Post-Hospital Syndrome: Does it Contribute to the Risk of Rehospitalization and What Can Home Health Care Providers Do to Mitigate the Risk?

Jennifer Lee, MSPT Manager of Rehab Services

Nancy Roberts, MSN, RN President and CEO VNA of Care New England

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Disclosure

- Support for this Program is provided by Abbott Nutrition
- The slides were developed by the Speakers with input from Abbott Nutrition
- The program is not intended for continuing education credits for any healthcare professional



Objectives

- To discuss the disruption in homeostasis associated with hospitalization that results in post-hospital syndrome for frail, elderly patients
- To describe how nutrition interventions can improve patient outcomes and mitigate the risk for rehospitalization
- To discuss the implementation of a pilot program intended to address malnutrition and other risk factors for rehospitalization
- To review the results and impact on patient outcomes



What is Post-Hospital Syndrome? An Acquired Transient Condition of Generalized Risk

"During hospitalization, patients are commonly deprived of sleep, experience disruption of normal circadian rhythms, are nourished poorly, have pain and discomfort, confront a baffling array of mentally challenging situations, receive medications that can alter cognition and physical function and become deconditioned by bed rest or inactivity."

NEJM 368;2 January 10,2013, Harlan Krumholz MD





Post Hospital Syndrome Increases Risk for Rehospitalizaiton

- Fatigue and sleep disturbances increase risk for alerted cognition, functional dexterity, and difficulty in adhering post discharge instructions
- Dietary restrictions and diminished appetite results in weight loss, impaired wound healing, increase risk of infections and pressure ulcers
- Prolonged bed rest and limited activity increase risk of falls, accidents, and decrease stamina



Successful Care Transitions

"Doing the Right Thing"

- Coordinated across care settings, meaningful exchange and transfer of information
- Employ evidence based clinical standards of care
- Utilize patient centered practices

Better Care, Better Health, Lower Costs



Successful Care Transitions

Coordinated

Design and align care to mitigate risk factors

- Evidenced Based
 - Address the disruption in homeostasis to meet physiological needs:
 - Nourishment
 - Weakness and debility
 - Medication management
 - Safety
 - Symptom Management



Successful Care Transitions

- Patient Centered
 - Patient/family engagement
 - Goal driven care
 - Establishment of a personal health record
 - Utilize "red flags" and "zones"

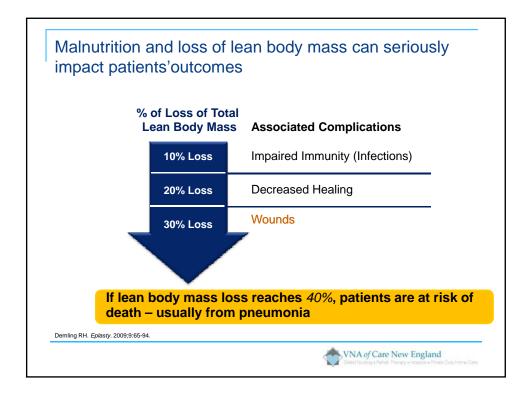


The Newly Discharged Patient

- Physical limitations impact their ability to meet their basic physiological needs
- Disturbed sleep patterns
- Pain and discomfort
- Weight loss, reduced appetite and disrupted eating patterns
 - □ 13-30% of home care patients are malnourished
 - 25% of patients have experienced a loss of lean body mass

Guigoz Y. J Nutr Health Aging. 2006;10:466-487





What is Malnutrition?

A state of nutrition in which a deficiency, excess, or imbalance of energy, protein, and other nutrients causes measurable adverse effects on body function and clinical outcome.

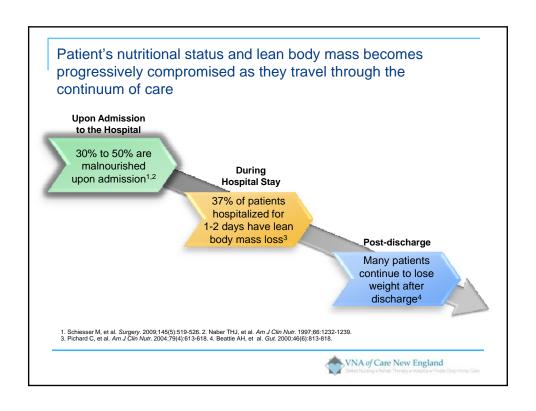
Elia M, ed. Guidelines for Detection and Management of Malnutrition: A Report of the Malnutrition Advisory Group. Maidenhead, UK: British Association for Parenteral and Enteral Nutrition (BAPEN); 2000.



Impact of Malnutrition

- Increase complications including higher infection rates, decreased wound healing and low endurance
- Loss of lean body mass resulting in loss of strength, fatigue, and lethargy
- Increase dependence secondary to difficulties in performing activities of daily living (ADL)
- Healthcare costs increase by 20%-300% in malnourished patients

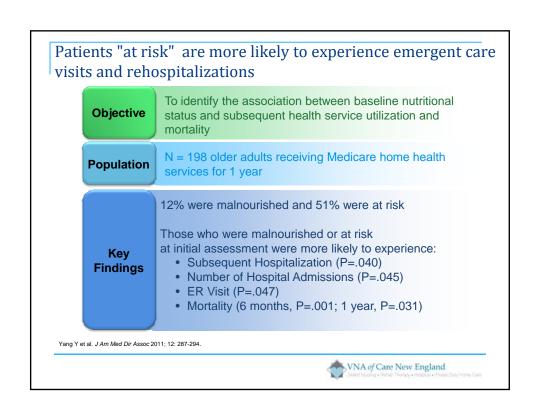


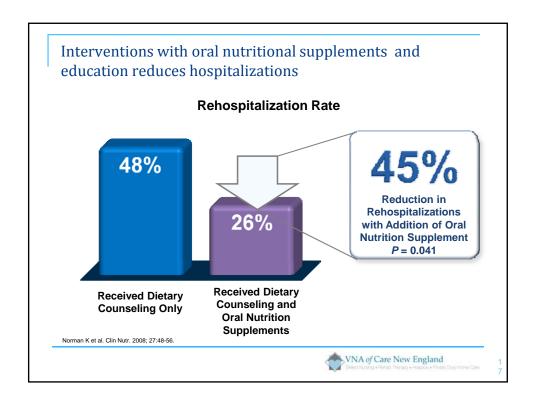


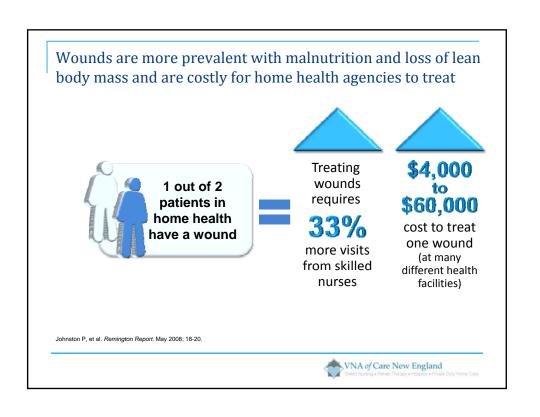
Is Nutrition Intervention the Next Blockbuster Drug and Will it Mitigate Patient Risk Factors?

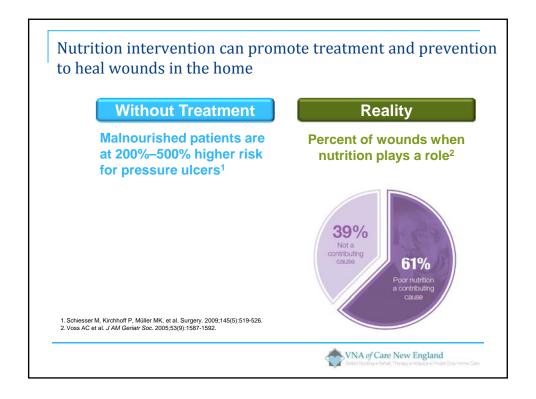
- Increase wound healing
- Reduce chronic disease complications
- Shorten recovery time and promote independence
- Improve patient's ability to self manage
- Decrease risk for preventable rehospitalizations

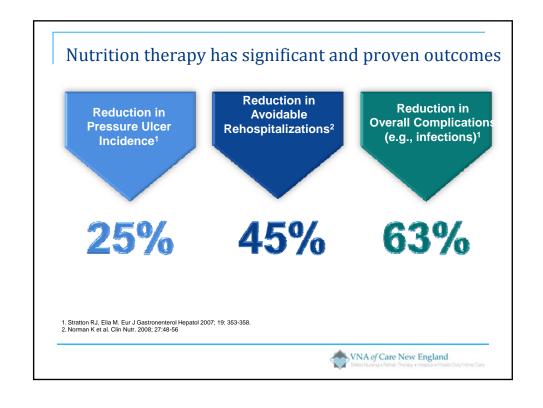












What Prompted a Pilot Project?

- Literature Review
 - Current best practices in prevention of avoidable rehospitalizations
 - Little to no mention of the role nutrition plays in improving outcomes
- The "a-ha moment" PHS Article
- Led to conversations with Abbott Nutrition representative



Pilot Project Goal

- Reduce rehospitalizations by engaging patients in activities that
 - overcome barriers that are impeding their efforts to meet basic physiological needs
 - improve patient activation and engagement
 - promote self-management



Pilot Team and Responsibilities

- Team Coordinator
- Admission RN
- Case Manager RN
 - Education on disease management, medication management, nutrition and safety
- PT
 - Home safety, strength and balance, importance of nutrition and hydration
- OT
 - Home safety, meal preparation, kitchen task management, energy conservation and work simplification



Pilot Program Development

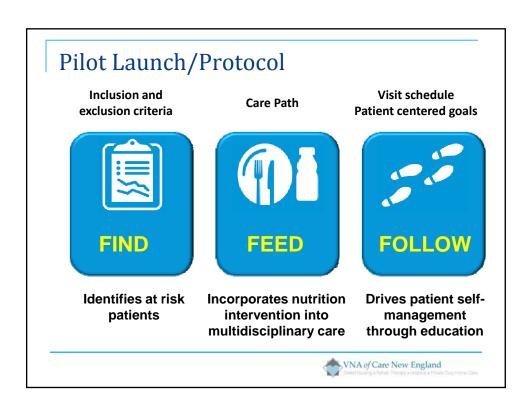
- Inclusion / Exclusion Criteria defined
- Staff input
 - Roles of Each Discipline
 - Patient centered goals for each discipline
 - Mechanisms of communication between disciplines (Collaboration)
 - Review of patient education materials related to nutrition
- Care path / Care plan expanded to include focus on nutrition



Pilot Staff Education

- Abbott Nutrition in-service (Taste Test)
- Review of NEJM article
- Principles of patient engagement and activation





Measures

- Decrease in hospital re-admissions, emergency room visits and/or unscheduled physician office visits
- Decreased Fall Risk as evidenced by improved POMA Score
- Improved M 1880: Current Ability to Plan and Prepare Light Meals
- Improved M2020: Management of Oral Medications



The Pilot Patients (to date)

- 10 patients referred following hospitalization or short term stay at skilled nursing facility greater than 3 days
 - Average age 84.6, 5 women and 5 men
 - Live in the same town and were treated by the same RN, PT, and OT
 - Have several risk factors for re-hospitalization (including lives alone, multiple medications, impaired mobility)
- All patients were noted to
 - Have an increased risk of falls at admission
 - Require assistance with meal preparation
 - Require assistance with oral medication management



Patient Feedback

- Overwhelmingly positive from patients
 - They like the taste of the product
 - They feel like they are adding another tool to aid in their recovery "I do my exercises, drink my Ensure, and keep walking and I'm getting better every day"



Staff Feedback

- Also positive
 - Another tool to help patients get better
 - □ The program is easy for patients to understand
 - Learning about the effects of post hospitalization syndrome matches up with their experiences
 - Energized to add nutrition as an area of focus



Summary

- Study remains ongoing
- Next steps include
 - Expanding staff education to extend the program and increase enrollment
 - Collecting and analyzing data
 - Decrease in hospital re-admissions, emergency room visits and/or unscheduled physician office visits
 - Decreased Fall Risk as evidenced by improved POMA Score
 - Improved M 1880: Current Ability to Plan and Prepare Light Meals
 - Improved M2020: Management of Oral Medications



Contact Information

Nancy Roberts
President and CEO
VNA of Care New England
401-737-6050

nroberts@vnacarenewengland.org

Jennifer Lee Manager of Rehabilitation VNA of Care New England 401-737-6050

jlee@vnacarenewengland.org

