

Clinical Guide to Prevent and Manage Malnutrition in Long-Term Care

FOR NURSING STAFF AND DIETARY STAFF AND DIETITIANS (EVALUATE, DOCUMENT AND TREAT)



The American Dietetic Association supports the Clinical Guide to Prevent and Manage Malnutrition in Long-Term Care. Representatives from the American Dietetic Association were instrumental in its development.

These Guidelines were developed by the Council for Nutrition convened by Programs in Medicine under a grant from Bristol-Myers Squibb. A special committee of The Gerontological Society of America (GSA) served as critical reviewers and provided input and modification of the final Guidelines. While GSA does not endorse specific clinical measures, we support the principles underlying these Guidelines and their potential to improve nutrition in the nursing home.

Trigger Conditions

Involuntary 5% weight loss in 30 days or 10% in 180 days or less
or
BMI ≤ 21
or
Resident leaves 25% or more of food uneaten at two thirds of meals
(Assess over 7 days, based on 2000 cal/day)

Suggestions for family:

- Visit at meal time
- Help feed
- Discuss alternate food sources
- Review food preferences
- Recommend favorite foods or comfort foods
- Discuss quality of life issues and treatment goals

This is a tool to assist in compliance. This is not an endorsement of the HCFA mandated criteria. It should be noted that because malnutrition in long-term care is multifactorial, any treatment that is initiated should be monitored for efficacy, and nursing interventions should proceed simultaneously with medical interventions.

Put on weekly weight monitoring program/
Proceed with documentation utilizing Nursing Nutritional Checklist

Quality indicator conditions:

- Fecal impactions, Infection (UTI, URI, pneumonia, GI)
- Tube feeding, decline in ADEs or pressure ulcer on low risk resident

Checklist for nurse to provide physician/dietitian:

- Temperature
- Constipation
- Fecal impaction
- Drug list
- Mood/behavior
- Food/fluid intake
- Vomiting/nausea
- Indigestion
- Skin condition
- Swallowing problem
- Appetite assessment
- Infection – UTI, URI, GI
- Pain
- Albumin < 3.4 g/dL
- Cholesterol < 160 mg/dL
- Hgb < 12 g/dL
- Serum transferrin < 180*

* Included in MDS

Physician considerations:

- Albumin
- Complete blood count
- Blood urea nitrogen
- Creatinine
- Hemoglobin
- Hematocrit
- Serum transferrin
- Cholesterol
- Consultation by dietitian
- Consult Clinical Guide for Physicians, Pharmacists, and Dietitians

Check hydration status
minimum 1500 cc fluid/day unless contraindicated
(For tube feeding patients, approximately 75% of the total tube feeding volume should be considered free fluid)

Food considerations:

- Stop therapeutic diet
- Food preferences (e.g. ethnic)
- Consistency changes based on assessed needs
- Offer meal substitutes
- Snacks (between meals and HS)
- Medications not given at meal time
- Supplements not given at meal time
- Food served at proper temperature
- Food palatability (consider taste enhancers)
- Encourage family involvement in feeding

Other:

- Taste/sensory changes
- Ill-fitting dentures, missing teeth
- Motor agitation, tremors, wandering

Environmental considerations:

- Surroundings quiet and calm, comfortable
- Positive dining room atmosphere
- Well lighted
- Caregivers are friendly and polite
- Residents are happy with the meals and meal service
- Staff directs conversation to resident at meal time
- Dining room service not rushed
- Assistance encouraged
- Prompt service and assistance
- Compatible companions

Inform physician/dietitian

Food/environmental considerations

Needs feeding assistance

Meal time assistance, restorative dining program

Dysphagia/aspiration

Swallowing evaluation/food consistency change, thickened liquids, special feeding program, enteral/parenteral feeding

Caloric-dense foods
Exercise program for appetite stimulation

Between-meal liquid calorically dense supplements

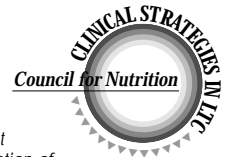
While presented for simplicity as a linear guide in two parts, many of the suggestions can be done simultaneously, and the order in which this approach is taken can be varied dependent on individual resident needs.

Consider other treatment options, e.g. hospitalize or palliative care

Document reason

Nursing Nutritional Checklist (for use in Care Planning)

The American Dietetic Association supports the Nursing Nutritional Checklist (for use in Care Planning).
Representatives from the American Dietetic Association were instrumental in its development.



This Nursing Nutritional Checklist (for use in Care Planning) was developed by the Council for Nutrition convened by Programs in Medicine under a grant from Bristol-Myers Squibb. A special committee of The Gerontological Society of America (GSA) served as critical reviewers and provided input and modification of the final Checklist. While GSA does not endorse specific clinical measures, we support the principles underlying this Checklist and its potential to improve nutrition in the nursing home.

Problem List (check all that apply)

- 1. Patient has $\geq 5\%$ involuntary weight loss in 30 days?
- 2. Patient has $\geq 10\%$ involuntary weight loss in 180 days or less.
- 3. BMI is ≤ 21 . ($703 \times \text{weight in lbs} / \text{height in inches}^2$ or weight in kilograms/height in meters²)
- 4. Resident leaves 25% or more food on tray? (in last 7 days)

5. Quality Indicators — Does patient have:
- A. Fecal impaction in last 7 days
 - B. Infection (UTI, URI, Pneumonia, GI) in last 7 days
 - C. Tube feeding
 - D. Functional ADL decline
 - E. Development of pressure ulcer in low risk patient

- 6. Patient takes in $\leq 1500\text{cc}$ fluid/day for the last 7 days?
Is patient on fluid restriction?

- 7. Available labwork completed in the last 30 days:
- | | |
|------------------|----------------------|
| Hgb _____ | Albumin _____ |
| Hct _____ | Cholesterol _____ |
| Serum WBC _____ | U/A: _____ |
| Sodium _____ | Urine WBC _____ |
| Potassium _____ | Spec. Gravity _____ |
| Glucose _____ | Leuk. Esterase _____ |
| BUN _____ | Other _____ |
| Creatinine _____ | |

8. Nursing assessment of physical/psychological problems
- A. Skin (pressure ulcers and skin tears)
 - B. Presence of fever (2° above baseline)
 - C. Presence of diarrhea
 - D. Presence of constipation
 - E. Takes drugs other than multivitamins/minerals
 - F. Symptoms of depression/anxiety
 - G. Loss of usual appetite
 - H. Presence of nausea/vomiting
 - I. Presence of dysphagia/choking
 - J. Ill-fitting dentures, missing teeth, periodontal disease

- 9. Not satisfied with food currently offered (for example, ethnic preferences)

- 10. Patient needs meal time assistance

- 11. Patient has motor agitation, tremors, or wanders

- 12. Presence of environmental distractions or meal time environment concerns

- 13. Inadequate lighting in the dining room

- 14. Patient needs 30–60 minutes to eat

- 15. Patient is unable to tolerate current food consistency

- 16. Supplements are given at meal time

- 17. Medications are given at meal time

- 18. Impaired visual acuity

- 19. Impaired hearing

- 20. Patient has a decline in taste and smell

Suggested Action Plan (check when completed)

- 1-4. Monitor weight weekly.
Continue to step #5 on problem list

- 5.
- A. Implement bowel program
 - B. Get physician order for U/A
 - C. Contact dietitian for assessment
 - D. Consider OT/PT assessment
 - E. Implement skin program

- 6. Develop systematic plan to ensure adequate fluid intake (e.g., 300 mL with meals and 240 mL between meals)

- 7. Notify physician of values

- 8.
- A. Implement skin program
 - B. Implement facility protocol
 - C. Implement facility protocol
 - D. Implement facility protocol
 - E. Contact pharmacy consultant for drug review
 - F. Evaluate for depression/anxiety (short geriatric mini depression scale)
 - G. Implement care plan to increase appetite
 - H. Implement facility protocol
 - I. Contact dietitian for evaluation
 - J. Contact dentist or dental technician

- 9. Stop therapeutic diets and provide preferred foods/food substitutions

- 10. Provide timely, polite assistance during dining
- Provide tray set up
- Provide partial assistance/supervision (evaluate resident/staff ratio and supervision by licensed professional staff)
- Provide total assistance (consider resident/staff ratio and supervision by licensed professional staff)
- Consider training staff to provide meal time assistance

- 11. Consider OT evaluation
- Provide meal time assistance
- Provide self-help feeding devices
- Offer finger foods

- 12. Minimize environmental distractions
- Provide compatible companions

- 13. Evaluate location in dining room

- 14. Implement dining program, e.g. special area to eat for impaired residents or two meal time sessions

- 15. Contact dietitian for texture screen

- 16. Give liquid supplements in a pattern that optimizes nutrient intake

- 17. Contact pharmacist for appropriate administration time

- 18. Assure resident is wearing clean glasses at meal time
- Provide meal time assistance (see #10)

- 19. Ensure that hearing aid is in place and working at meal time

- 20. Season foods
- Serve food at proper temperature

When problem list is completed, contact physician, dietitian and pharmacist as appropriate with suggested action plan.

Completed by: _____ Date: _____

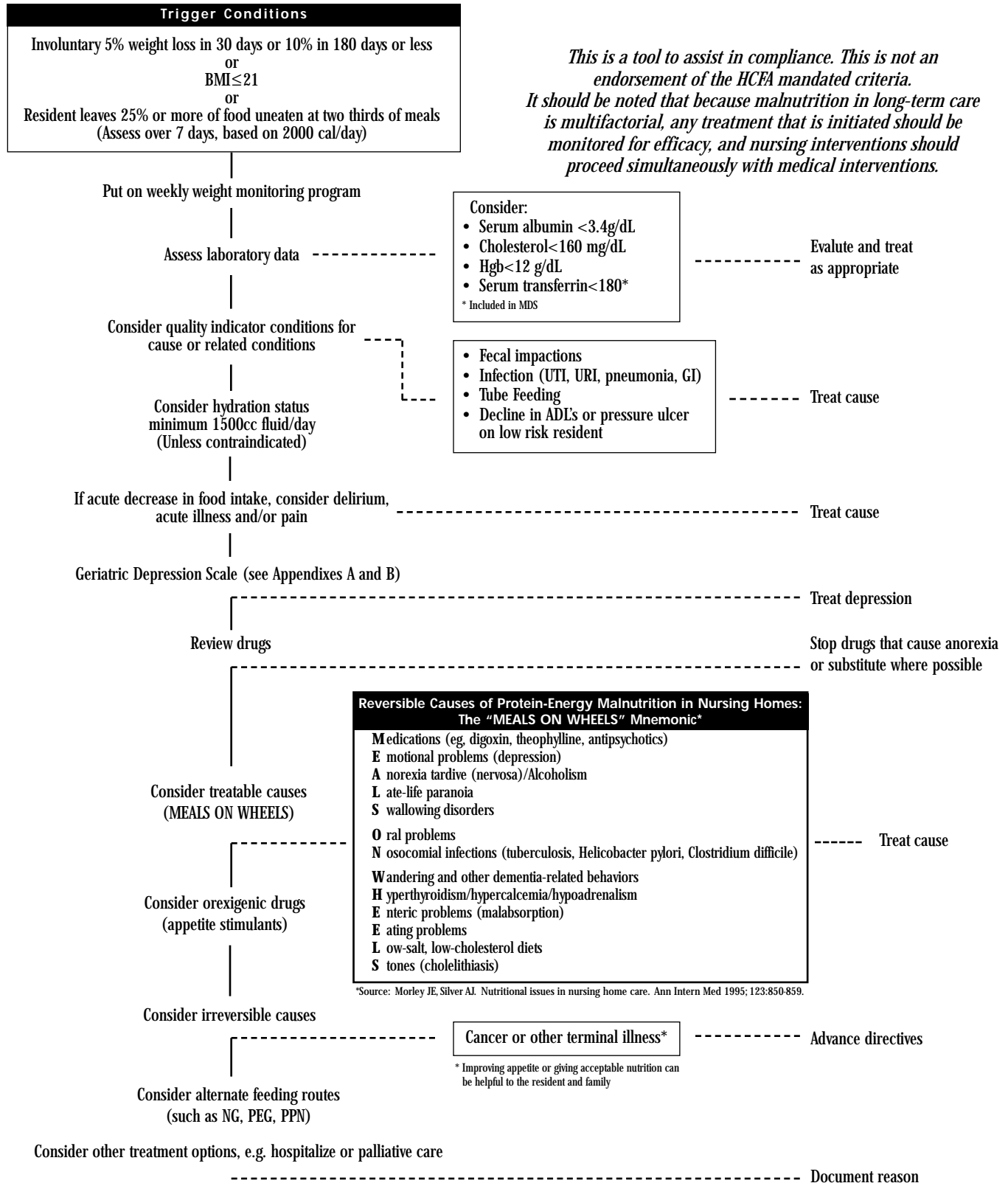
Clinical Guide to Prevent and Manage Malnutrition in Long-Term Care

FOR PHYSICIANS, PHARMACISTS, AND DIETITIANS (EVALUATE, DOCUMENT AND TREAT)



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*Source: Morley JE, Silver AJ. Nutritional issues in nursing home care. Ann Intern Med 1995; 123:850-859.

* Improving appetite or giving acceptable nutrition can be helpful to the resident and family

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Appendix A

Geriatric Depression Scale (*Short Form*)

Answers indicating depression are highlighted.

Each bold answer counts as 1 point; scores greater than 5 indicate probable depression.

	Yes	No		Yes	No
1. Are you basically satisfied with your life? . . . . .	.yes	/ no	9. Do you prefer to stay at home, rather than going out and doing new things? . . . . .	.yes	/ no
2. Have you dropped many of your activities and interests? . . . . .	.yes	/ no	10. Do you feel you have more problems with memory than most? . . . . .	.yes	/ no
3. Do you feel that your life is empty? . . . . .	.yes	/ no	11. Do you think it is wonderful to be alive? . . . . .	.yes	/ no
4. Do you often get bored? . . . . .	.yes	/ no	12. Do you feel pretty worthless the way you are now? . . . . .	.yes	/ no
5. Are you in good spirits most of the time? . . . . .	.yes	/ no	13. Do you feel full of energy? . . . . .	.yes	/ no
6. Are you afraid that something bad is going to happen to you? . . . . .	.yes	/ no	14. Do you feel that your situation is hopeless? . . . . .	.yes	/ no
7. Do you feel happy most of the time? . . . . .	.yes	/ no	15. Do you think that most people are better off than you are? . . . . .	.yes	/ no
8. Do you often feel helpless? . . . . .	.yes	/ no			

Reprinted with permission from: Sheikh JI, Yesavage JA. Geriatric Depression Scale (GDS): Recent evidence and development of a shorter version. *Clinical Gerontologist* 1986;5:165.

Appendix B

Cornell Scale for Depression in Dementia

Rating should be based on symptoms and signs occurring during the week before interview.

No score should be given if symptoms result from physical disability or illness.

Scoring system: a=Unable to evaluate 0=Absent 1=Mild to intermittent 2=Severe

A. Mood-Related Signs

- | | | | | | |
|---|---|---|---|----|---|
| a | 0 | 1 | 2 | 1. | Anxiety: anxious expression, rumination, worrying |
| a | 0 | 1 | 2 | 2. | Sadness: sad expression, sad voice, tearfulness |
| a | 0 | 1 | 2 | 3. | Lack of reaction to present events |
| a | 0 | 1 | 2 | 4. | Irritability: annoyed, short tempered |

B. Behavioral Disturbance

- | | | | | | |
|---|---|---|---|----|---|
| a | 0 | 1 | 2 | 5. | Agitation: restlessness, hand wringing, hair pulling |
| a | 0 | 1 | 2 | 6. | Retardation: slow movements, slow speech, slow reactions |
| a | 0 | 1 | 2 | 7. | Multiple physical complaints (score 0 if gastrointestinal symptoms only) |
| a | 0 | 1 | 2 | 8. | Loss of interest: less involved in usual activities (score only if change occurred acutely, i.e., in less than one month) |

C. Physical Signs

- | | | | | | |
|---|---|---|---|-----|---|
| a | 0 | 1 | 2 | 9. | Appetite loss: eating less than usual |
| a | 0 | 1 | 2 | 10. | Weight loss (score 2 if greater than 5 pounds in one month) |
| a | 0 | 1 | 2 | 11. | Lack of energy: fatigues easily, unable to sustain activities |

D. Cyclic Functions

- | | | | | | |
|---|---|---|---|-----|---|
| a | 0 | 1 | 2 | 12. | Diurnal variation of mood: symptoms worse in the morning |
| a | 0 | 1 | 2 | 13. | Difficulty falling asleep: later than usual for this individual |
| a | 0 | 1 | 2 | 14. | Multiple awakening during sleep |
| a | 0 | 1 | 2 | 15. | Early morning awakening: earlier than usual for this individual |

E. Ideational Disturbance

- | | | | | | |
|---|---|---|---|-----|---|
| a | 0 | 1 | 2 | 16. | Suicidal: feels life is not worth living |
| a | 0 | 1 | 2 | 17. | Poor self-esteem: self-blame, self-depreciation, feeling of failure |
| a | 0 | 1 | 2 | 18. | Pessimism: anticipation of the worst |
| a | 0 | 1 | 2 | 19. | Mood congruent delusions: delusions of poverty, illness or loss |

SCORE _____ Score greater than 12 is Probable Depression

Reprinted with permission from: Alexopoulos GS, Abrams RC, Young RC, Shamoin CA. Cornell Scale for Depression in Dementia. *Biol Psychiatry* 1988 Feb 1 23:3 271-84