fam Med 2017;30:666–669.)

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Here we present a case of an older woman presenting with severe malnutrition and undiagnosed anorexia nervosa.

Case
A married 66-year-old woman with 16 years of formal education was admitted to the university hospital for worsening weakness and shortness of breath over months that was now limiting her ability to ambulate. She also reported worsening abdominal discomfort and cramping and a general nonspecific reduction in appetite. She denied any other symptoms. Her history was significant for generalized anxiety, hypertension, peptic ulcer disease, irritable bowel syndrome, hypothyroidism, gastroesophageal reflux with esophagitis, and ongoing malnutrition (decrease in body weight and albumin concentrations <3 g/dL [range, 3.4–5.0 g/dL] since 2013). She had undergone a prior cholecystectomy and hysterectomy. A chart review demonstrated a weight of 59.4 kg in 2006 and then a dramatic change in weight to 46.2 kg in 2009, which was associated with concerns about an eating disorder voiced by her spouse and adult children, and concerns from her primary physician upon continued unrevealing medical evaluations (2-item Patient Health Questionnaire scores revealed no depressive symptoms and negative results on all of the following: chest/abdomen/pelvic computed tomography, prior Papanicolaou tests per US Preventive Services Task Force guidelines, mammograms, fecal occult blood tests, colonoscopy, rectal biopsies, esophagogastroduodenoscopy, and gastric and small-bowel biopsies). The patient refused to consult with a psychologist or nutritionist. Her family also noted increasing social isolation on the part of the patient.

Her physical examination was remarkable for a height of 1.57 m, weight of 43.5 kg (felt to be falsely elevated because of the presence of an estimated 3 to 4 kg of fluid resulting from third spacing), and a body mass index of 17.5 kg/m² (the chart review demonstrated that her body mass index had not exceeded 18.7 kg/m² in the prior 7 years for which data were available). She was cachectic in appearance, had peripheral edema of the upper and lower extremities, and had new pressure sores on her back and buttocks. Electrocardiography demonstrated low voltage but otherwise only nonspecific T wave changes. Chest radiography demonstrated moderate bilateral pleural effusions. Laboratory findings were significant for depressed levels of hematocrit at 31.8% (35–47%), glucose at 69 mg/dL (70–99 mg/dL), calcium at 6.9 mg/dL (8.5–10.1 mg/dL), protein at 4.4 g/dL (6.8–8.8 g/dL), albumin at 1.4 g/dL (3.4–5.0 g/dL), and prealbumin at 9 mg/dL (15–45 mg/dL). She had an elevated brain natriuretic peptide concentration of 12,268 pg/mL (0–900 pg/mL) and normal values for alanine aminotransferase at 16 U/L (0–50 U/L), aspartate aminotransferase at 26 U/L (0–45 U/L), and thyroid-stimulating hormone at 1.81 mU/L (0.40–4.00 mU/L). Her echocardiogram demonstrated an ejection fraction of 50% to 55%, with mild valvular changes and moderate ascites. Pleural fluid analysis was transudative and negative for malignancy.

She was admitted, thoroughly evaluated, and prescribed enteral feedings with the support of nutrition services. A psychiatric evaluation reported a high likelihood of anorexia nervosa. When asked whether she looks in the mirror and thinks she is too thin, she responded with “I am what I am,” but she was not willing to elaborate further. She did admit to energy restriction, fear of weight gain, and disturbance in the way she experiences her body weight. She expressed denial of the seriousness of her current body weight and malnutrition at presentation, thereby fulfilling diagnostic criteria for anorexia nervosa (Table 1).

The patient developed refeeding syndrome with her enteral feedings and marked shifts in electrolytes, as well as significant problems with third spacing of fluids, including increasing pleural effusions and ascites and worsening peripheral edema. She underwent multiple thoracenteses to remove the pleural fluid in order to assist with her respiratory status. Despite intensive medical and nutritional care, she developed multiorgan failure and died.

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<th>Table 1. Diagnostic Criteria for Anorexia Nervosa. From the Diagnostic and Statistical Manual of Mental Disorders11</th>
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<td>1. Restriction of energy intake relative to requirements leading to a significantly low body weight in the context of age, sex, developmental trajectory, and physical health.</td>
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<td>2. Intense fear of gaining weight or becoming fat, even though underweight.</td>
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<td>3. Disturbance in the way in which one’s body weight or shape is experienced, undue influence of body weight or shape on self-evaluation, or denial of the seriousness of the current low body weight.</td>
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Discussion

Anorexia nervosa can present initially in older adults, and women in this population are most commonly affected. A review of the literature on eating disorders in older people showed the mean age of patients to be 68.6 years, 88% of whom are women, and 81% of all cases of eating disorders were diagnosed as anorexia nervosa. It is also noteworthy that 69% of cases of anorexia nervosa in this population were late onset, as opposed to the more common early onset. Our case seemed to be more consistent with late-onset anorexia nervosa. Despite case reports and literature reviews of late-onset eating disorders, a controversy exists as to whether eating disorders can initially manifest later in life or are a recurrence of an early-onset eating disorder. Patient records were reviewed for individuals aged >50 years who were admitted to national eating disorders center over a period of 10 years in an attempt to clarify this issue of eating disorders that present late, but the review found no cases of late-onset eating disorders in that population. The possibility that eating disorders in older persons are neither well recognized nor diagnosed, or that older persons are more adept at disguising their eating disorder, should be considered. Regardless of this controversy regarding late-onset eating disorders, physicians can expect to encounter older patients with eating disorders and should be aware of the potential to diagnose anorexia nervosa in this population.

The comorbidity of mood disorders with eating disorders is well recognized. Among older individuals with eating disorders, a particular association exists with comorbid depression. A recent meta-analysis of the relationship of eating pathology and depression demonstrated that eating disorders and depression are concurrent risk factors for each other. This is an associative relationship between eating disorders and depression, and not a causal one. Older community-dwelling women have also been shown to have a marked increased risk for any mood disorder in association with aberrant dieting or oral control behaviors (eg, cutting food into small pieces, taking longer to eat than others, displaying self-control around food). Among older women with anorexia nervosa admitted to an eating disorder center, high levels of both psychiatric and physical comorbidities have been demonstrated. We noted a history of generalized anxiety in our patient, as well as her family’s concern for increasing social isolation, both of which have been associated with eating disorders.

While few data are available on the management of older adults presenting with anorexia nervosa, the combination of both behavioral and pharmacologic treatment has been found to be the most successful. Caution is appropriate, however, as only 42% of patients reviewed were successfully managed with this treatment combination. Affected patients perceive the limited resources for the successful management of eating disorders in older patients, and this is a potential barrier to treatment. The challenge for physicians is to identify available resources for this unique population. Based on the review of our patient’s chart, finding appropriate resources for referral may have been an issue of concern. This also raises questions regarding the diagnosis of anorexia nervosa in older patients, as physicians will certainly be concerned about other organic causes of weight loss, and it is possible that a diagnosis may be delayed or missed as a result of these concerns.

The medical complications of anorexia nervosa are numerous and well known: cardiac arrhythmia, heart failure, aspiration pneumonia, respiratory failure, pancytopenia, renal failure, hypoglycemia, hypercortisolism, thyroid abnormalities, osteoporosis, hepatitis, pancreatitis, constipation, and cerebral atrophy. Yet, few data are available on the overall morbidity and mortality of eating disorders among older adults. Anorexia nervosa was found to cause or significantly contribute to mortality in up to 21% of deaths in older adults with the diagnosis. This suggests that anorexia nervosa contributes significantly to morbidity and mortality among this population of older people.

Conclusion

Older people may present with anorexia nervosa in medical practice. Awareness of this condition and its association with mood disorders, particularly major depression, is critical to facilitating a timely diagnosis and establishing a treatment plan. We suggest that if physicians suspect an eating disorder in their older patients, they start an early search for appropriate referral services. Furthermore, anorexia nervosa is a significant contributor to morbidity and mortality in affected older people.
References


