

Malnutrition Care: Person-Centered Strategies to Improve Quality Outcomes

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Speaker Disclosure:

Amanda Goldman, MS, RD, LD, FAND System VP, Food and Nutrition Services CommonSpirit Health

- Employee:
- CommonSpirit Health

Board Member:

- Academy of Nutrition and Dietetics Board of Directors
- Dietitians in Business and Communications Dietetic Practice Group
- Foundation for a Healthy Kentucky Community Advisory Council
- International Food Manufacturers Association Healthcare Foodservice Leadership Council



Learning Objectives

- Understand how social isolation is associated with increased risk of malnutrition
- State examples of the impact of malnutrition on health & clinical outcomes
- Describe malnutrition intervention strategies that promote positive outcomes & enhance quality of life



Agenda

- Malnutrition & Isolation
- Impact of Malnutrition: Older Adults & Dementia
- Nutrition Intervention Strategies & Program Planning
- Enhancing the Dining Experience

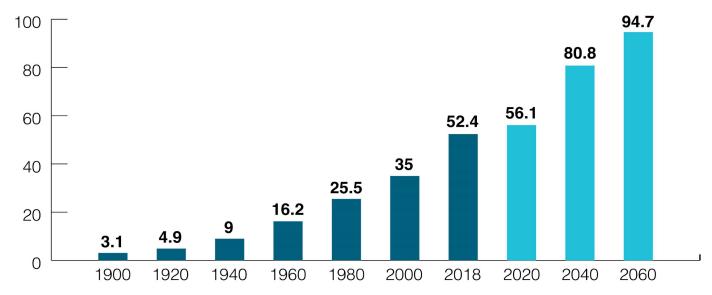


Older Adult Malnutrition & Isolation

Aging & the U.S. Population

The 65+
population
is expected
to grow
significantly

Number of Persons Age 65 and Older 1900 to 2060 (numbers in millions)



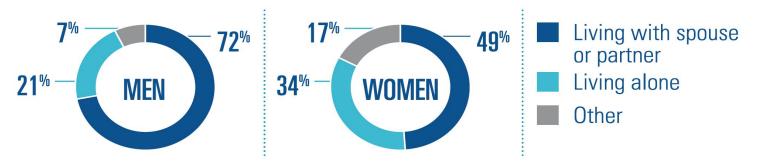
Note: Increments in years are uneven. Lighter bars (2020, 2040, and 2060) indicate projections.

Source: U.S. Census Bureau, Population Estimates and Projections

Source: Administration For Community Living Senior Profile 2019

Growing Social Isolation

Living Arrangements of Persons Age 65 and Older, 2019



Sources: U.S. Census Bureau, Current Population Survey, Annual Social and Economic Supplement 1967 to present



and social isolation among older adults is associated with an extra \$6.7 BILLION in Medicare spending each year



Rise in Malnutrition: Linkage with COVID-19

Isolation & loneliness are associated with a higher risk of developing malnutrition



- Diet & Food Quality
- Joy (or lack) of Eating



Food Insecurity: Feeding America Data

Hunger facts

44

United States are food insecure

13

million children in the United States are food insecure 49

million people turned to food programs in 2022 100%

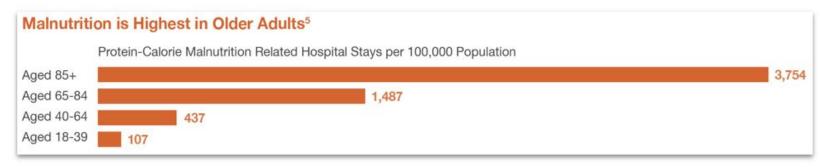
of U.S. counties have food insecurity



Nutrition & the U.S. Population



Up to **1 out of 2** older adults is either at risk of becoming or is malnourished³



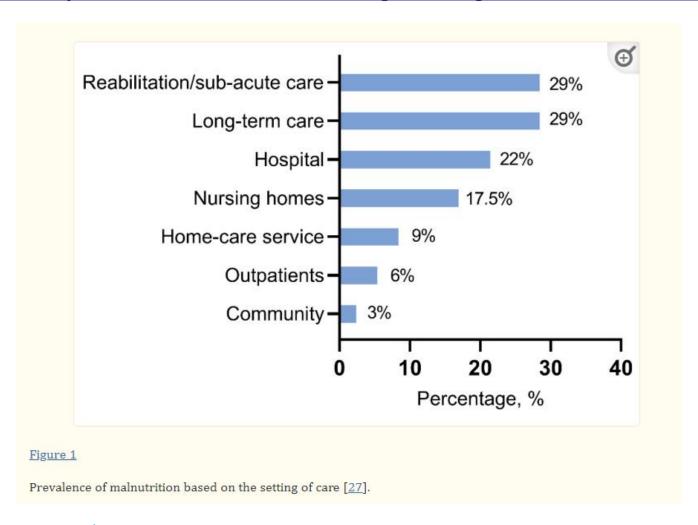
Malnutrition is intensified by the disparities and social isolation from COVID-19 pandemic.⁴
Additionally, nutrition status is a relevant factor influencing the outcomes of patients with COVID-19.⁵

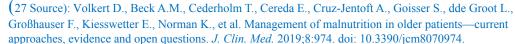




Prevalence of Malnutrition

"Malnutrition in Hospitalized Old Patients: Screening and Diagnosis, Clinical Outcomes, and Management"





Quality Measure: Weight Loss

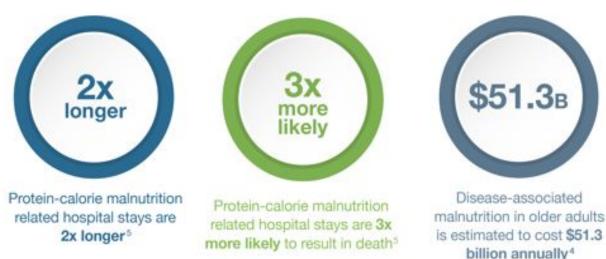


https://pixels.com/featured/red-exclamation-poir t-button-henrik-lehnerer.html

- Long-stay measure: Cumulative days
 equal to or longer than 101 days
- Average percentage of weight loss increased during pandemic across the U.S.
- Approximate two percentage point increase
 - Approximately >7.5% nationally

Malnutrition Increases Risk for Negative Health Outcomes

- Increased rates of morbidity & mortality
- Immune suppression & increased infection rates
- Decreased respiratory & cardiac function
- Longer length of hospital stay
- Higher readmission rates







Quality of Care Concerns

Hospital-Acquired Conditions

- Increases fall risk: Increased 2x
- Pressure sore development risk: Increased 2x

Hospital-Acquired Infections

- SSI risk: Increased 2.5x
- UTI risk: Increased 5x

Readmissions within 30 Days

- Increased risk of readmission by 3-4x
- Early nutrition intervention can decrease readmissions by ~25%







Improve Quality Care Outcomes with Better Nutrition

- THE IMPACT OF NUTRITION-FOCUSED QUALITY IMPROVEMENT INTERVENTIONS ON LENGTH OF STAY AND READMISSION RATES AMONG HOSPITALIZED MALNOURISHED PATIENTS
 - Principal Findings:
 - Decrease in LOS by almost 1 day
 - Small decrease in readmission rates
- IMPROVING MALNUTRITION IN HOSPITALIZED OLDER ADULTS: THE DEVELOPMENT, OPTIMIZATION, AND USE
 OF A SUPPORTIVE TOOLKIT
 - Summary:
 - Toolkit supports implementation of QI initiatives
 - Toolkit assists with identifying malnutrition care gaps

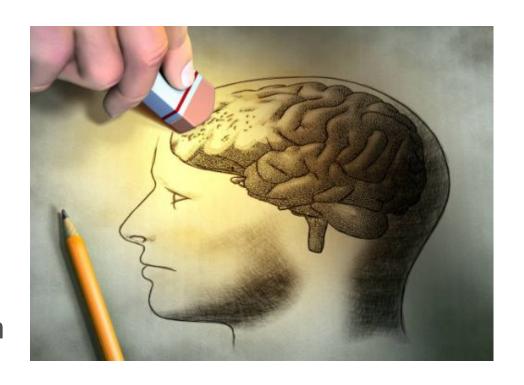
Impact of Malnutrition

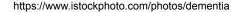
Older Adults, Dementia & Nutrition



Dementia & Nutrition

- Memory Care residents often experience challenges maintaining proper nutrition levels
- Understanding the factors that create these challenges is critical
- Weight loss is common in individuals with advanced dementia

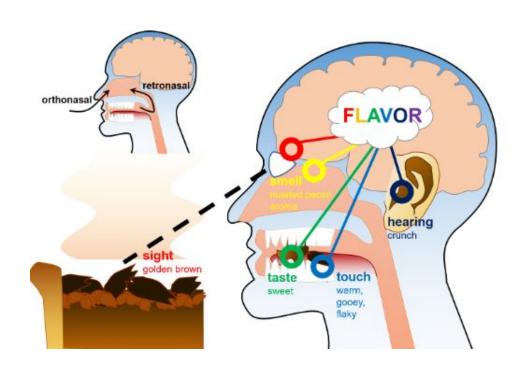






Changes in Food Preferences & Intake

- Damage to specific parts of the brain cause changes in sensory processing:
 - Taste perception
 - Sense of smell
- These changes may lead to:
 - Sudden change in favorite foods
 - Requests for extra salt & sugar
 - Less diet variety
- Motor difficulties
 - Change in dexterity
 - Chewing & swallowing issues
- Eating behaviors
 - Refusing to eat
 - Playing with food
 - Change in appetite (medication-related)



https://sitn.hms.harvard.edu/flash/2016/brain-tricks-to-make-food-taste-swe eter-how-to-transform-taste-perception-and-why-it-matters/







https://www.shutterstock.com/search/quality-life

- Malnutrition increases the risk of poor health outcomes and increases the cost of care to the overall healthcare system
- Healthcare organizations received financial incentives to improve clinical outcomes & decrease costs
- Strategic focus: Prevent and care for malnutrition to improve an individual's health and quality of life



Nutrition Intervention Strategies

Malnutrition Programs & the Interdisciplinary Team



Getting Started



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So you & your team have decided to implement or enhance a program that cares for those with malnutrition:

What is your next step?

Nutrition Integration in Care Transitions



Project Management & Scope



Improve quality of care by creating a program that synchronizes recognition, documentation & intervention for individuals with malnutrition:

- Identify stakeholders
- Identify process & create a flexible timeline
- Incorporate a system for monitoring & evaluation

https://www.istockphoto.com/illustrations/monitoring-and-evaluation

The Interdisciplinary Team



https://www.pexels.com/search/project%20management/

- Registered Dietitian
- Nursing
- Physician
- Administrative Leader
- Quality Manager
- Activities Leader
- PT/OT/SLP
- CDI/Coder
- Community Partners



Program Effectiveness



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Ensure training for interdisciplinary team

- Food insecurity process (building questions into initial nursing screen, i.e. "how often do you run out of food")
- Nutrition screening process (RN & RD obtaining nutrition history regarding intake and weight loss)
- NFPA (Comprehensive training for all clinical RDs on conducting NFPE correctly) & interventions (Liberalize diet, early use of ONS, SLP evaluation to ensure proper diet consistency level)
- Clinical documentation & coding (RD note linking back to provider note

 can be accomplished through EMR, notifying coders of malnutrition, utilizing
 team member collaboration to ensure that recommendations are followed
 after discharge)
- Ensure proper monitoring system
 - Audit tools
 - Consistent evaluation process
- Data usage to affect change

Diagnostic Criteria for Malnutrition



- Unintentional Weight Loss (defining factors: how much wt loss/time period, etc.)
- Decreased Nutrient Intake (specific amount of decreased po/time period)
- Nutrition-Focused Physical Assessment
 - Subcutaneous Fat Loss
 - Lean Body Mass Loss
 - Fluid Accumulation
 - O Reduced Grip Strength

Defining acute, chronic, moderate/severe, disease vs environmental

https://stock.adobe.com/search?k=red+checkmark

https://aspenjournals.onlinelibrary.wiley.com/doi/10.1002/jpen.1806
https://aspenjournals.onlinelibrary.wiley.com/doi/full/10.1177/0148607112440285



Academy & ASPEN Criteria

Academy/ASPEN Clinical Characteristics That the Registered Dietitian Nutritionist (RDN) Can Obtain and Document to Support the Diagnosis of Malnutrition in Adults

Food and Nutrient Intake (Kondrup, 2001). Malnutrition is the result of inadequate food and nutrient intake or assimilation; thus recent intake compared with estimated requirements is a primary criterion defining malnutrition. The RDN obtains or reviews the food and nutrition history, estimates optimum energy needs, compares energy needs with estimates of energy consumed, and reports inadequate intake as a percentage of estimated energy requirements over time.

Malnutrition in the Context	Malnutrition in the Context	Malnutrition in the Context of Social or	
of Acute Illness or Injury	of Chronic Illness	Environmental Circumstances	

Nonsevere (Moderate) Malnutrition	Severe Malnutrition	Nonsevere (Moderate) Malnutrition	Severe Malnutrition	Nonsevere (Moderate) Malnutrition	Severe Malnutrition
< 75% of estimated energy requirement for > 7 days	≤ 50% of estimated energy requirement for ≥ 5 days	< 75% of estimated energy requirement for ≥ 1 month	≤ 75% of estimated energy requirement for ≥ 1 month	< 75% of estimated energy requirement for ≥ 3 months	≤ 50% of estimated energy requirement for 1 ≥ month

Interpretation of Weight Loss (<u>Blackburn</u>, 1977; <u>Klein</u>, 1997; <u>Rosenbaum</u>, 2000; <u>Keys</u>, 1948). The RDN evaluates weight in light of other clinical findings, including the presence of underhydration or overhydration. The RDN assesses weight change over time reported as a percentage of weight lost from baseline.

Nonsevere (Moderate) Malnutrition	Severe Malnutrition	Nonsevere (Moderate) Malnutrition	Severe Malnutrition	Nonsevere (Moderate) Malnutrition	Severe Malnutrition
% Time	% Time	% Time	% Time	% Time	% Time
1-2%: 1 week	> 2%: 1 week	5%: 1 month	> 5%: 1 month	5%: 1 month	> 5%: 1 month
5%: 1 month	> 5%: 1 month	7.5%: 3	> 7.5%: 3	7.5%: 3 months	> 7.5%: 3



Malnutrition Risk



https://www.dreamstime.com/malnutrition-word-concept-cubes -malnutrition-word-concept-cubes-image175269786

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4863272/

- If an individual does not meet the minimum of two criteria for a malnutrition medical diagnosis, there are other factors that may cause a resident to be at increased nutritional risk
- Such factors include:
 - Dementia
 - Poor oral health
 - Texture-modified diets/Dysphagia
 - Infection
 - Health decline



Updated CMS Reform of LTC Regulations



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F284 Discharge Planning

 Must involve resident and/or representative and be developed by the interdisciplinary team

F660-661 Discharge Planning Process

- Planning begins on admission
- Must include nutritional status/needs
- Include referrals to local contact agencies for support services such as meals or groceries

PDPM and Malnutrition Reimbursement

Patient Driven Payment Model

- Identifying and properly coding for malnutrition or at risk for malnutrition can lead to potential increased reimbursement for facilities who utilize PDPM
 - PDPM = Medicare Part A reimbursement model

(Data provided by S & S Nutrition Network, Inc.)

Outcomes of Missed Opportunities

Case Study Example

- "Mr. Smith"
 - The RDN recognized and diagnosed "Mr. Smith" with malnutrition
 - Malnutrition diagnosis was identified on the MDS for one resident
 - Under PDPM, this lead to potential increased reimbursement per day of ~ \$19 -\$57
 - Potential increased reimbursement over a 30 day period of \$587-\$1,735
 - Potential increased reimbursement over a 1 year period of \$6,935-\$20,805

(Data provided by S & S Nutrition Network, Inc.)

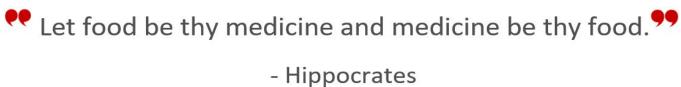
Nutrition Intervention Strategies

Person-Centered Strategies to Enhance the Dining Experience



Food as Medicine: Connecting Wellness with Food







Elevating the Dining Experience

 Delicious food and increasing dining satisfaction leads to decreased malnutrition risk

 Improved weight maintenance, strength and skin integrity leads to overall improved outcomes



ANALYZE PATIENT OUTCOMES

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Nourishing Meals in Healthcare & Senior Living

Typical Departmental Goals in Foodservice Operations:

- Manage expenses & labor
- Proper safety & sanitation
- Provide high quality meals
- Increase resident, visitor & employee satisfaction
- Build healthier communities





Foodservice & Clinical Leader Conversations



"We need to increase our patient satisfaction scores."

"I have to keep my team members and guests safe."

"Residents are losing weight and muscle mass."



"I've had multiple Clinical Dietitian positions for a long time and they are hard to fill."

Dining Experience: The Mission

Person-Centered Care & a Quality Dining Experience are Fundamental Goals:

- What was the dining experience like pre-pandemic?
- Were guests or residents fully satisfied?
- What are the new long-term goals or initiatives?
- Is the dining plan flexible?
- Is your team prepared?





Back to Basics

Baseline

- What is your starting point?
- Are your systems & processes hard-wired?
- Are you always survey-ready?

Align Your Goals

- Ensure departmental goals are aligned with the organization
- Determine which audit methods should be put into place

Activate Your Plan

- Implement your strategy
- Communication & training are keys to success



Establish a Baseline

- Patient satisfaction surveys
- Resident council
- Meal rounding
- Team member (Nursing) comments





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Dining Experience: Self-Review



https://www.istockphoto.com/photos/checklist

Focus Areas:

- Production & Culinary Practices
- Meal Assembly
- Meal Presentation & Food Quality
- Meal Delivery
- Dining Room
- Employee Training
- Performance Improvement

Menu Considerations



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Appeal

Redundancy

Cooking Techniques

Seasonal Items

Global Inspirations

Theme Days

Food Quality

Meal Presentation

Culinary Tips for Individuals with Dementia

- Use unique herbs & spices to enhance flavors
- Add small amounts of sugar & honey to sauces for extra sweetness
- Offer finger foods
 - Muffins
 - Mini Quiches
 - Quesadillas
 - Chicken nuggets or tenders
 - Slider sandwiches



https://www.istockphoto.com/photos/chef-hat



Optimize the Dining Environment

- Limit distractions
- Clean table/tray table
- Social interaction
- Quiet, soft music
- Adequate lighting
- Clock to orientate
- Provide adequate meal time





Visual Appeal

- Importance of real dinnerware
- Elevated disposables
 - Eco-friendly, reusable disposables
- "Extra" special touches
 - Scented towelettes
 - Sanitizable, re-usable, nice placemats

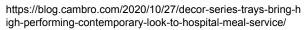


Plate with Pride



https://www.itsmadeforyou.co.uk/dysphagia/post/a -pureed-food-for-people-with-dysphagia







Elevate the Dining Experience in Senior Living: Industry Input



Suzanne Quiring, CDM, RD
Dietitian/Inventor SuzyQ carts
ANFP Dining Distinction Award Winner 2020

All hands on deck

- Protected meal hour
- Put your management team on a coffee serving schedule

Food is only nourishing if they eat it

• Why aren't they eating?

Shift control from pre-determined to self-determination

Go mobile



Helpful Information

Older Adult Malnutrition Resources



Industry Resources

- https://www.eatrightpro.org/search-results?keyword=malnutrition
- www.feedingamerica.org
- Feeding America: Addressing Food Insecurity in Healthcare Settings
- www.defeatmalnutrition.today
- Malnutrition Quality Improvement Initiative Tool Kit
- Defeat Malnutrition Today (2020 National Blueprint)
- Malnutrition Quality Improvement Initiative (MQii)
- www.nutritioncare.org
- ASPEN Resources for Clinicians caring for COVID
- Global Leadership Initiative on Malnutrition (GLIM)
- https://www.todaysdietitian.com/newarchives/090115p56.shtml
- https://www.pioneernetwork.net/

Also presented Malnutrition Care: Person-Centered Strategies to Improve Quality Outcomes at DHCC Virtual Symposium 2022 (MD DHCC presentation is an adapted version)



Academy of Nutrition and Dietetics



defeat malnutrition today

...vital to healthy aging







Quote by Julia Child

"The dinner hour is a sacred, happy time when everyone should be together & relaxed."



Thank You

