Evaluating and Treating Unintentional Weight Loss in the Elderly

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Elderly patients with unintentional weight loss are at higher risk for infection, depression and death. The leading causes of involuntary weight loss are depression (especially in residents of long-term care facilities), cancer (lung and gastrointestinal malignancies), cardiac disorders and benign gastrointestinal diseases. Medications that may cause nausea and vomiting, dysphagia, dysgeusia and anorexia have been implicated. Polypharmacy can cause unintended weight loss, as can psychotropic medication reduction (i.e., by unmasking problems such as anxiety). A specific cause is not identified in approximately one quarter of elderly patients with unintentional weight loss. A reasonable work-up includes tests dictated by the history and physical examination, a fecal occult blood test, a complete blood count, a chemistry panel, an ultrasensitive thyroid-stimulating hormone test and a urinalysis. Upper gastrointestinal studies have a reasonably high yield in selected patients. Management is directed at treating underlying causes and providing nutritional support. Consideration should be given to the patient's environment and interest in and ability to eat food, the amelioration of symptoms and the provision of adequate nutrition. The U.S. Food and Drug Administration has labeled no appetite stimulants for the treatment of weight loss in the elderly. (Am Fam Physician 2002;65:640-50. Copyright© 2002 American Academy of Family Physicians.)

Unintentional weight loss in elderly patients is associated with increased morbidity and mortality.

Consequences of Weight Loss

Involuntary weight loss can lead to muscle wasting, decreased immunocompetence, depression and an increased rate of disease complications. Various studies have demonstrated a strong correlation between weight loss and morbidity and mortality.

One study showed that nursing home patients had a significantly higher mortality rate in the six months after losing 10 percent of their body weight, irrespective of diagnoses or cause of death. In another study, institutionalized elderly patients who lost 5 percent of their body weight in one month were found to be four times more likely to die within one year.

Another study found a 13.1 percent annual incidence of involuntary weight loss in outpatient male veterans older than 64 years of age. The risk of mortality was significantly higher in the men who lost weight than in those whose weight did not decrease. In patients with Alzheimer’s disease, weight loss correlates with disease progression, and a weight loss of at least 5 percent is a significant predictor of death.

Pathophysiology

Regulation of food intake changes with increasing age, leading to what has been called a “physiologic anorexia of aging.” The amount of circulating cholecystokinin, a sati-
ating hormone, increases in the circulation. Other substances are also thought to cause satiety. A role for cytokines, including cachectin (or tumor necrosis factor), interleukin-1 and interleukin-6, has also been postulated. Physiologic changes in food intake regulation occur even in the presence of the increased body fat and increased rates of obesity that occur with age, some of which can be explained by altered patterns of physical activity.

Loss of lean body mass is common with increased age. Advancing age is also associated with a decrease in the basal metabolic rate, as well as changes in the senses of taste and smell. By the age of 65 years, approximately 50 percent of Americans have lost teeth, and resultant chewing problems can affect food intake.

Lower socioeconomic status and functional disabilities can also contribute to involuntary weight loss in older patients. Elderly patients with dementing illnesses who are dependent on others for daily care are more likely to suffer unintended weight loss than are those who are demented but less dependent or those who are not demented.

A loss of approximately 5 to 10 percent of body weight in the previous one to 12 months may indicate a problem in an elderly patient. This degree of weight loss should not be considered a normal part of the aging process.

### Differential Diagnosis

The differential diagnosis of unintended weight loss in the elderly can be extensive. The most commonly identified causes are depression, cancer and gastrointestinal disorders (Table 1).

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**TABLE 1**

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Incidence of diagnosis (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Outpatients (N = 45)</td>
</tr>
<tr>
<td>No identified cause</td>
<td>24</td>
</tr>
<tr>
<td>Psychiatric disorder (including depression)</td>
<td>18</td>
</tr>
<tr>
<td>Cancer</td>
<td>16</td>
</tr>
<tr>
<td>Benign (nonmalignant) gastrointestinal disorder</td>
<td>11</td>
</tr>
<tr>
<td>Medication effect</td>
<td>9</td>
</tr>
<tr>
<td>Neurologic disorder</td>
<td>7</td>
</tr>
<tr>
<td>Others (hypothyroidism, poor intake, tuberculosis, cholesterol phobia, diabetes mellitus, etc.)</td>
<td>15</td>
</tr>
</tbody>
</table>

*NA = not applicable.*

Adapted with permission from Gazewood JD, Mehr DR. Diagnosis and management of weight loss in the elderly. J Fam Pract 1998;47:19-25.
Psychiatric disorders account for unexplained weight loss in most elderly patients, other psychologic and social factors may be involved. No cause is found in about one quarter of patients. Causes of weight loss in residents of long-term care facilities may differ from those in ambulatory patients. In one study, depression was present in 36 percent of nursing home residents with unintentional weight loss. Overall, psychiatric disorders, including depression, account for 58 percent of the cases of involuntary weight loss in nursing home patients.

**Evaluation**

Common treatable causes of weight loss in elderly patients should be sought. The mnemonic “Meals on Wheels” is useful for remembering these etiologies (Table 2). Another approach is to distinguish among four basic causes of weight loss: anorexia, dysphagia, socioeconomic factors and weight loss despite normal intake. Often, these causes are interrelated. Whatever approach is used, the initial evaluation can yield a reason for weight loss in a large number of patients.

**HISTORY**

The first step in the history is to obtain information about the weight loss itself. It should be possible to determine if the patient is predominantly not hungry or is feeling nauseated (or even vomiting) after meals, if the patient is having difficulty eating or swallowing, or if the patient is having functional or social problems that may be interfering with the ability to obtain or enjoy food. A combination of these factors may be present.

An interview with a knowledgeable caregiver is essential because the elderly patient may deny or be unaware of the weight loss or the aforementioned difficulties. If the patient’s measured weights over time are not available, the caregiver may be able to estimate the amount of weight that the patient has lost through changes in the patient’s clothing size.

A nutritional assessment should be performed. The dietary history includes the availability of food, the patient’s use of nutritional (and herbal) supplements, the adequacy of the patient’s diet (amount of food consumed, balance of nutrients, etc.) and the patient’s daily caloric intake. The Mini Nutritional Assessment, a tool that has been validated in the elderly for measuring nutritional risk, can be used to collect some of this information (Figure 1). Once the shorter form of this instrument has been validated in the elderly, it may be a more practical tool for the family physician.

The nutritional assessment should also include a medical and surgical history. Functional and mental status should be reviewed with the patient and family members and other caregivers. The medical and surgical histories should specifically focus on the role of the following: previous gastrointestinal conditions or surgeries (looking for evidence

| **TABLE 2** |
| "Meals on Wheels": A Mnemonic for Common Treatable Causes of Unintentional Weight Loss in the Elderly |
| **M** | Medication effects |
| **E** | Emotional problems, especially depression |
| **A** | Anorexia nervosa, alcoholism |
| **L** | Late-life paranoia |
| **S** | Swallowing disorders |
| **O** | Oral factors (e.g., poorly fitting dentures, caries) |
| **N** | No money |
| **W** | Wandering and other dementia-related behaviors |
| **H** | Hyperthyroidism, hypothyroidism, hyperparathyroidism, hypoadrenalism |
| **E** | Enteric problems |
| **E** | Eating problems (e.g., inability to feed self) |
| **L** | Low-salt, low-cholesterol diet |
| **S** | Stones, social problems (e.g., isolation, inability to obtain preferred foods) |

## Mini Nutritional Assessment

Last name: __________________________ First name: _________________________ Middle initial: ____ Sex: _____ Date: ___________

Age: ___________ Weight (kg): ____________ Height (cm): ____________

Complete the form by writing the points in the boxes. Add the points in the boxes, and compare the total assessment to the malnutrition indicator score.*

### Anthropometric assessment

1. Body mass index (weight in kg ÷ height in m²):
   - a. <19 = 0 points
   - b. 19 to <21 = 1 point
   - c. 21 to <23 = 2 points
   - d. >23 = 3 points

2. Midarm circumference:
   - a. <21 cm = 0 points
   - b. 21 to ≤ 22 cm = 0.5 point
   - c. >22 cm = 1 point

3. Calf circumference:
   - a. <31 cm = 0 points
   - b. ≥ 31 cm = 1 point

4. Weight loss during past 3 months:
   - a. >3 kg = 0 points
   - b. Does not know = 1 point
   - c. 1 to 3 kg = 2 points
   - d. No weight loss = 3 points

### General assessment

5. Lives independently (not in a nursing home or hospital):
   - a. No = 0 points
   - b. Yes = 1 point

6. Takes more than three prescription drugs per day:
   - a. Yes = 0 points
   - b. No = 1 point

7. Has suffered psychologic stress or acute disease in the past 3 months:
   - a. Yes = 0 points
   - b. No = 1 point

8. Mobility:
   - a. Bed-bound or chair-bound = 0 points
   - b. Able to get out of bed or chair, but does not go out = 1 point
   - c. Goes out = 2 points

9. Neuropsychologic problems:
   - a. Severe dementia or depression = 0 points
   - b. Mild dementia = 1 point
   - c. No psychologic problems = 2 points

10. Pressure sores or skin ulcers:
    - a. Yes = 0 points
    - b. No = 1 point

### Dietary assessment

11. How many full meals does the patient eat daily?
    - a. One meal = 0 points
    - b. Two meals = 1 point
    - c. Three meals = 2 points

12. Selected consumption markers for protein intake:
    - a. At least one serving of dairy products (milk, cheese, yogurt) per day:
      - ☐ Yes ☐ No
    - b. Two or more servings of legumes or eggs per week:
      - ☐ Yes ☐ No
    - c. Meat, fish or poultry every day:
      - ☐ Yes ☐ No
    - 0 or 1 yes answers = 0 points
    - 2 yes answers = 0.5 point
    - 3 yes answers = 1 point

13. Consumes two or more servings of fruits or vegetables per day:
    - a. No = 0 points
    - b. Yes = 1 point

14. Decline in food intake over the past 3 months because of loss of appetite, digestive problems, or chewing or swallowing difficulties:
    - a. Severe loss of appetite = 0 points
    - b. Moderate loss of appetite = 1 point
    - c. No loss of appetite = 2 points

15. Cups of fluid (e.g., water, juice, coffee, tea, milk) consumed per day (1 cup = 8 oz):
    - a. <3 cups = 0 points
    - b. 3 to 5 cups = 0.5 point
    - c. >5 cups = 1 point

16. Mode of feeding:
    - a. Needs assistance to eat = 0 points
    - b. Self-fed with some difficulty = 1 point
    - c. Self-fed with no problems = 2 points

### Self-assessment

17. Does the patient think that he or she has nutritional problems?
    - a. Major malnutrition = 0 points
    - b. Moderate malnutrition = 1 point
    - c. No nutritional problem = 2 points

18. How does the patient view his or her health status compared with the health status of other people of the same age?
    - a. Not as good = 0 points
    - b. Does not know = 0.5 point
    - c. As good = 1 point
    - d. Better = 2 points

### Assessment total (maximum of 30 points):

*—Malnutrition indicator score: ≥24 points = well nourished; 17 to 23.5 points = at risk for malnutrition; <17 points = malnourished.

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**FIGURE 1. Mini Nutritional Assessment.**

*Adapted with permission from Guigoz Y, Vellas B, Garry PJ. Assessing the nutritional status of the elderly: the Mini Nutritional Assessment as part of the geriatric evaluation. Nutr Rev 1996;54:559-65.*
of malabsorption), renal, hepatic, cardiac and respiratory diseases (looking for evidence of organ failure), rheumatologic diseases (chronic inflammation), recurrent infections and previous major psychiatric illnesses.

A thorough review of medications may reveal that the patient is suffering from polypharmacy, which is known to interfere with taste and cause anorexia.\textsuperscript{18,22} Many individual medications have been associated with unintentional weight loss.\textsuperscript{13} These include some selective serotonin reuptake inhibitors (SSRIs), such as fluoxetine (Prozac).\textsuperscript{23} Other SSRIs may have a lesser anorectic effect, but patients taking those drugs should still be followed closely. Sedatives and narcotic analgesics may interfere with cognition and the ability to eat.\textsuperscript{21} A reduction in the dosage of psychotropic medications may also cause weight loss, possibly by unmasking an underlying disorder such as anxiety or depression.\textsuperscript{15} The effects of selected medications associated with unintentional weight loss are listed in Table 3.\textsuperscript{18,22,24}

A review of systems can reveal problems with specific organ systems. Questions directed at identifying symptoms related to the pulmonary and digestive systems are important because lung and gastrointestinal cancers are the malignancies most likely to be implicated in unexpected weight loss. Prostate and breast cancers are also prevalent in the elderly, and symptoms related to those malignancies should also be sought.

Benign (nonmalignant) gastrointestinal disorders, such as ulcers and cholecystitis, have been implicated as causes in 11 to 17 percent of patients with undesired weight loss.\textsuperscript{14,16} Therefore, patients should also be asked about indigestion, reflux symptoms, abdominal pain and changes in bowel habits.

The use of formal screening instruments for depression, such as the Geriatric Depression Scale,\textsuperscript{25} may be necessary in the elderly patient with unintentional weight loss. One study,\textsuperscript{26} although not performed in the elderly, found that simply asking the patient...
if he or she is depressed and has recently lost pleasure in doing things can reliably screen for depression.

**PHYSICAL EXAMINATION**

The physical examination of an elderly patient with unintentional weight loss is directed by the information gathered during the history-taking process. It is particularly important to evaluate the oral cavity and the respiratory and gastrointestinal systems.

Anthropometric measurements, specifically height and weight, are of prime importance and should be compared to minimum and maximum adult weights. The patient’s body mass index (BMI) can be calculated by dividing the patient’s weight in kilograms by the square of the patient’s height in meters. In one study it was found that a BMI of less than 22 kg per m² in women and less than 23.5 in men is associated with increased mortality. In another study it was found that the optimal BMI in the elderly is 24 to 29 kg per m². Because of difficulty in determining height in some elderly patients (e.g., those who are bed-bound or wheelchair-bound), BMI is less commonly used than weight.

An assessment of cognitive function and mood is also warranted. As mentioned previously, formal assessment of mood may be necessary, particularly if the initial screen for depression is positive.

Often, clues to the etiology of unintentional weight loss can be obtained by watching a patient eat part of a meal. For example, the patient may be distracted by stimuli in the room or by too many items of food on the plate. This is especially true of the patient with dementia. The patient with neuromuscular or other functional limitations may be unable to move adequately to feed himself or herself.

**DIAGNOSTIC STUDIES**

Although unexplained weight loss in the elderly can have myriad causes, an undirected (“shotgun”) approach to laboratory tests and other diagnostic studies is rarely fruitful. Initial targeted studies can determine the cause in many patients.

The findings of the history and physical examination guide the initial diagnostic assessment. Some diagnostic modalities, such as computed tomographic (CT) scanning, have particularly low yields. In one series, CT scanning provided no new information beyond confirming one cancer that was already suspected. In the same series, diagnostic yields (positive tests) were highest for fecal occult blood testing (18 percent), sigmoidoscopy (18 percent), thyroid function testing for both hyperthyroidism and hypothyroidism (24 percent), upper endoscopy (40 percent) and upper gastrointestinal series (44 percent).

A reasonable initial panel of tests in the elderly patient with unintentional weight loss includes the following: a fecal occult blood test to screen for cancer; a complete blood count to look for infection, deficiency anemia or lymphoproliferative disorder; a chemistry profile to look for evidence of diabetes mellitus, renal dysfunction or dehydration; an ultrasensitive thyroid-stimulating hormone test to look for hypothyroidism or hyperthyroidism; and a urinalysis to look for evidence of infection, renal dysfunction or dehydration. Upper gastrointestinal studies (radiography or endoscopy) may be warranted in patients with symptoms referable to the gastrointestinal system or in patients with persistent weight loss.

Although albumin and cholesterol levels, as well as lymphocyte counts, may help to establish a diagnosis of malnutrition, these determinations do not contribute to finding the etiology of unintended weight loss. Open wounds, nephrotic syndrome, infections and other conditions can also cause low serum albumin levels. Hence, a patient with a low
albumin level is not necessarily malnourished or losing weight. Similarly, prealbumin and transferrin levels may reflect nutritional status, but they can also be abnormal in elderly patients with chronic illnesses.29

If the decision is made to provide nutritional supplementation in a patient with unintended weight loss, the serum prealbumin, transferrin or albumin level can be used to guide supplement selection. For example, a patient with weight loss and depleted visceral protein stores, as reflected in a low serum albumin level, may need a supplement with a high protein content.

**Evaluation in the Long-Term Care Facility**

Severe nutritional problems are often found in residents of assisted-living facilities or nursing homes and may, in fact, be the reason for long-term care placement. In evaluating weight loss in the patient who resides in a long-term care facility, the physician may have to address some issues that can be unique to institutional care.

Interviews with the caregivers and the dietary staff of the facility are crucial to understanding the problem. The staff should have a good grasp of the patient’s ability to chew foods of various consistencies, to feed himself or herself, and to attend to the various tasks involved in eating.

Many facilities have high rates of staff turnover or inconsistent staffing levels, and mealtimes may be affected. The staff may feel pressure from regulatory agencies to feed residents within a certain amount of time. Consequently, the total caloric intake of a patient may be compromised.

Creative strategies are often needed when weight loss is due to environmental issues. For example, a noisy dining area may be distracting to the patient with dementia. One strategy would be to have the patient’s meals served in a quieter room, or at a slightly different time, to minimize confusing situations. Also, family members may sometimes be more successful than nursing assistants in encouraging a patient to eat.

Although the setting may be contributory, the physician should not simply assume that environmental factors are responsible for unintentional weight loss in an institutionalized elderly patient. A thorough evaluation should still be performed.

**Treatment**

The treatment of unintentional weight loss is directed at the underlying causes. While the work-up is proceeding or if a cause is not well defined, the goal is to prevent further weight loss. Initiating nutritional support early may help to avoid some of the complications related to weight loss.28

The contributions of dietitians, speech therapists (for oropharyngeal and swallowing evaluations) and social services personnel cannot be overestimated because the efforts of these staff can improve many strategies to increase food intake. In the long-term care facility, the food service manager and caregivers can often offer individualized suggestions for facilitating food intake.

Because restricted diets are often unpalatable, one early intervention is to remove dietary limitations (e.g., restrictions on intake of salt or high-cholesterol foods). Patients with diabetes mellitus may also be given a less restrictive diet. In some instances, weight loss in these patients with diabetes mellitus may reflect overzealous blood glucose control. However, blood sugar and glycosylated hemoglobin levels should continue to be monitored in patients with diabetes mellitus.

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**The Author**

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Adding flavor enhancers that amplify the intensity of food odor may be useful in patients with hyposmia. Pureed foods and thickened liquids may be needed in patients with dysphagia.

Patients may benefit simply from being offered frequent small servings of foods that they like. Large portions may be overwhelming and may actually discourage intake.

When possible, physical exercise and even physical therapy should be encouraged because increased activity has been shown to promote appetite and food intake. One study found that caloric intake was greater in patients who received both nutritional supplements and exercise than in patients who received only supplements.

When liquid calorie supplements are used, they should not be given with meals. Total caloric intake does not improve with this method of administration. Liquid supplements are preferable to solids. With liquids, gastric emptying time is quicker, and total caloric intake is more likely to be maximized.

MEDICATIONS

Several drugs have been used to promote weight gain. However, none are specifically indicated for the treatment of weight loss in elderly patients, and few have been studied in this population. The U.S. Food and Drug Administration has not labeled any of these drugs for use in elderly patients with weight loss.

Cyproheptadine (Periactin) is an antihistaminic and antiserotonergic medication that causes a mild increase in appetite. In one study, patients (median age: 65 years) who received cyproheptadine had a decrease in their rate of weight loss but no weight gain. Drowsiness and dizziness are side effects that may make the use of this medication particularly problematic in elderly patients.

Metoclopramide (Reglan), a prokinetic agent, may relieve nausea-induced anorexia. However, this drug can cause serious dystonia and precipitate parkinsonian symptoms in elderly patients. Metoclopramide is also associated with a number of drug interactions.

Anabolic steroids and agents with anabolic properties (e.g., oxandrolone [Oxandrin] and ornithine) have been used with some success in patients whose cognitive deficits are not well defined.

Megestrol (Megace) has been used successfully to treat cachexia in patients with AIDS or cancer. When given in a dosage of at least 320 mg per day, megestrol has produced weight gain, but side effects of edema, constipation, and delirium may limit its usefulness. Lower dosages may be effective for stimulating weight gain in frail elderly patients, although this approach needs to be tested in randomized controlled trials. The hyperphagic effects of megestrol may continue after the medication is stopped. In a study in which elderly patients received megestrol (800 mg per day) or placebo, appetite and sense of well-being improved in the treatment group during the three-month study; however, it was not until after the study medication was stopped that a significant weight gain was seen in the treatment group compared with the placebo group.

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Management of Weight Loss in the Elderly

Weight loss confirmed and of concern*

Assessment:
- History and physical examination
- Medication review
- Directed laboratory testing

Probable or definite cause identified
- Treat identified cause.

No weight gain
- Continue treatment and provide nutritional support.

Weight gain
- Continue treatment measures until goal weight is reached.
- Try discontinuing supplements, orexigenic agents or tube feedings.
- Observe the patient for resumed weight loss.

No cause identified or condition not treatable
- Provide nutritional support:
  - Eliminate dietary restrictions.
  - Provide frequent small meals.
  - Allow unlimited intake of favorite foods.
  - Provide nutritional supplements.
  - Others (see text)

No weight gain
- Consider orexigenic medication.

No weight gain
- Consider tube feeding.

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*—Weight loss of concern is generally defined in several ways: (1) loss of 5 to 10 percent of body weight in the previous 1 to 12 months or (2) loss of 2.25 kg (5 lb) in the previous 3 months. Nursing home guidelines require evaluation if there is a 10 percent loss in the previous 6 months, a 5 percent loss in the previous month or a 2 percent loss in the previous week.

FIGURE 2. An approach to the management of the elderly patient with weight loss.
to treat wasting syndrome in patients with AIDS and cachexia in patients with cancer. However, these agents have not been tested in the elderly.

Recombinant human growth hormone (somatotropin [Serostim]) can increase lean body mass. However, this hormone is extremely expensive, and its adverse effects include carpal tunnel syndrome, headache, arthralgias, myalgias and gynecomastia.

Although medications may help promote appetite and weight gain in an elderly patient with unintentional weight loss, drugs should not be considered first-line treatment. Even if drugs are successful in inducing weight gain, long-term effects on quality of life are unknown.

FEEDING TUBES

Continued weight loss necessitates a discussion with the patient or family members about whether long-term tube feeding is desired. The physician needs to understand the patient’s wishes about prolonging life and maximizing function and comfort. The patient or proxy also needs to be aware of the risks and benefits of tube feeding. One recent analysis showed that tube feeding in elderly patients with dementia does not promote weight gain (or prevent aspiration or lengthen life), even when adequate calories are provided.

Final Comment

The evaluation of unexplained weight loss in the elderly sometimes yields no cause other than “unexplained.” If a physical cause for the weight loss exists, it usually becomes evident within six months. Consequently, continued weight loss should be monitored, even when the initial evaluation does not supply a diagnosis. An algorithm for the management of unintentional weight loss in the elderly patient is provided in Figure 2.

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