Meals On Wheels Leadership Academy

SENIOR NUTRITION INSTITUTE Sponsored by the Walmart Foundation

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TAB

PRESENTERS



Linda Netterville, MA, RD, LD, is MOWAA's vice president for grants management. Her 25 years of experience in nursing homes and community-based nutrition programs includes being state nutritionist for the Texas Department on Aging and executive director of a rural nutrition program. She has previously served as president of MOWAA and chairman of Gerontological Nutritionists—a Practice Group of the American Dietetic Association. Linda received a BS from the University of Missouri and an MA from the University of Texas.



Dr. Audrey C. McCool, EdD, RD, LD, is a professor emeritus at the University of Nevada Las Vegas. Prior to entering the education field, Audrey spent 20 years in health care foodservices. She has taught courses related to financial management, foodservice systems management and nutrition for the elderly. She has written multiple publications concerning foodservice management and nutritional care including a continuing education course regarding nutrition for older persons utilized by multiple allied health professionals for more than ten years.

After entering the academic field Audrey conducted research regarding the structure and management of nutrition programs for older persons, and continued to provide consultation and training for these programs. She was a consultant to the Congressionally-mandated evaluation of the Nutrition Programs for Older Americans, co-authoring the project report. She has previously presented Meals on Wheels workshops regarding program management and evidence based research. Audrey has an MS from the University of Illinois and an EdD from Texas Tech University.



Bob Kollar, CPA, has over 27 years of business and public accounting experience. Bob and his wife Kellie, also a CPA, own Kuhleman Kollar & Associates CPA's, P.C., an accounting and business consulting firm that works primarily with small businesses, mid-sized companies and non-profit organizations in a variety of industries. Bob's background includes 14 years of experience with the international professional services firm of Ernst & Young LLP.

In the fall of 2003, Bob accepted an appointment on the faculty of Duquesne University's Palumbo-Donahue School of Business as an Assistant Professor of Accounting. In March of 2004, Bob was appointed Director of the Master of Accountancy Program in Duquesne's John F. Donahue Graduate School of Business. Bob has developed specific training programs for non-profit organizations for Duquesne University's Non-Profit Leadership Institute. Bob received his Bachelor's and Master's Degrees in Business Administration from Duquesne University.



Nadine Sahyoun, PhD, RD, is an associate professor of nutritional epidemiology in the Department of Nutrition and Food Science at the University of Maryland. Prior to this she was a Senior Fellow at the National Center for Health Statistics. She is a Fulbright Scholar and has been teaching for many years on topics relating to nutrition and aging. Her research and publications focus on assessing the nutritional status of the older adult population and studying the relationship between nutrition and health in this population. Nadine received a BA from the University

of Massachusetts, an MS from the University of Iowa and a PhD from Tufts University School of Nutrition.

TAB

List of Participants Senior Nutrition Institute

Cathy Arft

Dietary Director Osceola Council on Aging 700 Generation Point Kissimmee, FL 34744 407-847-2144 arftc@osceola-coa.com

Home-delivered per year: 96,600 Congregate per year: 65,000 Clients served: 1,488 Annual budget: \$1,178,951 Service area: Mixture of rural and urban

Donna Barrett

Director North Area Meals on Wheels 413 Church Street North Syracuse, NY 13212 315-452-1402 donnamb22@yahoo.com

Home-delivered per year: 104,000 Clients served: 290 Annual budget: \$150,000 Service area: Primarily urban/suburban

Wilda Belisle

Nutrition Director Osceola Council on Aging 700 Generation Point Kissimmee, FL 34744 407-847-2144 belislew@osceola-coa.com

Home-delivered per year: 96,600 Congregate per year: 65,000 Clients served: 1,488 Annual budget: \$1,178,951 Service area: Mixture of rural and urban

Marcy Berner-Reedy

Executive Director Beloit Meals on Wheels Inc. 424 College Street Beloit, WI 53511 608-362-3683 beloitmow@tds.net

Home-delivered per year: 23,000 Clients served: 175 Annual budget: \$252,000 Service area: Mixture of rural and urban

Sara Bumgarner

Director of Nutrition Services Senior Resource Association 694 14th Street Vero Beach, FL 32960 772-469-2061 sbumgarner@sramail.org

Home-delivered per year: 66,000 Congregate per year: 48,000 Clients served: 450 Annual budget: \$610,000 Service area: Mixture of rural and urban

Ann Chickowski

Nutritionist Broward Meals on Wheels 3810 Inverrary Blvd. Suite 305 Lauderhill, FL 33319 954-714-6928 achickowski@bmow.org

Home-delivered per year: 775,455 Congregate per year: 261,404 Clients served: 10,000 Annual budget: \$4,080,931 Service area: Primarily urban/suburban

Michael Dennis

Executive Director Wood County Senior Citizens Assoc. Inc. 914 Market Street Parkersburg, WV 26101 304-485-6748 mdennis@suddenlinkmail.com

Home-delivered per year: 30,000 Congregate per year: 15,000 Clients served: 300 Annual budget: \$305,759 Service area: Primarily rural

Amy Falconer

Highland County Community Action 1487 N. High Street Hillsboro, OH 45133 937-393-3458 periej@usa.net

Home-delivered per year: 32,200 Congregate per year: 4,500 Clients served: 300 Annual budget: \$275,000 Service area: Primarily rural

Jennifer Fralic

Nutrition Programs Director LifeCare Alliance 1699 West Mound Street Columbus, OH 43223 614-437-2863 jfralic@lifecarealliance.org

Home-delivered per year: 1,000,000 Congregate per year: 150,000 Clients served: 5,000 Annual budget: \$4,000,000 Service area: Mixture of rural and urban

Lamar Gailey

Community Programs Manager Legacy Link, Inc. P.O. Box 2534 Gainesville, GA 30503 770-538-2641 mlgailey@legacylink.org

Home-delivered per year: 295,474 Congregate per year: 71,114 Clients served: 1,598 Annual budget: \$2,483,022 Service area: Primarily rural

Sharon Geiss

Executive Director Mid America Nutrition Program, Inc. 1538 Industrial Avenue Ottawa, KS 66067 785-242-8341 sdgeiss@midamericanutrition.org

Home-delivered per year: 82,000 Congregate per year: 86,000 Clients served: 2,200 Annual budget: \$1,400,000 Service area: Primarily rural

Tim Getty

Nutrition and Healthy Living Coordinator The Heritage Agency on Aging 6301 Kirkwood Boulevard SW Box 6301 Cedar Rapids, Iowa 52406 319-398-5559 tgetty@kirkwood.edu

Home-delivered per year: 361,000 Congregate per year: 195,000 Clients served: 6,500 Annual budget: \$1,900,000 Service area: Mixture of rural and urban

Mike Glasgow

RD - OAA Consultant Greater Wisconsin Agency on Aging Resources 125 N. Executive Drive Brookfield, WI 53005 262-432-7977 michael.glasgow@gwaar.org

Home-delivered per year: 1,700,000 Congregate per year: 1,500,000 Clients served: 55,000 Annual budget: \$14,000,000 Service area: Mixture of rural and urban

Holly Greuling

SUA Dietitian Florida Department of Elder Affairs

4040 Esplanade Way Tallahassee, FL 850-414-2000 greulingh@elderaffairs.org

Sandra Hamilton

Meals Coordinator SeniorCare Experts 145 Thierman Lane Louisville, KY 40207 502-896-2316 s.hamilton@srcareexperts.org

Home-delivered per year: 20,000 Clients served: 4,420 Annual budget: \$47,655 Service area: Primarily urban/suburban

Ruth Hunstiger

Director of Community Services Catholic Charities of the Diocese of St. Cloud 157 Roosevelt Road Saint Cloud, MN 56301 320-229-4592 rhunstiger@ccstcloud.org

Home-delivered per year: 180,000 Congregate per year: 198,000 Number of clients served: 8,000 Annual budget: \$2,606,800 Service area: Primarily rural

Linda Jay

Operations Manager Meals On Wheels of Texoma 4114 Airport Drive Denison, TX 75090 903-786-3351 Ijay@mowot.org

Home-delivered per year: 375,000 Congregate per year: 37,525 Clients served: 1,650 Annual budget: \$1,800,000 Service area: Mixture of rural and urban

Richard Kimberly

Director of Food Service Sedona Community Center 2615 Melody Lane Sedona, AZ 86336 928-282-2834 rkimberly@sccsedona.org

Home-delivered per year: 12,500 Congregate per year: 8,500 Clients served: 21,000 Annual budget: \$65,000 Service area: Primarily rural

Jeanne Martin

Director Pascack Valley Meals on Wheels P.O. Box 291 Westwood, NJ 07675 201-358-0050 director@pvmealsonwheels.org

Home-delivered per year: 120,000 Clients served: 350 Annual budget: \$300,000 Service area: Mixture of rural and urban

Lisa McCrystal

Director of Nutrition Services Seniors First, Inc. 5395 LB McLeod Road Orlando, FL 32811 407-615-8970 Imccrystal@seniorsfirstinc.org

Home-delivered per year: 259,436 Congregate per year: 107,074 Clients served: 2,195 Annual budget: \$1,943,617 Service area: Primarily urban/suburban

Kathy Paquet

Nutrition and Wellness Coordinator Central VT Council on Aging 59 N. Main Street, Suite 200 Barre, VT 05641 802-476-2670 kpaquet@cvcoa.org

Home-delivered per year: 134,223 Congregate per year: 56,383 Clients served: 2,200 Annual budget: \$617,000 Service area: Primarily rural

George Popovich

Director Mid Florida Community Services, Inc. P.O. Box 896 Brooksville, FL 34605 352-796-0485 george@mfcs.us.com

Steve Schnabl

Chief Executive Officer Partners in Prime 140 Ross Ave. Hamilton, OH 45013 513-867-1998 sschnabl@partnersinprime.org

Home-delivered per year: 150,000 Congregate per year: 150,000 Annual budget: \$12,500,000 Service area: Mixture of rural and urban

Shawn Sredersas

Nutrition & Health Director Mecosta County Senior Center/ Commission on Aging 12954 80th Avenue Mecosta, MI 49332 231-972-2884 shawn.sredersas@mccoasc.org

Home-delivered per year: 43,600 Congregate per year: 10,800 Clients served: 1,000 Annual budget: \$350,000 Service area: Primarily rural

Alan Winstead

Executive Director Meals on Wheels of Wake County P.O. Box 37639 Raleigh, NC 27627 919-833-1749 alan@wakemow.org

Home-delivered per year: 230,000 Congregate per year: 80,000 Clients served: 1,600 Annual budget: \$2,450,000 Service area: Primarily urban/suburban

Julia Wise

Executive Director Highland County Community Action 1487 N. High Street Hillsboro, OH 45133 (937) 393-3458 periej@usa.net

Home-delivered per year: 32,200 Congregate per year: 4,500 Clients served: 300 Annual budget: \$275,000 Service area: Primarily rural

Roseland Worrell

Executive Director Suffolk Meals on Wheels 2800 Godwin Blvd Suffolk, VA 23434 757-934-4911 rlworrel@sentara.com

Home-delivered per year: 45,300 Annual budget: \$193,000

TAB

DESIGNING FOOD DELIVERY SYSTEMS

A MOWAA Nutrition Specialist Certificate Program Workshop

Presented by

Audrey C. McCool, EdD, RD, LD



On completion of this course, participants will:

Recognize that an effective meal delivery system is an open system which consistently interacts with and gains feedback from the surrounding environment;

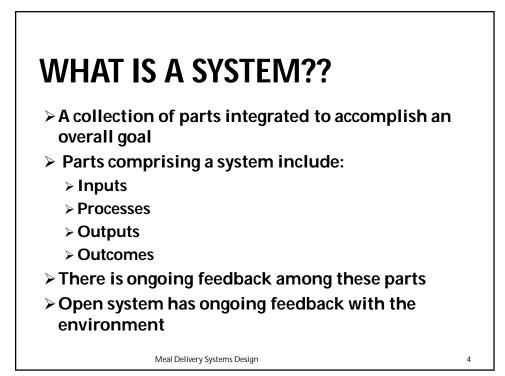
Appreciate the impact that the meal preparation and food delivery processes have on the safety and quality of the meals provided to clients, as well as on the desired outcomes for clients;

Evaluate the impact of proposed food product and equipment purchases on the safety and quality of the meals provided to clients;

Meal Delivery Systems Design

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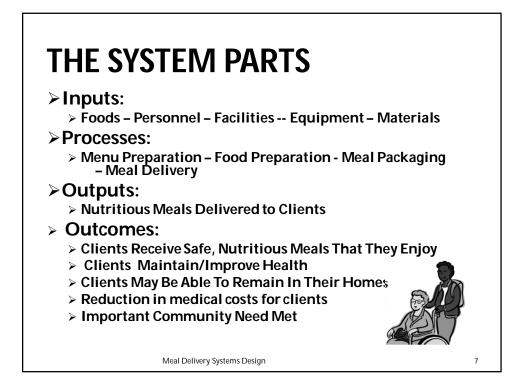


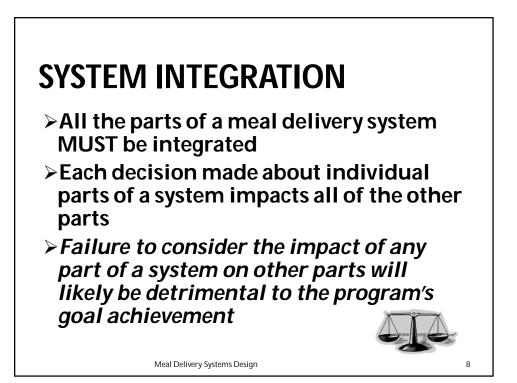




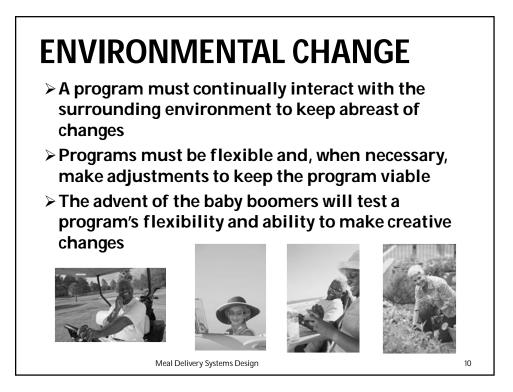
A meal delivery program is a system in that it has multiple and varied inputs which are processed in varying ways to produce the output of meals for older persons



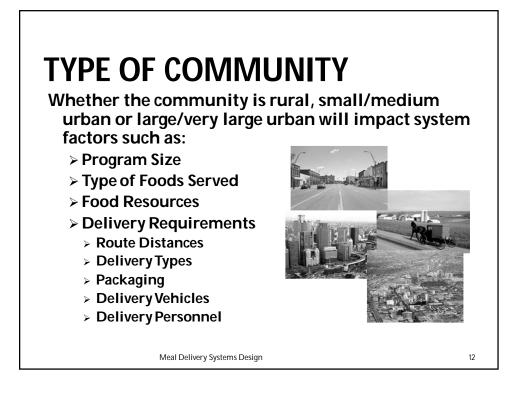




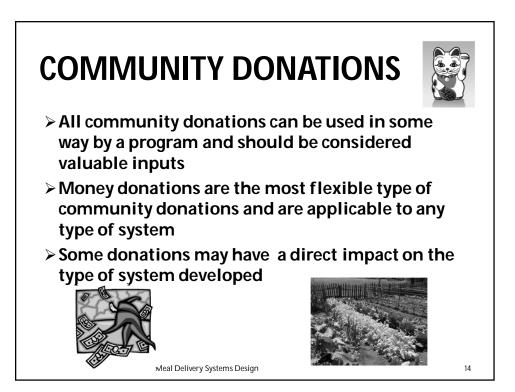






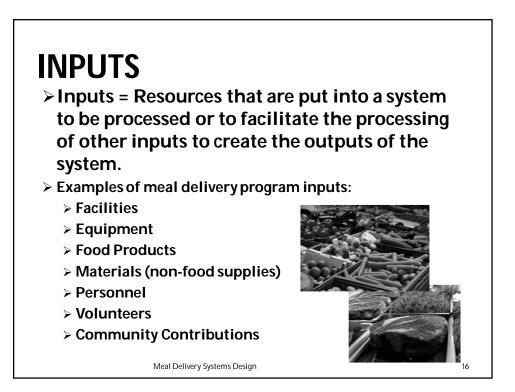


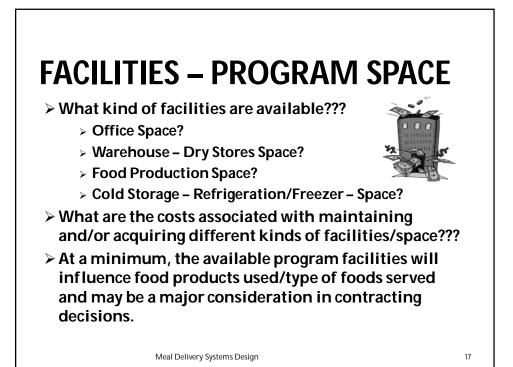




COMMUNITY RESOURCES

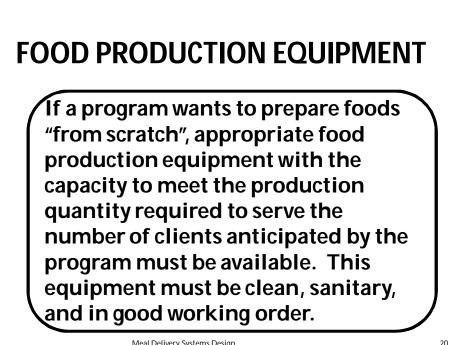
Community resources are essential for sustaining a meal delivery system. Thus, consistent positive interaction with the community (the system's environment) and feedback from the community (environment) is essential for a system's sustainment

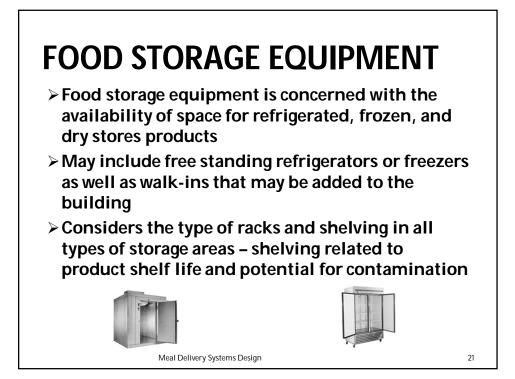


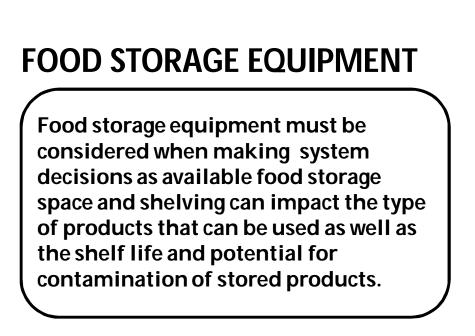












Meal Delivery Systems Design

FOOD PRODUCTS

- Food product selection has a major impact on all other aspects of the meal delivery system
- Food product selection may be impacted by facilities and equipment available
- Conversely food products desired by a program may impact decisions about facilities and equipment
- Food product decisions are integrated with all facets of the meal delivery program system -impact all system decisions

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Meal Delivery Systems Design

FOOD PRODUCT OPTIONS Type of "Raw Foods To Be Used **Refrigerated Prepared** Frozen Prepared Shelf Food In "From Scratch" **Foods Or Meals** Foods Or Meals Stable Product Meals Preparation Large capacity for Facilities -Refrigerated, frozen, Large capacity for Dry refrigerated storage; dry frozen storage; dry Equipment and dry storage; storage storage; separate storage; refrigerated Required Separate refrigerated areas to refrigerated areas may be storage if foods and/or frozen storage separate required if foods purchased in bulk, for raw foods and foods from purchased in bulk: thawed, rethermalized, prepared foods; Array other ovens may be required if and repackaged for of food production foods rethermalized at distribution at program materials program site; "Dish-Up" site; "Dish-Up" equipment, including and equipment (steam/cold equipment (steam/cold sinks and pot washing supplies table) may be required if table) may be required if equipment; "Dish-up" prepared products prepared products equipment (steam purchased in bulk: purchased in bulk: table), possible . possible . possible wrapping/sealing wrapping/sealing wrapping/sealing equipment - large equipment - large volume equipment - large - bulk foods repackaged volume - bulk foods volume of meals; for distribution; insulated repackaged for insulated or possibly or possibly heated or distribution; insulated heated or cooled cooled transport or possibly heated or transport equipment equipment cooled transport equipment Meal Delivery Systems Design 24

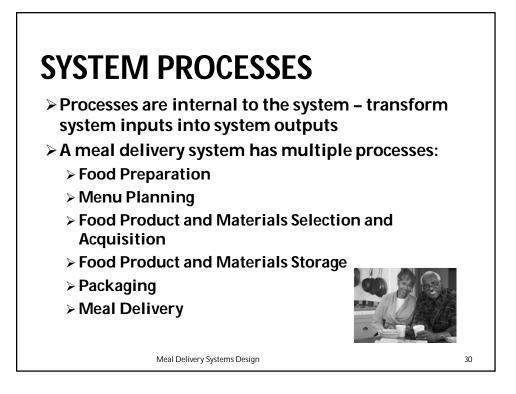
Type of Food Product	"Raw Foods To Be Used In "From Scratch" Preparation	Refrigerated Prepared Foods Or Meals	Frozen Prepared Foods Or Meals	Shelf Stable Meals
Personnel Considerations	Need personnel skilled in food preparation and portion control; need personnel trained in food safety and safe food handling practices	Need personnel trained in food safety and safe food handling practices; may need personnel trained in proper food rethermalization techniques and portion control	Need personnel trained in food safety and safe food handling practices; may need personnel trained in proper food rethermalization techniques and portion control	Need personnel trained in food safety and safe food handling practices

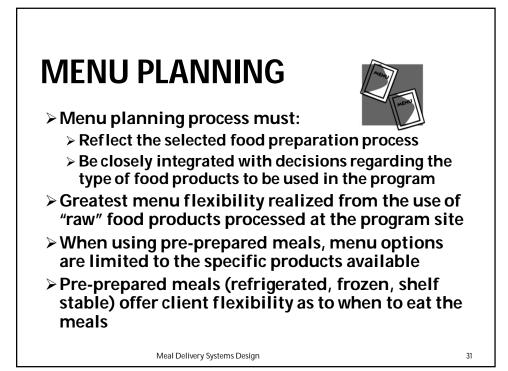
Type of Food Product	"Raw Foods To Be Used In "From Scratch" Preparation	Refrigerated Prepared Foods Or Meals	Frozen Prepared Foods Or Meals	Shelf Stable Meals
Advantages	Food product specifically tailored to program clientele and their needs; meals may have "home cooked" quality that may be desirable to clients; may be a lower per meal cost depending on product costs, waste management, portion control, & personnel costs	reduction; saving on capital equipment	Meals purchased packaged, ready-to- serve - maintenance of meal quality, portion size consistency, reduction in labor costs, possible improvement in food safety; Prepared, frozen bulk foods purchases - potential meal quality consistency ; labor cost reduction; saving on capital equipment investment	Reduction in labor costs, improved food safety, potential meal quality consistency, portion size consistency, savings on capital equipment investment

Type of Food Product	"Raw Foods To Be Used In "From Scratch" Preparation	Refrigerated Prepared Foods Or Meals	Frozen Prepared Foods Or Meals	Shelf Stable Meals
Disadvantages	Inconsistency in food product quality; inconsistency in food portions; excess cost from product waste; multiple opportunities for food contamination; difficulties in hiring adequately skilled personnel	Possible higher food cost; increased cost for large amount of refrigerated storage; possible food safety problems if products mishandled; if bulk products purchased - excess cost from product waste, multiple opportunities for food contamination; inconsistency in portions	Possible higher food cost; increased cost for large amount of frozen storage space; possible food safety problems if products mishandled; if bulk products purchased - excess cost from product waste, multiple opportunities for food contamination; inconsistency in portions	High product costs; Reliance on clients to reconstitute correctly - possible product quality and consistency problems; possible food safety problem if foods mishandled by clients once reconstituted

Type of Food Product	"Raw Foods To Be Used In "From Scratch" Preparation	Refrigerated Prepared Foods Or Meals	Frozen Prepared Foods Or Meals	Shelf Stable Meals
Quality Concerns	Poor food preparation; product deterioration for foods delivered hot; product deterioration when client reheats foods	Product deterioration if not held at proper temperatures; clients may not like the "TV dinner" type meals and foods; product deterioration from foods not rethermalized properly; product deterioration if food rethermalized at program site and delivered hot	Product deterioration if not held at proper temperatures; clients may not like the "TV dinner" type meals and foods; product deterioration from foods not rethermalized properly; product deterioration if food rethermalized at program site and delivered hot	Poor product quality if not reconstituted properly by client; may have poor taste - not "real food" taste for client

Type of Food Product	"Raw Foods To Be Used In "From Scratch" Preparation	Refrigerated Prepared Foods Or Meals	Frozen Prepared Foods Or Meals	Shelf Stable Meals
Food Safety Concerns	Multiple opportunities for contamination & cross-contamination in storage and during preparation; foods out of time & temperature range during and after preparation, food temperatures not maintained properly during meal packaging and/or delivery; clients leaving foods out at room temperature if not eaten right away	Out of acceptable time & temperature range if not held at proper temperatures during storage and transport or client leaves meal on counter at room temperature; If bulk foods rethermalized and packaged at program site - multiple opportunities for contamination at all stages	Out of acceptable time & temperature range if not held at proper temperatures during storage and transport or client leaves meal on counter at room temperature; If bulk foods rethermalized and packaged at program site - multiple opportunities for contamination at all stages	Food spoilage and contamination if reconstituted and not eaten right away - time & temperature problems; contaminated water used for reconstitution

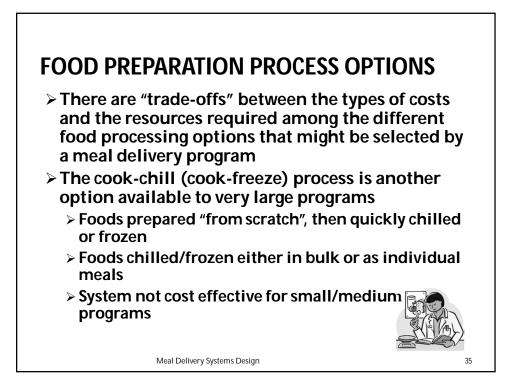


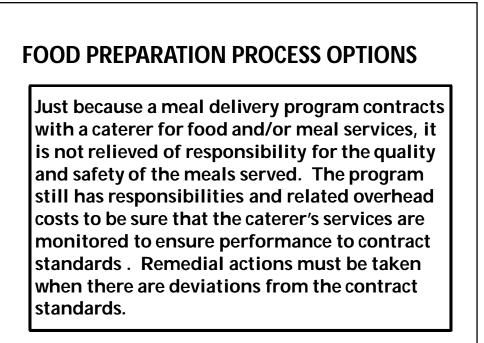


Process Option	All Food prepared in program facilities	Some food prepared in program facilities; some purchased pre-prepared	All Food purchased pre-prepared in bulk- refrigerated, Frozen, or Shelf Stable	All food purchased pre-prepared pre-packaged into individual meals - refrigerated, frozen or shelf stable	Caterer produces hot meals; delivers to program in bulk	Caterer produces, packages, and delivers hot meals directly to clients
Food Production Equipment Require- ments	All types of production equipment necessary for all types of food product production required	Some production equipment required - equipment dependent of type of products products produced in facilities	No production equipment required	No production equipment required	No production equipment required	No production equipment required

Process Option	All Food prepared in program facilities	Some food prepared in program facilities; some purchased pre-prepared	All Food purchased pre-prepared in bulk- refrigerated, Frozen, or Shelf Stable	All food purchased pre-prepared pre-packaged into individual meals - refrigerated, frozen or shelf stable	Caterer produces hot meals; delivers to program in bulk	Caterer produces, packages, and delivers hot meals directly to clients
Facility Space Require- ments	Large space for production, packaging, all types of storage, administrative offices, personnel areas (locker room, break areas)	Limited space for food production; large space for all types of storage; packaging area; administrative offices, moderate space for personnel	No space for food production; large space for all types of storage; packaging area; administrative offices, moderate space for personnel	No space for food production; large space for refrigerated and/or frozen storage; limited space for dry storage and for packaging area; administrative offices; limited space for personnel areas	No space for food production; limited space for all types of storage; moderate space for packaging area (hot steam tables); administrative offices; limited space for personnel areas	No space for food related activities; administrative offices; limited space for personnel areas

Process Option	All Food prepared in program facilities	Some food prepared in program facilities; some purchased pre-prepared	All Food purchased pre-prepared in bulk- refrigerated, Frozen, or Shelf Stable	All food purchased pre-prepared pre-packaged into individual meals - refrigerated, frozen or shelf stable	Caterer produces hot meals; delivers to program in bulk	Caterer produces, packages, and delivers hot meals directly to clients
Probable per meal Food Cost	LOW (with good purchasing & product control)	Moderate	Moderate to High	High	High	Very High
Probable per meal overhead costs	High	Moderate to High	Moderate	Moderate	Moderate to Low	Low
Personnel Requirements	High; specialized skill requirements	Moderate to high; some specialized skill requirements likely	Moderate; limited specialized skill requirements	Low - few, if any, specialized skill requirements	Low; limited specialized skill requirements	Low - few specialized skill requirements



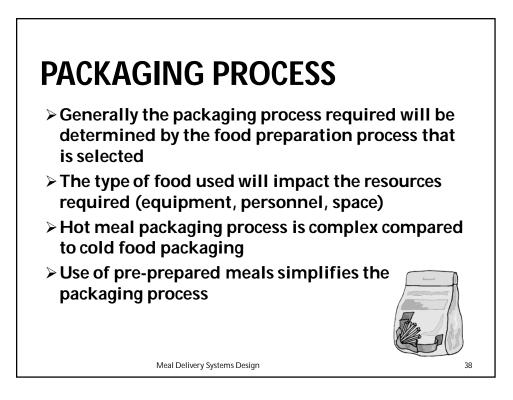


Meal Delivery Systems Design

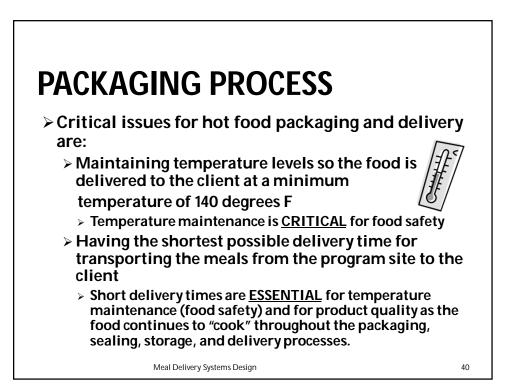
PRODUCT SELECTION AND STORAGE

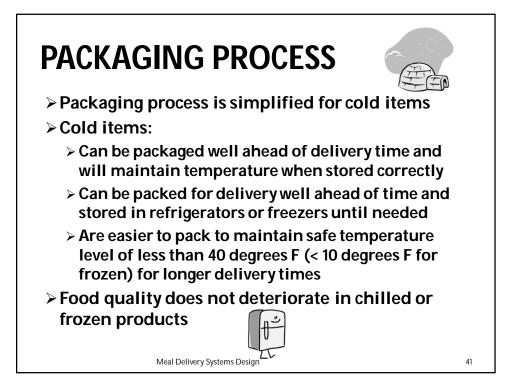
The process of selection and acquisition (purchasing) of food products and materials, such as packaging materials, and the storage process for foods and materials will not be discussed here as these processes are covered in the Food Cost Control course that is part of this certification program.

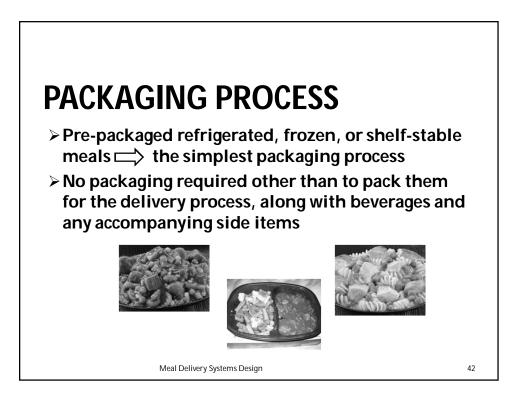
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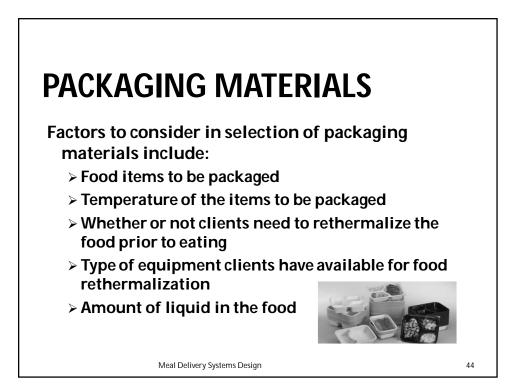












Materials	Aluminum containers	Aluminum Foil (cover containers)	Ovenable Paperboard Containers	Ovenable Plastic Containers	Plastic film (cover containers)	Soup Cups	Portion Cups
Holds Heat Well	No	Yes	Yes	No	Yes	Yes	No
Usable in oven	Yes	Yes	Yes - to 180°F sealed; 400°F open	Yes to 350°F for 30 minutes on sheet pan	Yes - to 180°F	No	No
Usable in Microwave	No	No	Yes	Yes	Yes	Yes	No
Usable in Freezer	Yes	Yes	Yes - good to -40°F	Yes - good to -40°F	Yes	No	Yes
Recyclable	Yes	Yes	No	Yes	No	No	No
Bio- degradable	No	No	Yes	No	No	No	No

PACKAGING MATERIALS

- Packaging materials selection must be integrated with type of food product used
- Packaging materials decision cannot be made until a decision is made regarding the type of food products to be used
- Pre-Packaged meals eliminate the need for further meal plating and packaging materials for the main entrée plate
- > May still need packaging materials for side items

Meal Delivery Systems Design

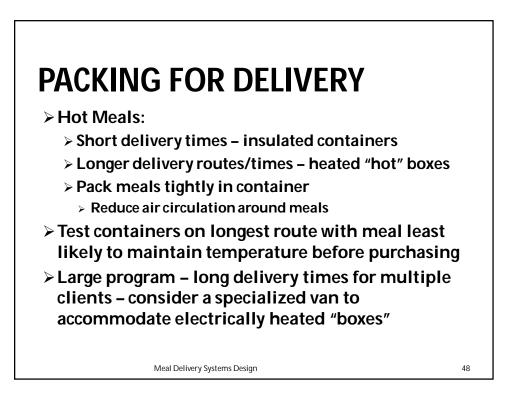
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PACKAGING MATERIALS OPTIONS

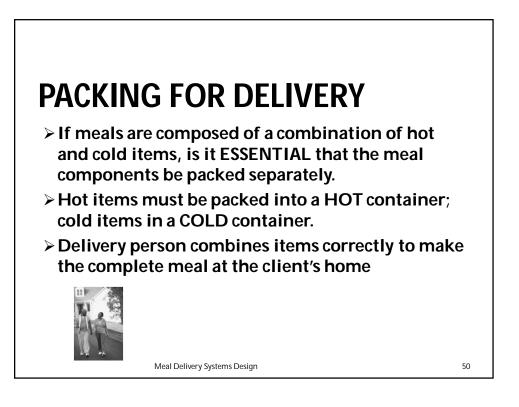
The packaging materials selected will impact the packaging process selected for the system. Some of these materials lend themselves to automated machine packaging; others do not. Programs serving a large volume of meals need to consider the automation factor, as well as the other factors related to the choice of packing materials.

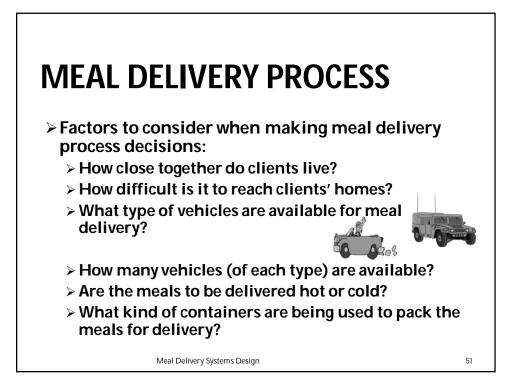


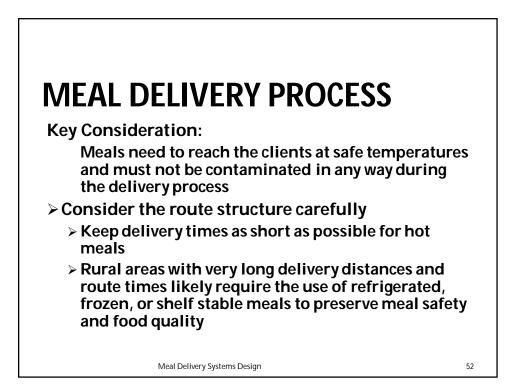
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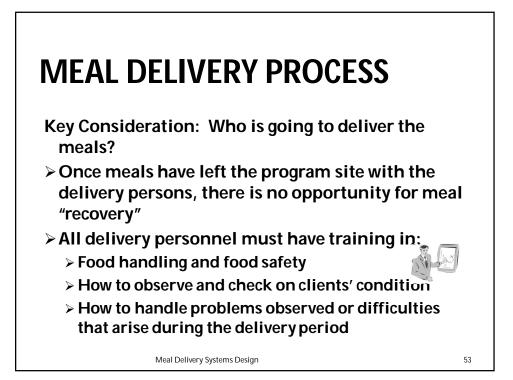




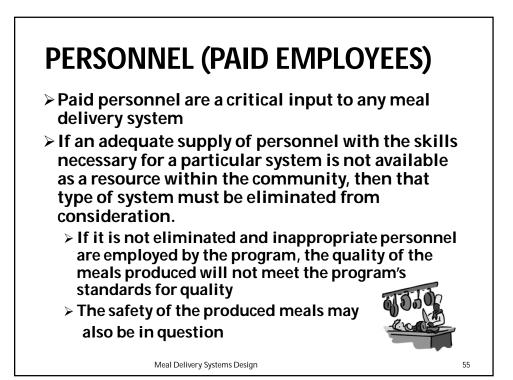


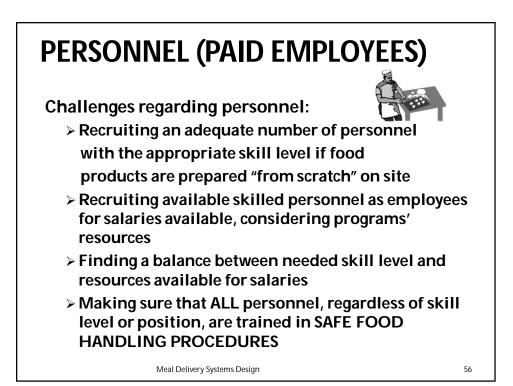


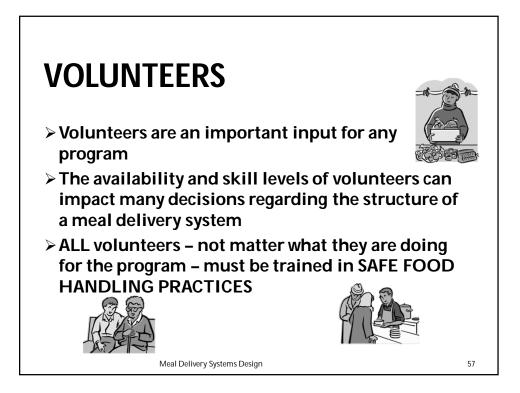


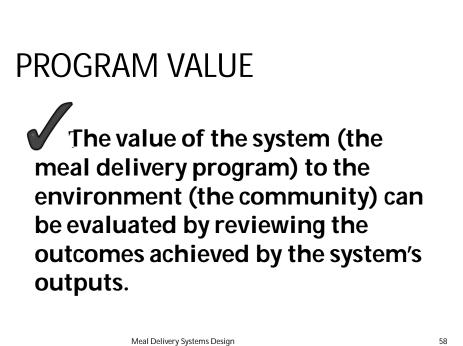


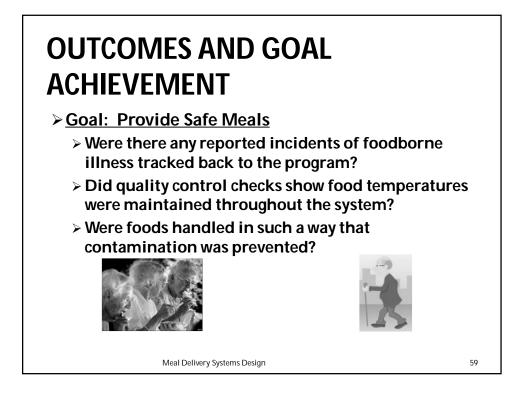










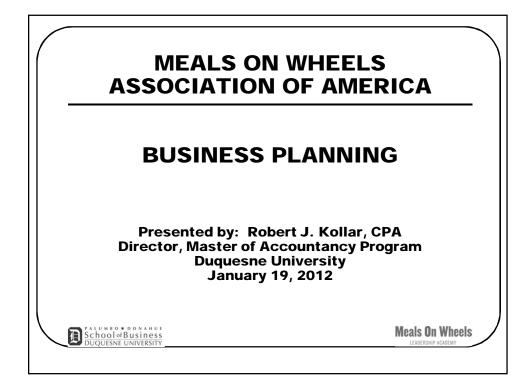


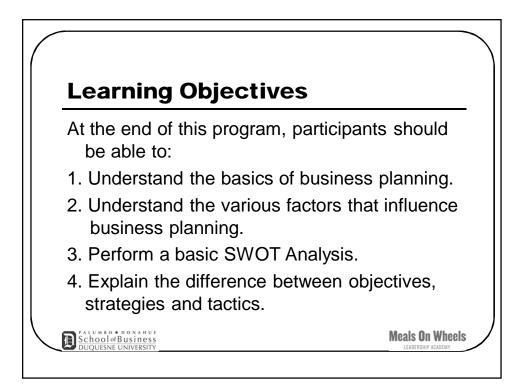


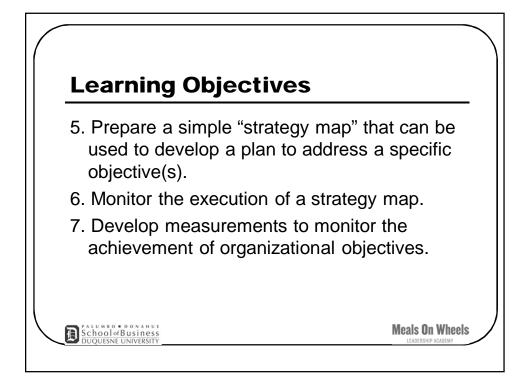




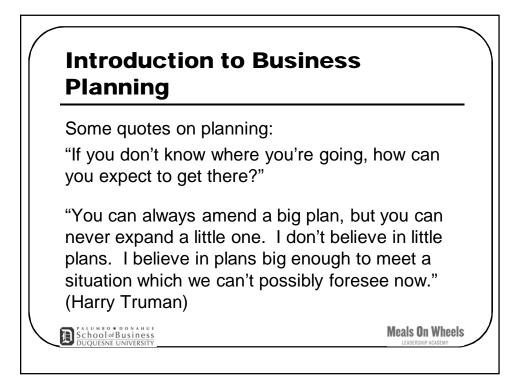
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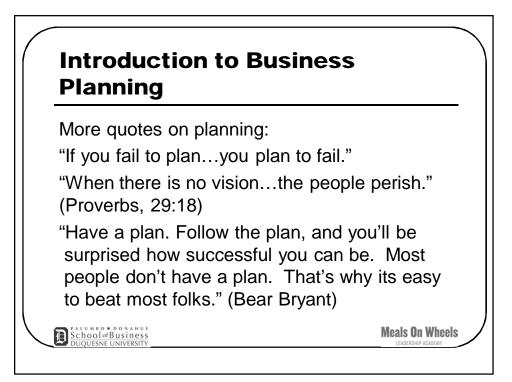












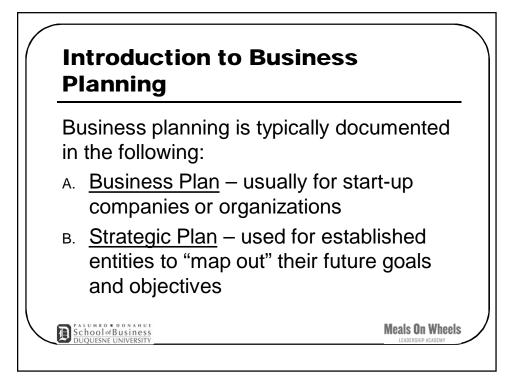
Introduction to Business Planning

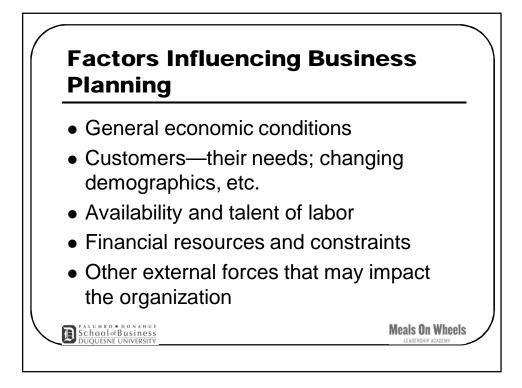
So what is business planning?

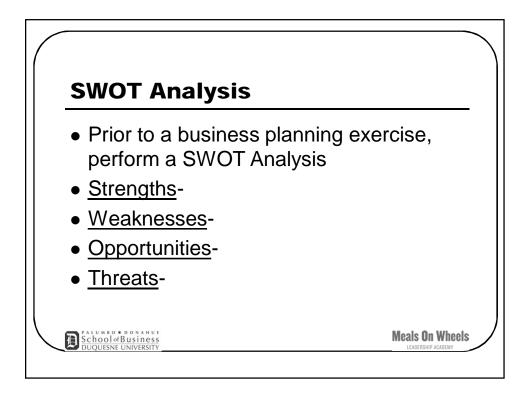
A systematic and methodical approach to assessing the internal and external factors facing an organization, and after assessing these factors, developing a sequence of actions that will both address these factors and enable the organization to achieve its objectives. (Kollar)

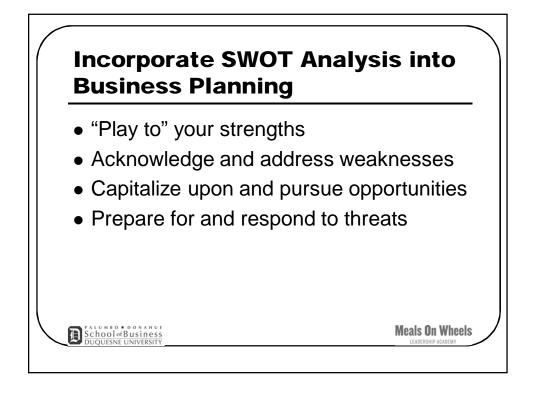
School of Business

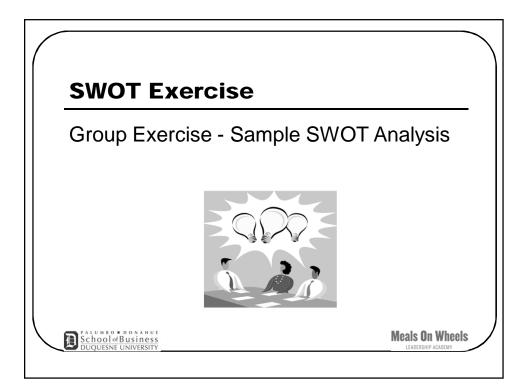
Meals On Wheels

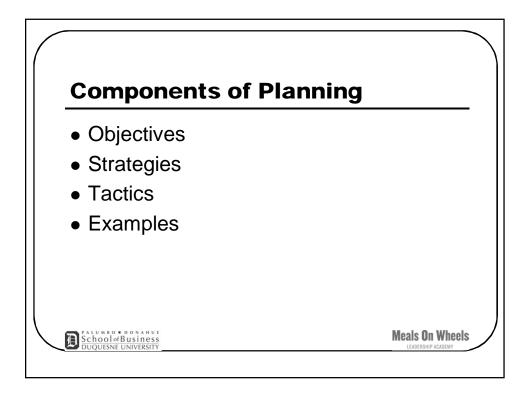


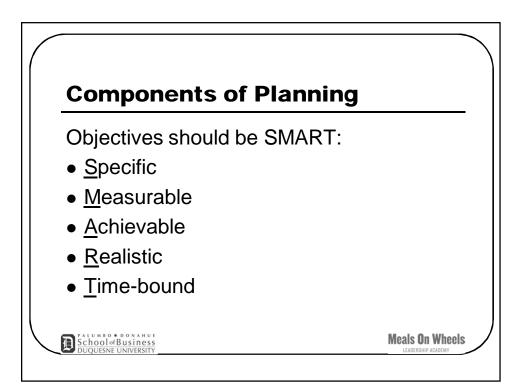


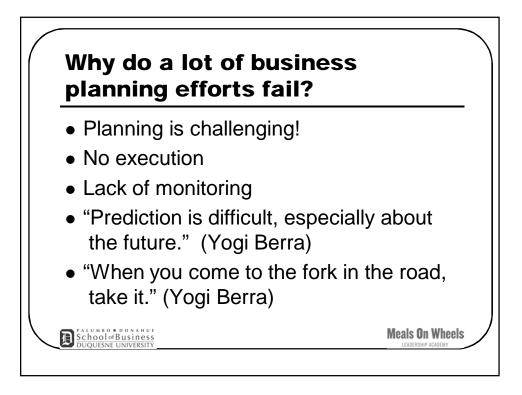


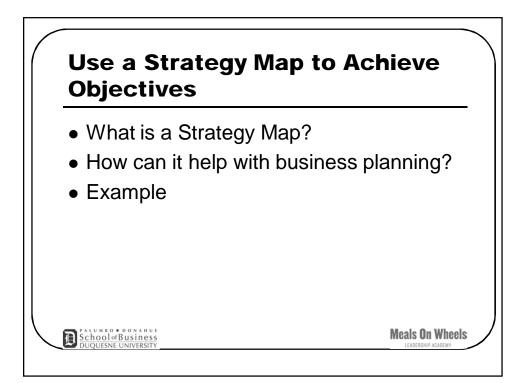


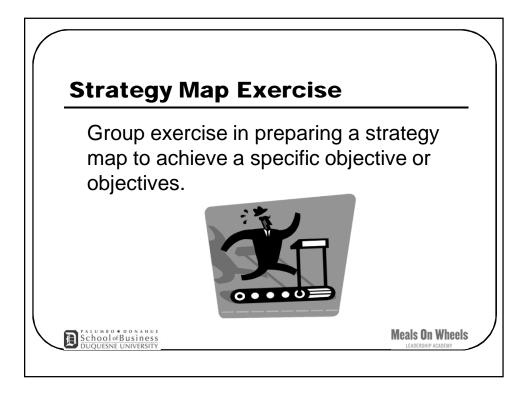


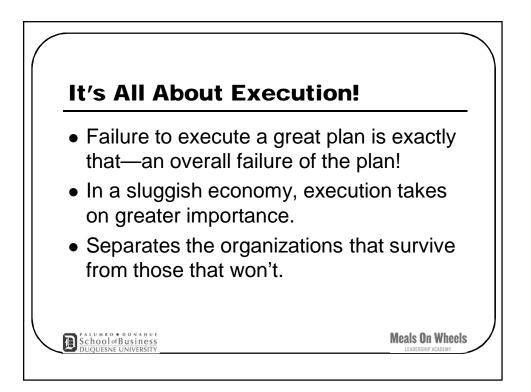


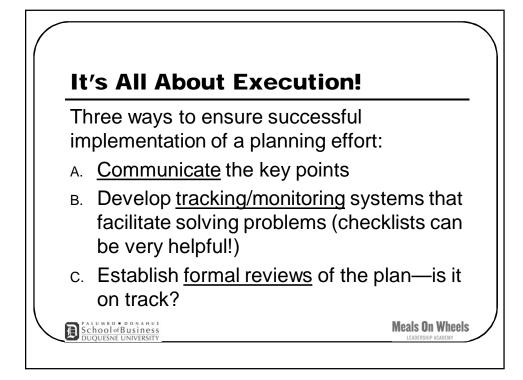


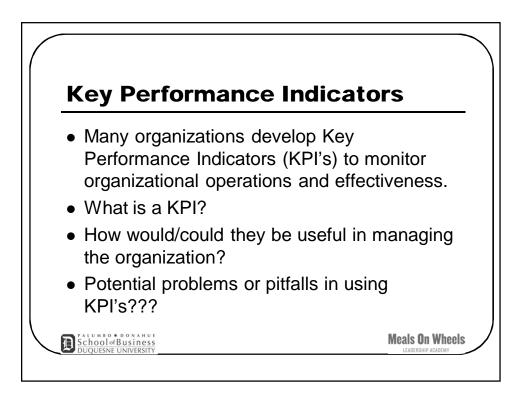


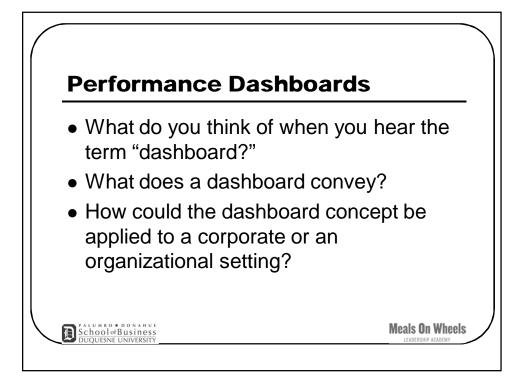


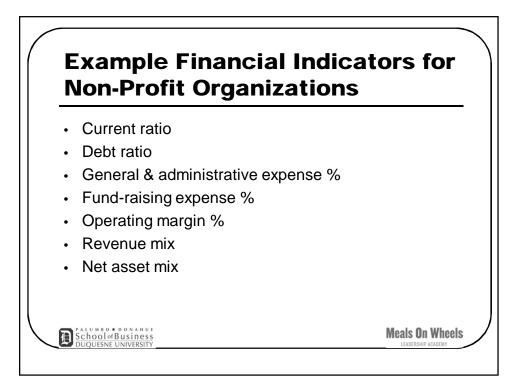


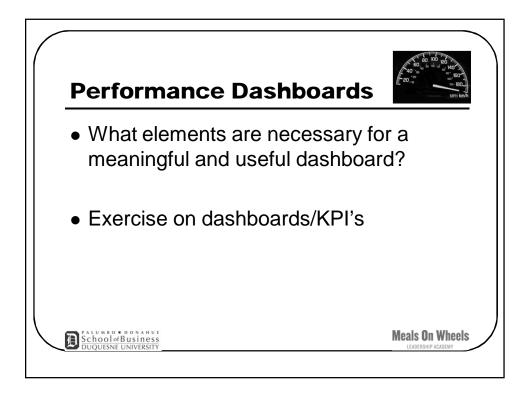


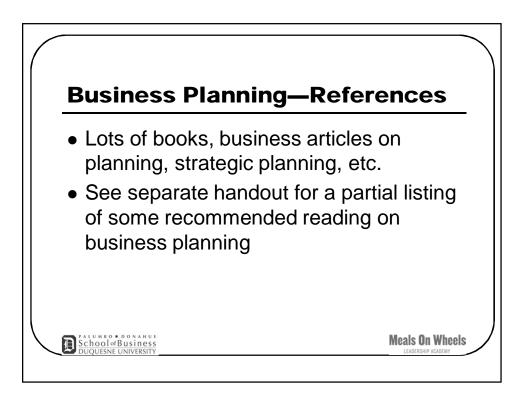


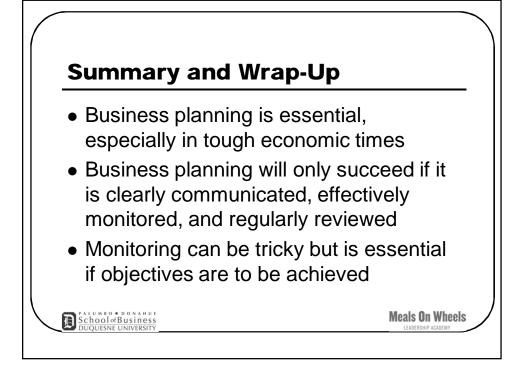


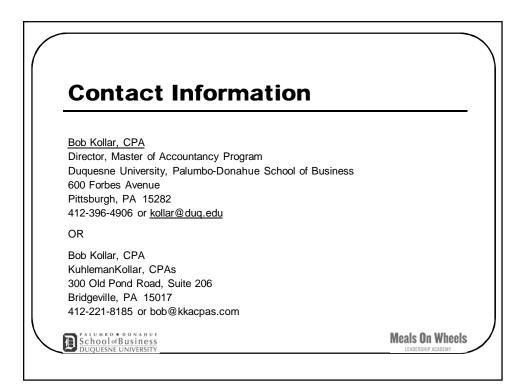




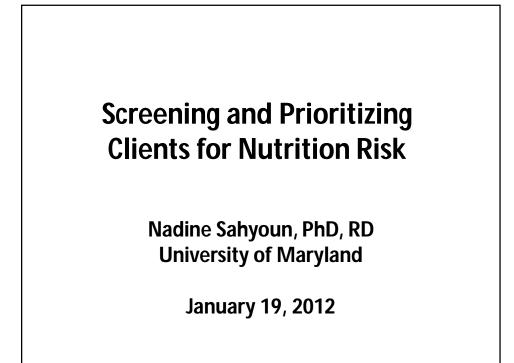


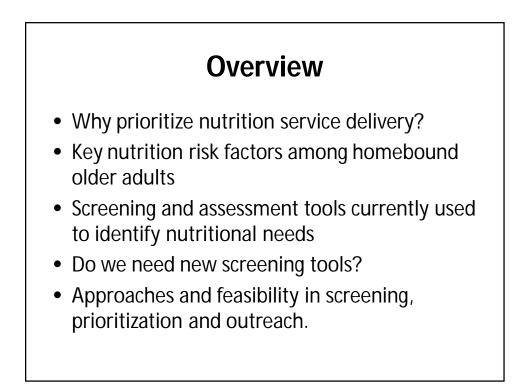






TAB





Purpose of OAANP

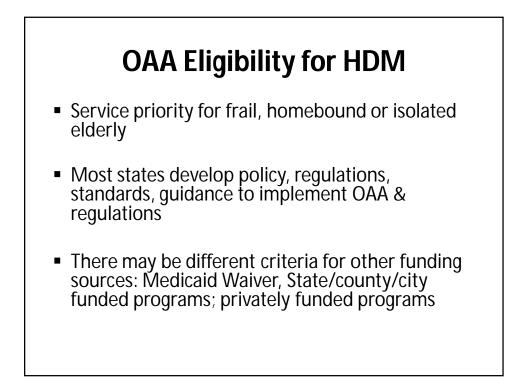
- Decrease hunger and food insecurity
- Promote socialization
- Promote the health and well-being of older individuals and delay adverse health conditions through access to nutrition and other disease prevention and health promotion services.

http://www.aoa.gov/aoaroot/aoa_programs/hcltc/nutrition_services/index.aspx

Who qualifies for HDM?

At minimum, Fed regulations:

- Ages 60 +
- Spouse of any age
- Homebound due to illness, disability, or geographic isolation
- Disabled individual residing with an eligible older adult
- Not means tested
- Criteria somewhat broad





% of Low-Income Older Adults with Specific Characteristics that Did/Did Not Received Meal Services GAO, February, 2011, Based on CPS Analysis					
Characteristic	%	Receive HDMs	Receive Cong Meals	Received Neither	
Food Security					
Food Secure	81.4	3.3	5.7	91.7	
Food Insecure	18.6	7.4	4.9	88.9	
# of Impairments					
0	65.2	2.3	5.1	93.1	
1	18.0	3.6	6.3	91.2	
2+	16.8	11.5	6.4	83.3	
Social Isolation					
Less isolated	31.8	2.5	6.1	92.1	
More isolated	41.4	5.0	5.0	91.0	
Missing	26.8	4.5	5.8	90.3	

Funding				
Year of funding	Home-Delivered Nutrition Services	Congregate Nutrition Services		
FY 2006	181,780,000	385,054,000		
FY 2007	188,305,000	398,919,000		
FY 2008	193,858,000	410,716,000		
FY 2009	214,459,000	434,269,000		
FY 2010	217,676,000	440,783,000		

Older Americans Act Unmet Need for Services

- 79% of AAAs saw increased requests for HDM
- 47% of AAAs saw increased requests for congregate meals since the start of the economic downturn
- 22% of AAAs were unable to serve all clients who requested HDMs & 5% of agencies were unable to serve all who requested congregate meals

US Accountability Office, February 2011

AARP Public Policy Institute/NASUAD survey summer 2010

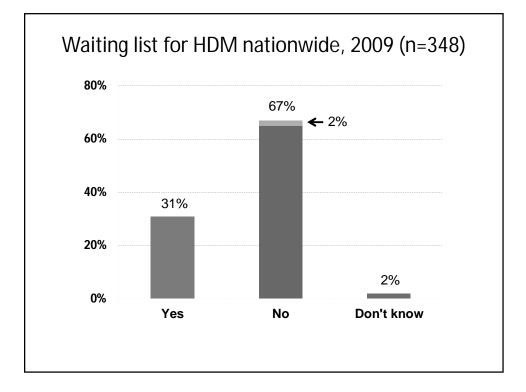
- 31 states cut aging and disability services in FY2010
- 28 states were expecting to cut those services in FY 2011
- > 50% of states increased demands for HDM, and other programs for older adults
- Expiration of Funds from the American Recovery and Reinvestment Act (ARRA) stimulus funds

 $\label{eq:linear} http://www.nasuad.org/documentation/nasuad_materials/weathering_the_storm/weathering_the_storm.pdf$

AARP Public Policy Institute/NASUAD survey summer 2010

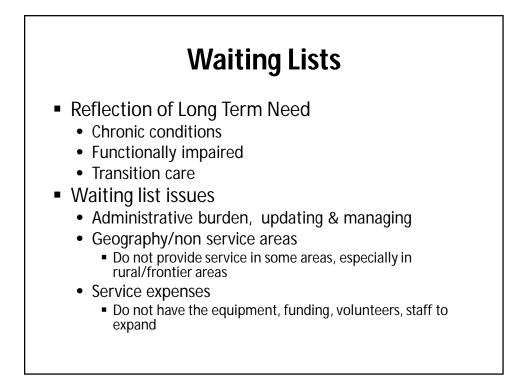
- States indicated that in 2011 they would be :
 - Cutting services
 - Eliminating programs
 - Starting waiting lists

 $http://www.nasuad.org/documentation/nasuad_materials/weathering_the_storm/weathering_the_storm.pdf$



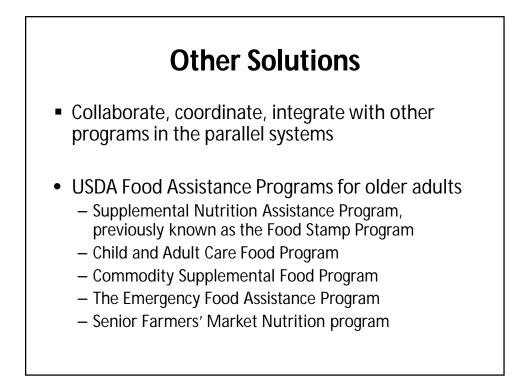
Waiting Lists

- AoA does not require the reporting on waiting list data
- Some states require reporting of waiting list data
- No uniform agreement on criteria for waiting list
- Reflection of Short Term Need
 - Acute illness
 - Hospital/rehabilitation discharge
 - Transition care



Why Prioritize Services Among Individuals Who Are Eligible?

- Increasing demand, increasing need
- Shrinking budget (public/private resources)
- All states will continue to face severe budgetary issues in FY2012 and beyond
- Prioritization used by USDA food assistance programs
- Desire to provide services to most needy
- Demonstrate accountability
- Demonstrate need



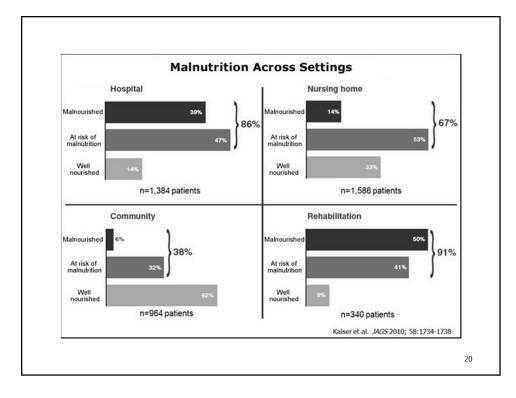
Other Solutions

- Collaborate, coordinate, integrate with other programs in the parallel systems
 - OAA Title III B service: homemaker
 - State 1915 Medicaid Waiver programs
 - USDA Food Assistance Programs
 - Utilization of private pay or fee for service

How to Prioritize?

- Purpose of HDM
 - Decrease hunger and food insecurity
- Assessing eligibility—broad criteria
- Assessing need
- Providing service to the most needy

What Do We Mean by "Need" ?



Malnutrition

- Most often used in medical/clinical situations
- Indicative of poor clinical outcomes
- May be associated with both overweight/obesity AND underweight/undernutrition
- Influences
 - Health, mortality, morbidity
 - Functionality
 - Quality of life
 - Health care costs

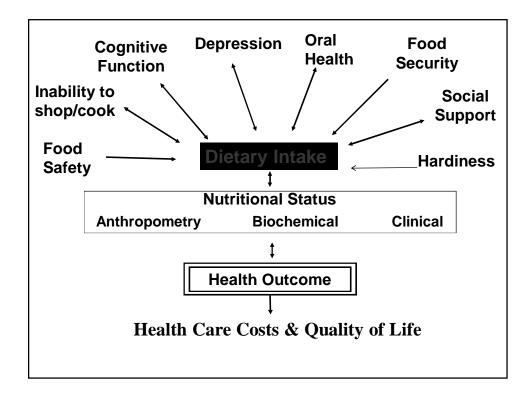
OAA Nutrition Program Purposes

- The purpose of the OAA Nutrition Program is NOT to:
 - Determine malnutrition
 - Treat malnutrition
- Purposes
 - Decrease food insecurity & hunger
 - Promote socialization
 - Promote health & well-being
- Grants for Congregate Nutrition Services and Home-Delivered Nutrition Services are allocated to States and Territories by a formula based on their share of the population aged 60 and over.
- Services: meals, nutrition education, nutrition counseling, nutrition screening & assessment

Older Americans Act More Should Be Done to Measure the Extent of Unmet Need for Services

- Definition of Need
 - AoA does not provide a standardized definition of need or unmet need
 - AoA does not provide measurement procedures for need or unmet need that states are required to use
 - States use a variety of approaches to measure need & measure unmet need to varying extents
 - No agency that GAO spoke with could estimate the number of older adults in need or the level of unmet need
- Recommended Action
 - GAO recommended that AoA study definitions & measurement procedures for need & unmet need

Us Government Accountability Office, February 2011



Risk Factors that determine who is most at need

Risk factors:

- Physiologic --
 - Having 2+ chronic diseases
 - Inability to shop and cook
 - Recently hospital-discharged
 - Involuntary weight loss
 - Cognition
 - Oral health
- Economic
 - Income
 - Food security
- Psychological --
 - Depression
 - Live alone
 - Dementia

How do we determine who is most at need for nutrition services?

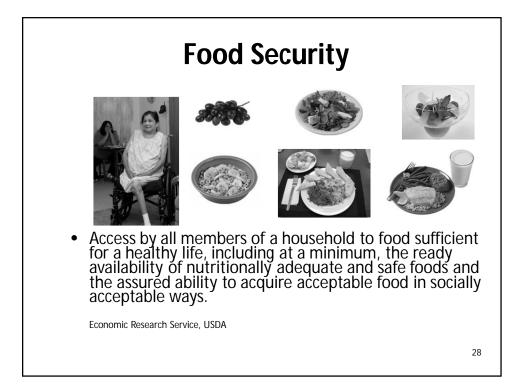
Risk factors:

- Physiological --
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 - Involuntary weight loss
 - Cognition
 - Oral health
- Economic
 - Income
 - Food security
 - Psychological --
 - Depression
 - Live alone
 - Dementia

Nutrition Risk Factors

Functionality

- · Activities of daily living
 - Ability to feed oneself
- Instrumental activities of daily living
 - Ability to shop
 - Ability to cook and prepare meals
- Food Security
- Social Isolation



Social Isolation

- Family/Community Resources
 - Living arrangements
 - Living alone
 - Marital status
 - Family caregiver
 - Neighbors/friends
 - Elder abuse, self-neglect

How do we assess need?

- Available tools—
 - Are the available tools adequate to assess need for a meal?
 - What tools do you use?????
- New tools -
 - do we need to develop them?

Nutrition Screening Nutrition Assessment

- Nutrition Screening
 - Process of identifying individuals at risk for poor nutritional status
 - · Short process, limited prioritized questions
 - Performed by non healthcare professional
- Nutrition assessment
 - Process of determining an individuals' nutritional status
 - Long process, includes medical history, diet history, physical examination, anthropometric parameters, laboratory values, economic, food access, IADL/ADL impairments, individual /family information
 - Performed by a healthcare professional e.g. dietitian

Expected Outcomes of Nutrition Screening & Assessment

- Screening
 - Determination of need
 - Prioritizing of individuals based on need
 - Research informed
- Assessment
 - Individualized nutrition care plan
 - Determination & implementation of appropriate interventions
 - Research informed
 - Interventions available under OAA: meals, nutrition education & nutrition counseling

Characteristics of Effective Screening Tools

- Quick & simple
- Inexpensive
- Able to be implemented in any setting
- Easily administered with minimal nutrition expertise
- Collection of relevant data, based on research/evidence
- Reliable, valid, reproducible results
- Determines the need for assessment & interventions
- Facilitates early interventions

Abbott Laboratories presentation, February, 2007; Nutrition Care of the Older Adult, American Dietetic Association, 2009

Nutrition Screening & Assessment Tools

Many screening tools, depends on where it is used

- Nutrition Screening Initiative (NSI)
 - DETERMINE Your Nutritional Risk
 - Level 1, Level 2
- Mini-Nutritional Assessment (MNA)
- Malnutrition Universal Screening Tool (MUST)

Nutrition Screening Initiative Checklist (NSI)

- Public Awareness Purpose: to increase awareness of nutrition risk factors by community dwelling older adults
- Not designed as a clinical tool, not designed to measure malnutrition
- Level 1 Screen to be used by social service professionals in community programs to determine nutrition risk & community interventions
- Level 2 Screen to be used as an assessment by health care professionals in clinical settings
- Developed by the NSI, a collaborative group of the American Dietetic Association, the American Academy of Family Medicine, and the National Council on the Aging
- Funded by Abbott Laboratories

Nutrition Screening Initiative Checklist (NSI)

- AoA does not use the NSI Checklist to determine malnutrition
- AoA does not use the NSI Checklist as a Performance Measurement Tool
- AoA uses the NSI Checklist to characterize the population served
- Easy to use tool, can be completed by older adults themselves in congregate settings
- Ways to use NSI data
 - Develop interventions to match the questions
 - Use to determine need for nutrition assessment or nutrition counseling
 - Use in budget justifications and compare with previous data

Mini-Nutritional Assessment (MNA)

- Purpose: To screen for malnutrition or risk of malnutrition
- Reliable, valid, sensitive clinical tool
- Recommended for clinical use as part of a Comprehensive Geriatric Assessment (CGA)
- Developed & funded by Nestle

Food Security Measurement Tool 6 Question Module

30 Day Time Period

- Questions 1 & 2:
 - During the last 30 days, how often was this statement true:
 - The food that we bought just didn't last, and we didn't have money to get more.
 - We couldn't afford to eat balanced meals.
 - Response categories:
 - Often
 - Sometimes
 - Never

Food Security Measurement Tool 6 Question Module

30 Day Time Period

- Questions 3 & 4:
 - During the last 30 days, did you or other adults in your household ever
 - Cut the size of your meals because there wasn't enough money for food?
 - Skip meals because there wasn't enough money for food?
 - Response categories:
 - Yes, on 3 or more days
 - Yes, on 1 or 2 days
 - No

Food Security Measurement Tool 6 Question Module

30 Day Time Period

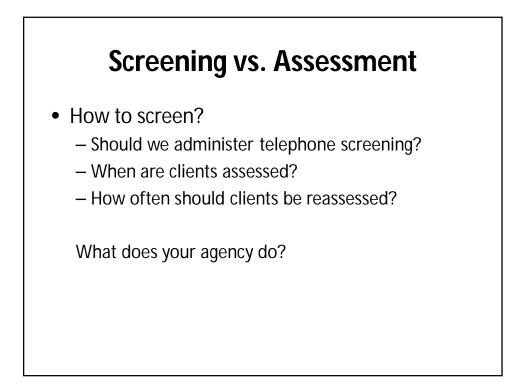
- Questions 5 & 6:
 - In the last 30 days,
 - Did you ever eat less than you felt you should because there wasn't enough money to buy food?
 - Were you ever hungry but didn't eat because you couldn't afford enough food?
 - Response categories:
 - Yes
 - No

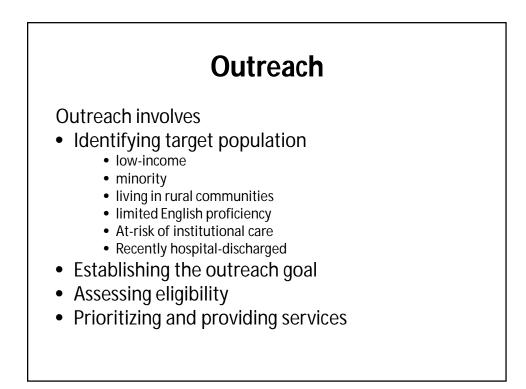
Food Security Status Assessment

- Food security status is assigned as follows:
 - Raw score 0-1 High or marginal food security
 - Raw score 2-4 Low food security
 - Raw score 5-6 Very low food security

When to Screen for OAA Nutrition Programs

- Initial contact ?
 - Enrollment in HDM/Congregate Nutrition Program
 - ADRC
- How often?
 - 4-8 weeks after service initiation for short term participants?
 - 6-8 months after service initiation for long term participants?
- At service reassessment time (6 months, 1 year, 2 years)?
- Who does it?
 - Nutrition Program
 - AAA





Discussion

In your agency:

- What screening tool do you use?
- Do you follow up on screening results?
- How often do you reassess clients?
- Do you have a waiting list?
- Do you prioritize? If so how?
- Should we prioritize? If so how?

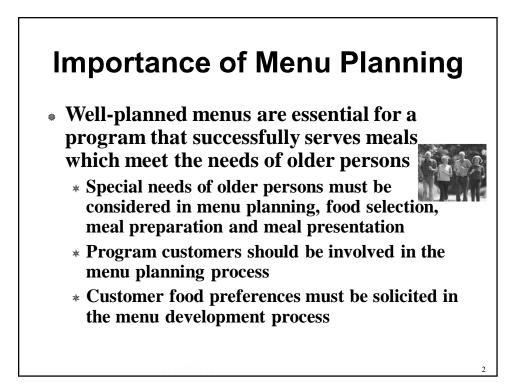
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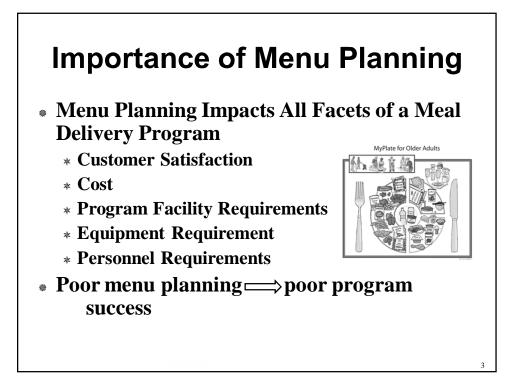
Menu Planning for Customer Satisfaction

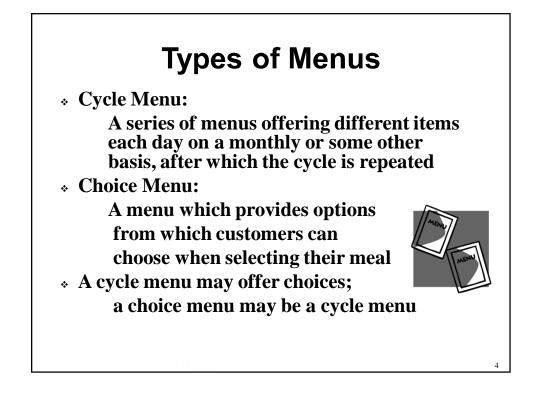


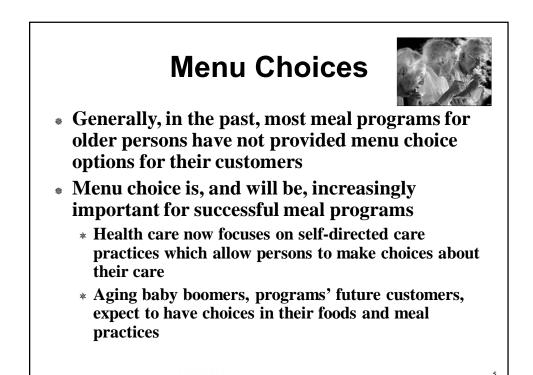
A MOWAA Specialist Certificate Program Workshop

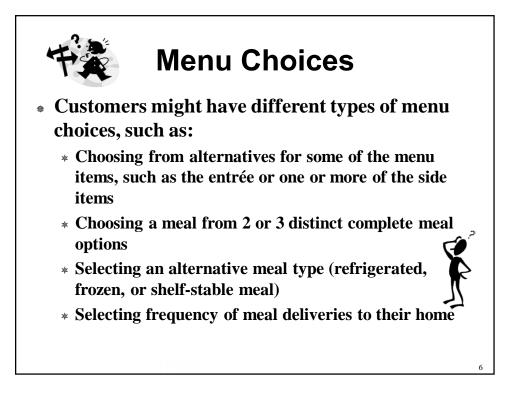
Presented by Audrey C. McCool, EdD, RD, LD











Menu Choices Programs need to start making adjustments NOW so they will be able to cost- effectively implement choice menus.

Factors to Consider in Menu Planning

u Important considerations in menu planning are:

- **u** Customer Satisfaction
- **u** Customers' Nutritional Needs

□ Aesthetic Factors

- **Government and Other Agency Regulations**

□ Cost

D Feasibility Within Program Structure

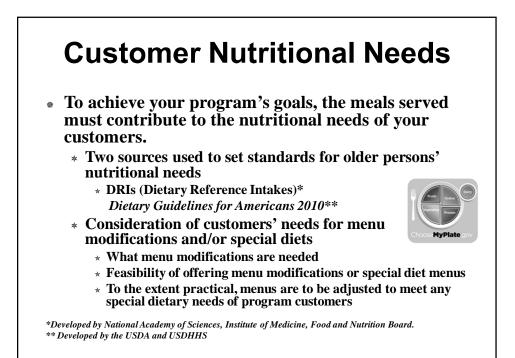




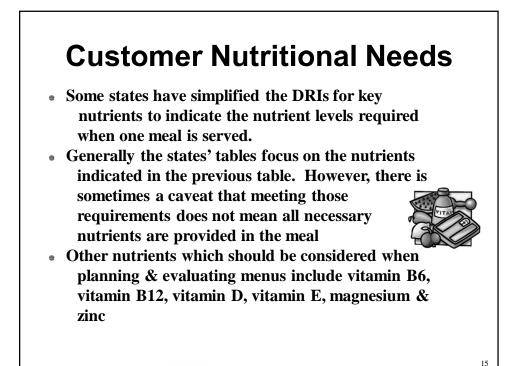








	usto tary R							
Gender	Calories (Estimated Energy Requirement)	Protein (g per kg per day)	Calcium (mg per day)	Vitamin A – (mcg per day)	Vitamin C - (mg per day)	Potas- sium - (mg per day)	Fiber – (g per day)	Sodium - (mg per day)
Males age 51- 70	2750	0.66	800	625	75	4700	30	1300
Females age 51- 70	2200	0.66	1000	500	60	4700	21	1300
Males > age 70	2550	0.66	1000	625	75	4700	30	1200
Females > age 70	2050	0.66	1000	500	60	4700	21	1200
				•	•	•	•	•



	Samp requi			s' po	er mo	eal tai	rget n	utri	ent		
State	Kcal	Pro - g	Vit A – ug	Vit C - mg	Ca - mg	Na - mg	K - mg	Fiber - g	Vit D - IU	Vit B12 - ug	Zn - mg
State #1	600 - 750	≥ 20	250 - 300	25 - 30	≥400	800 - 1000	<u>≥</u> 1500	≥7	not listed	not listed	not listed
State #2	> 550 - 700	14	250	25	400	< 800	1565	>7	200 IU	0.8 ug	2.6
State #3	not listed	>21	not listed	<u>≥</u> 30	<u>≥</u> 400	<u><</u> 1000	<u>></u> 1567	<u>></u> 8	≥2.5 ug (100IU)	not listed	not listed
State #4	685	19	300	30	400	767	1050	9	3.33 ug	0.8 ug	3.7

Customer Nutritional Needs

Additional recommendations from the Food and Nutrition Board, Institute of Medicine, National Academies include:

- Calories should be distributed as follows:
 - \checkmark 45 65% from Carbohydrate; 10-35% from protein; 20-35% from fat
- While consuming a nutritionally adequate diet:
 - ✓ Dietary cholesterol should be as low as possible
 - Trans fatty acids should be as low as possible
 - Saturated fatty acids should be as low as possible
 - Added sugars should be limited to no more than 25% of total energy (though this level of added sugars is not a recommended amount no recommended intake of added sugars has been set)

17

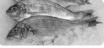
Dietary Guidelines 2010 Key recommendations include: * Maintain calorie balance over time to achieve and sustain a healthy weight * Focus on consuming nutrient-dense foods and beverages ***** Foods and nutrients to increase: * Vegetables and Fruits: Eat a variety of vegetables, especially dark-green and red and orange vegetables, beans, and peas Consume at least half of all grains as whole grains: Increase whole-grain intake by replacing refined grains with whole grains

Dietary Guidelines 2010

- * Foods and nutrients to increase (con't):
 - * Increase intake of fat-free and low-fat milk and milk products

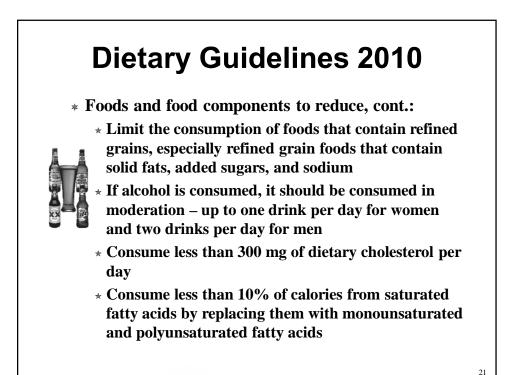


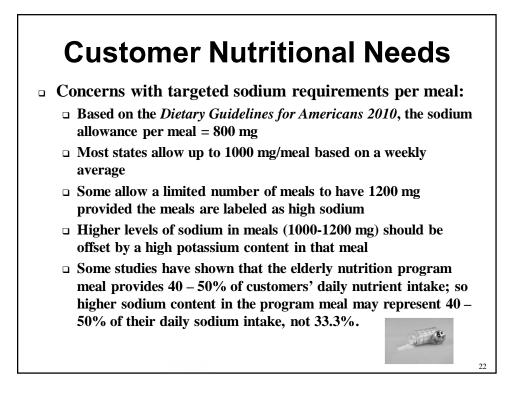
- * Choose a variety of protein foods, including seafood, lean meat and poultry, eggs, beans and peas, soy products, and unsalted nuts and seeds
- * Increase the amount and variety of seafood consumed
- * Use oils to replace solid fats where possible
- * Choose foods that provide more potassium, dietary fiber, calcium, and vitamin D
- * Replace protein foods that are higher in solid fats with choices that are lower in solid fats and calories and/or are sources of oils



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<section-header>
 bietary Guidelines 2010
 * Foods and food components to reduce:
 * Reduce daily sodium intake to less than 2,300 mg/day and further reduce intake to 1,500 mg among persons who are 51 and older and those of any age who are African American or have hypertension, diabetes, or chronic kidney disease
 * Reduce the intake of calories from solid fats and added sugars





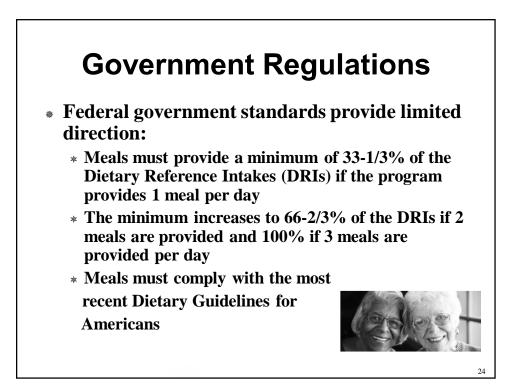
What do these requirements mean for menu planning??

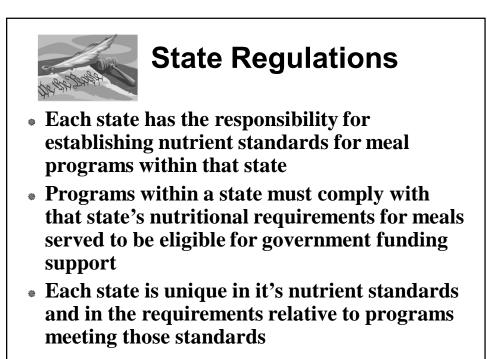
- Working within the parameters of their states' nutrient content guidelines, menu planners should consider innovative ways to incorporate
 - Vegetables, fruits, whole grains, low-fat or fat-free milk, yogurt or fortified soy beverages, seafood, and vegetable oils such as canola, olive, corn, peanut, and soybean

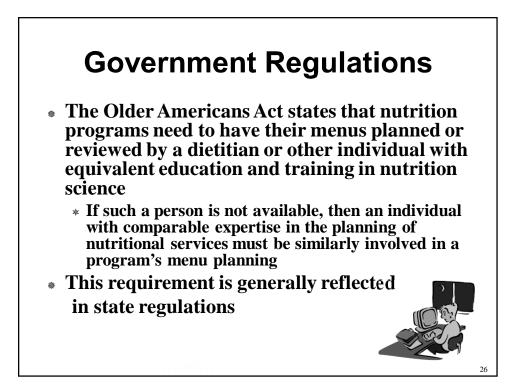


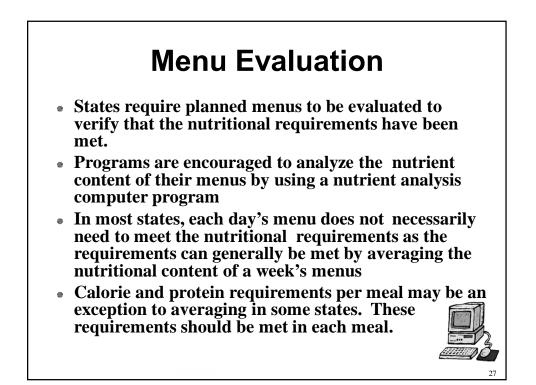
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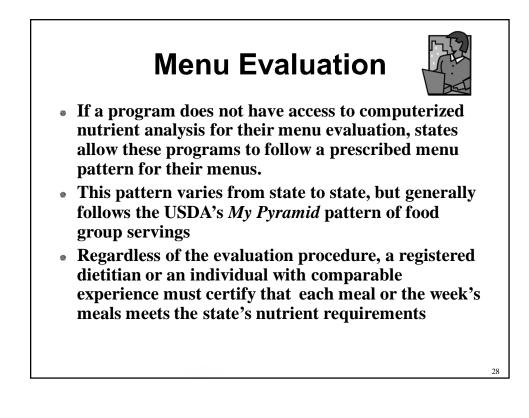
 And find ways to limit foods with added sugars, solid fats – especially trans fats refined grains, and sodium



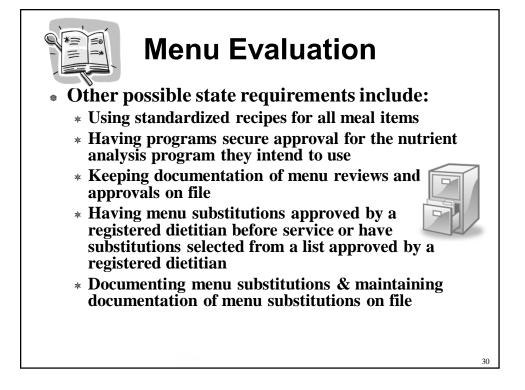


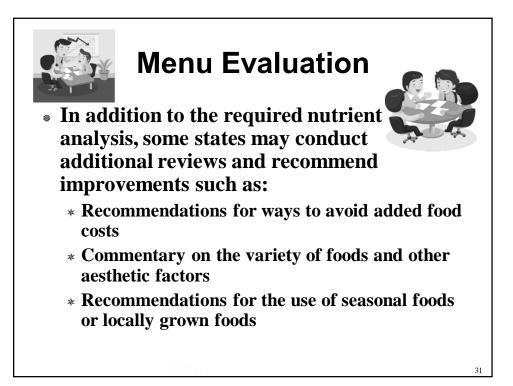


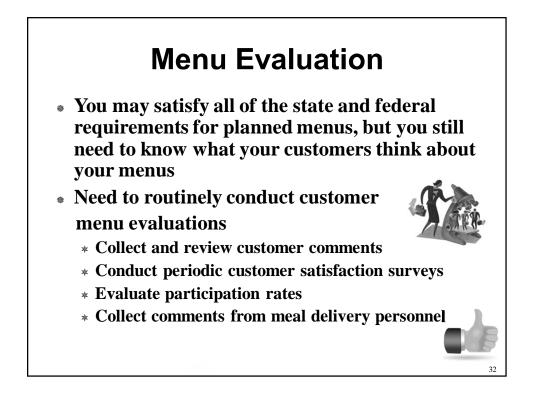




		onent Meal Patte		
Food Group	Required Servings for 550 Calories per Meal	Serving Sizes for 1600 Calorie Level		
Lean meat or beans	1 serving – 2 ounces per meal	2 ounces = 1 serving		
Vegetable	1 – 2 servings	1/2 cup = 1 serving		
Fruit	1 serving	1/2 cup = 1 serving		
Bread or Grain At least ½ whole grain	1-2 servings	1 slice bread = 1 serving; ½ cup of rice or pasta = 1 serving		
Low-fat milk or milk alternate	1 serving	1 cup or measured equivalent		
Fat	optional			
Dessert	optional – limit sweets; use fruit	Select foods high in fiber and low in fat and sugar		

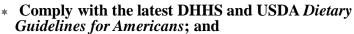




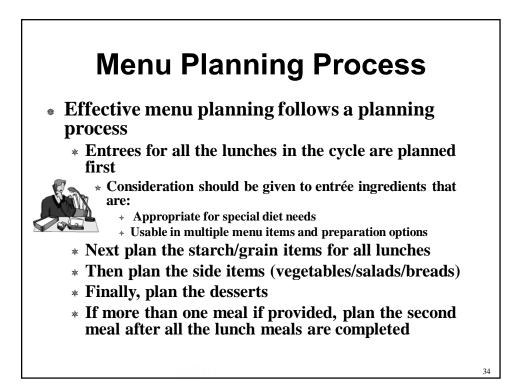


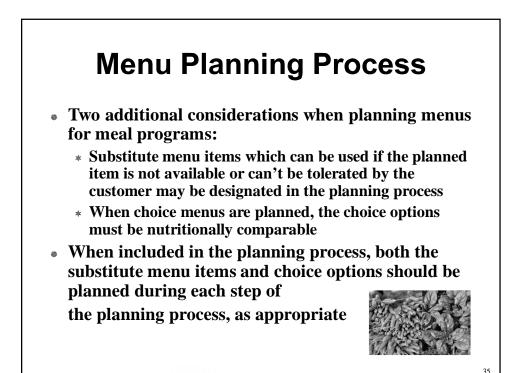
MOWAA Accreditation Nutrition Requirements

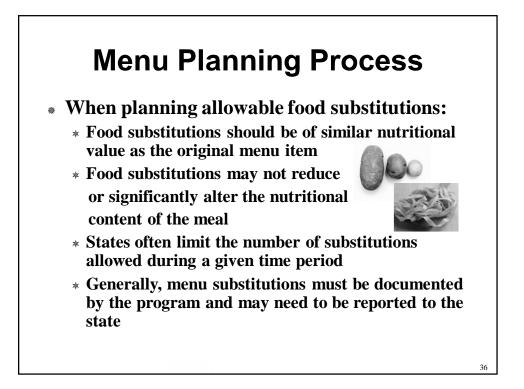
Menus must:



- * Provide a minimum of 25% of the latest Dietary Reference Intakes for calories, protein, calcium, vitamin A, vitamin C, potassium, and fiber with sodium less than 1,200 mg if one meal is provided.
- * If 2 meals/day are provided, them the meals must provide 50% of the DRIs and sodium less than 2000 mg;
- * If 3meals are provided, then 75% of the DRIs must be provided with sodium less than 2,300 mg.
- * Fat content of the meals will average 35% or less of the total calories per meal.



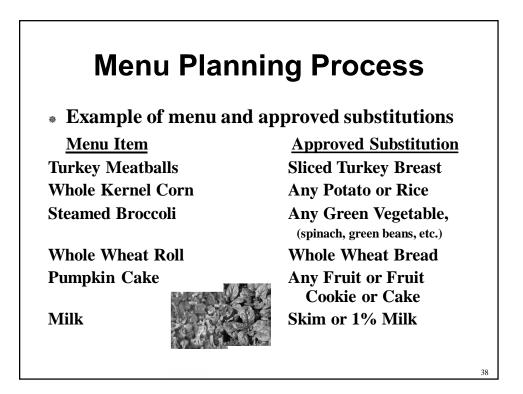


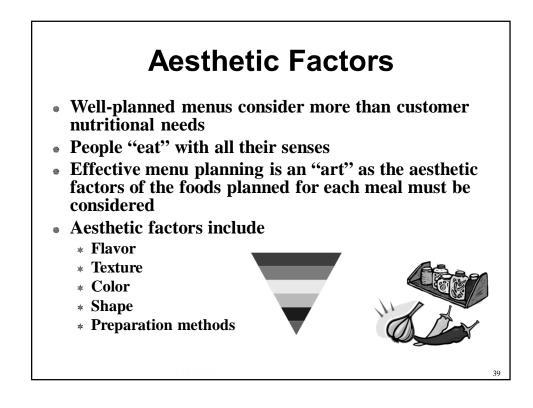


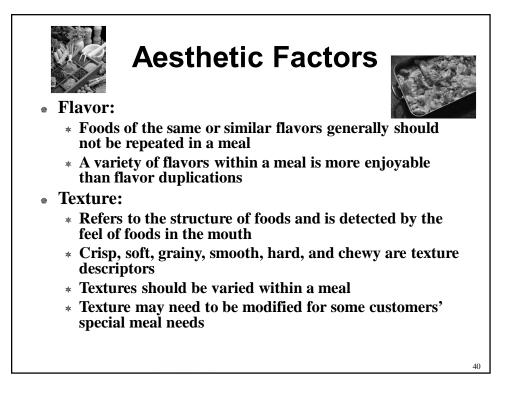
Menu Planning Process

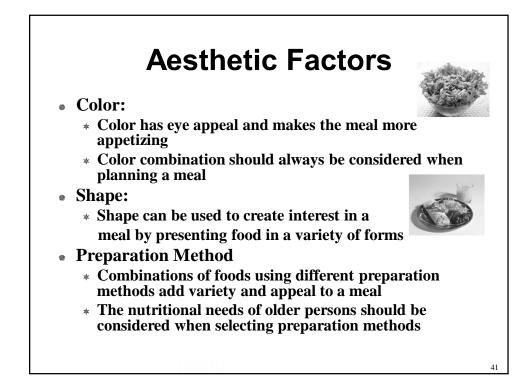
- Since food substitutions often need to be approved prior to service, incorporating allowable food substitutions into the menu planning process can save time and effort when substitutions are needed
- Some states or area agencies have written lists of acceptable food substitutions for the several types of menu items

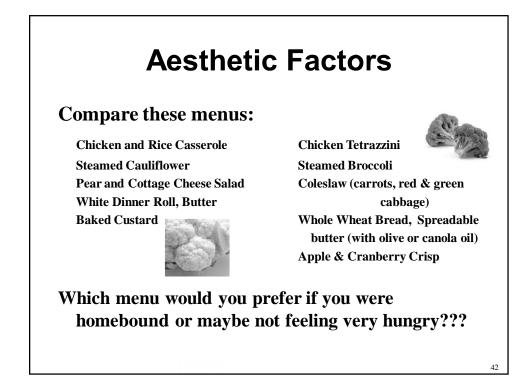
* Lists are an alternative to planning menu item substitution options as a part of the menu planning process

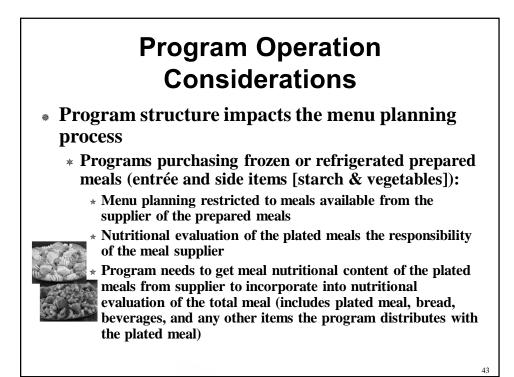


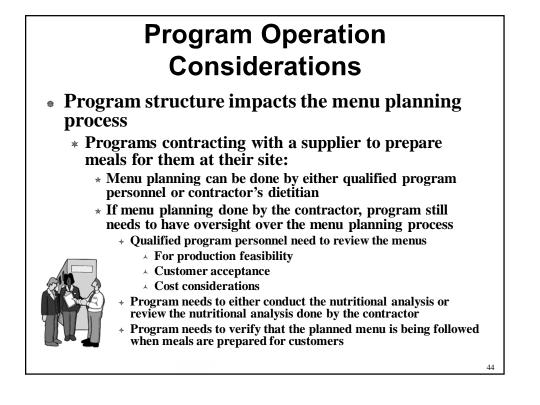


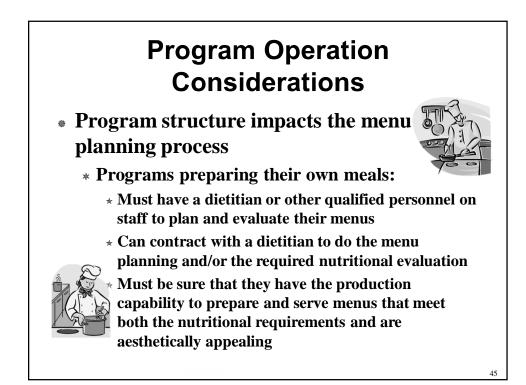


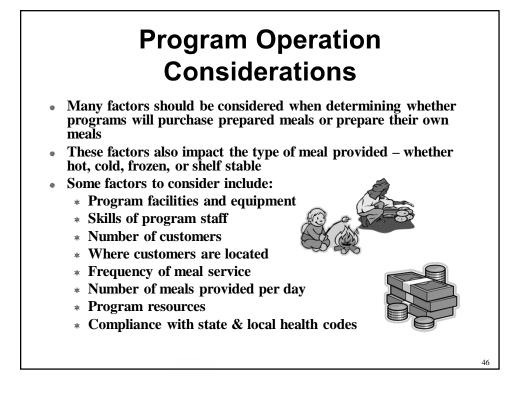










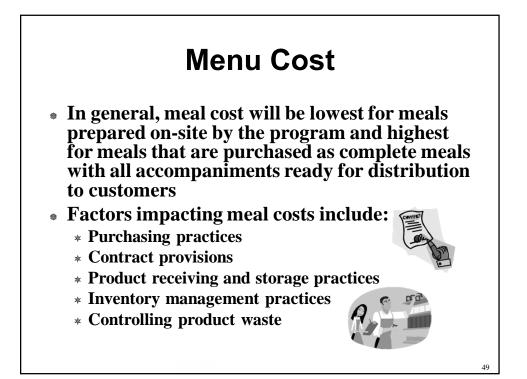


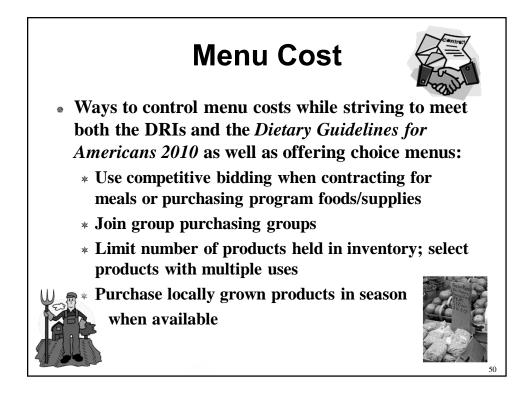
Program Structure

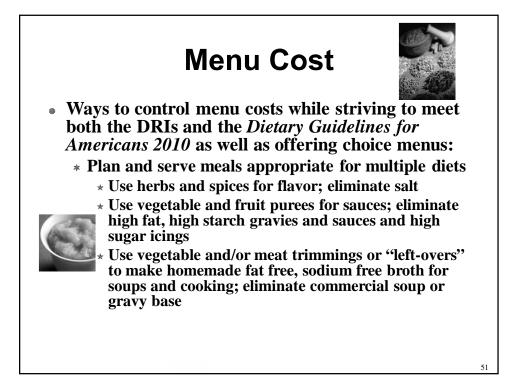
 The factors impacting the structure of a meal program and decisions regarding the type of meal to provide to customers and the menu planning process will be discussed in tomorrow's workshop entitled

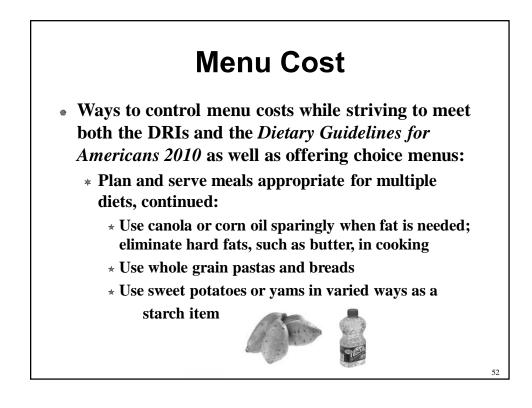
Designing Meal Delivery Systems

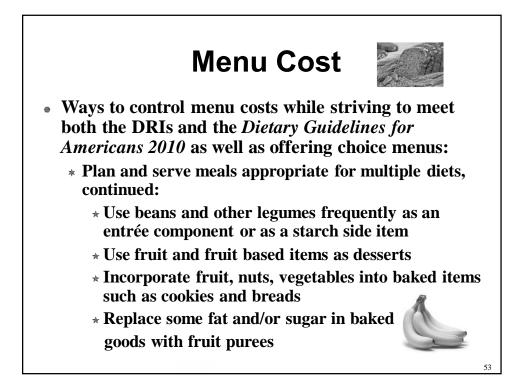
Menu Cost Cost is always a consideration in menu planning However, just serving the lowest cost meal to program customers may be self-defeating for a program Cost effective menus balance cost with meal quality, nutritional content, and customer satisfaction Low cost meals which customers don't eat mean programs do not meet program goals and/or may soon be "out of business"

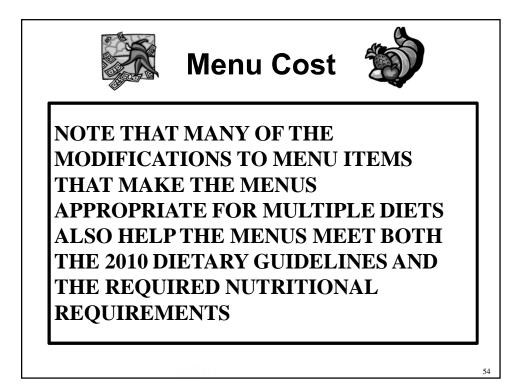








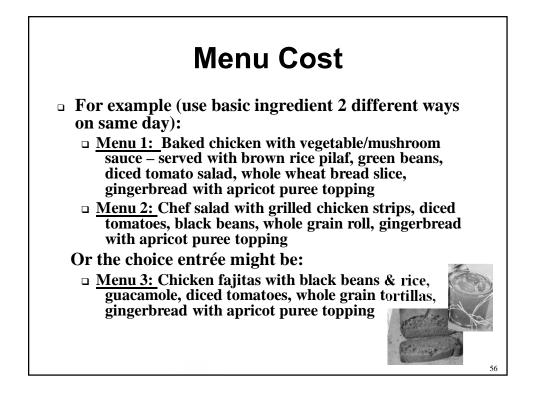


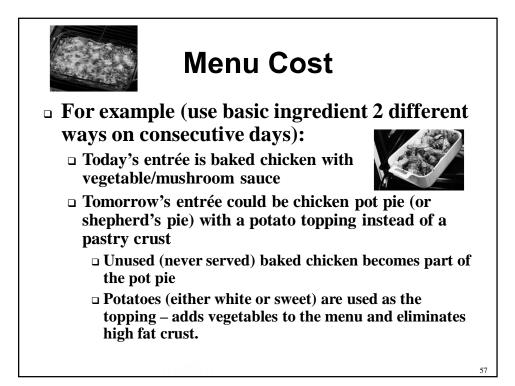


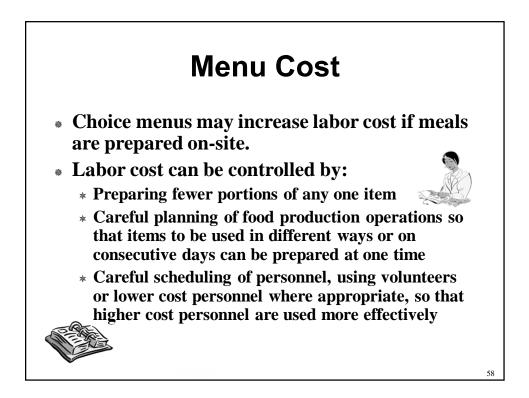
Menu Cost

- Ways to control menu costs while striving to meet both the DRIs and the *Dietary Guidelines for Americans 2010* as well as offering choice menus:
 - * Use basic ingredients in different ways for choice options (if preparing meals on-site for service)
 - * If different ingredients are desired for choice options; then use basic ingredients in different ways on consecutive days
 - Incorporate lower cost protein items
 (beans, legumes, eggs) as choice entrees
 (use fewer red meat entrees)

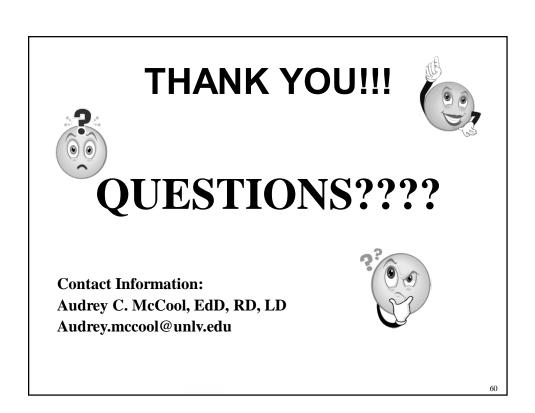






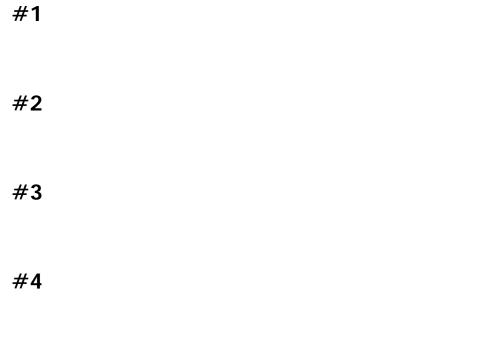


Menu Planning: A Challenge Planning menus that are cost effective, pleasing to the program's customers, and meet the required nutritional standards is a challenging task Quality menus are essential to a successful meal program, and careful menu planning should be a program priority



TAB





#5



Top Priorities For My Program for the Next Five Years





What Action Steps Can I Accomplish-

Within the next six months?

#1

#2

Within the next 12 months?

#1

#2





RESEARCH BRIEF NUMBER 1 • JULY 2010

Aging in Place: Do Older Americans Act Title III Services Reach Those Most Likely to Enter Nursing Homes?

by Norma Altshuler and Jody Schimmel, Mathematica Policy Research

Since the Older Americans Act (OAA) was passed in 1965, the Administration on Aging (AoA) has provided services to elderly Americans, helping them maintain independence and remain in their own homes. Through its "Aging Services Network," including State Units on Aging (SUAs), Area Agencies on Aging (AAAs), and tribal partners, AoA works to provide services designed to mitigate the effects of declining physical health and functioning experienced by frail older adults. This brief, the first in a series that presents findings from AoA's National Survey of OAA Program Participants, assesses whether Title III services are reaching adults at higher risk of nursing home entry than the elderly population overall. The observed differences between Title III participants and other older adults point to the effective targeting of services by the Aging Services Network.

Background

Increasing emphasis is being placed on helping older individuals in declining health or with disabilities to maintain their independence and remain living in the community. Nonetheless, nursing home stays among the elderly are common. In 2008, 2.8 million adults over the age of 65, or 7.2 percent of the over-65 population, had at least one stay in a nursing home (Centers for Medicare & Medicaid Services 2009).

AoA services help the elderly "age in place"—or remain in their homes and communities even as their health and functioning decline—by targeting the most vulnerable older adults. OAA Title III services such as case management, home-delivered meals, and homemaker services serve some of the frailest elderly, many of whom are homebound. The National Family Caregiver Support Program (NFCSP), also part of Title III, provides support including information and assistance and respite services to those who care for frail elderly.¹ Title III also covers transportation, congregate meals, preventative health, and other community-based services, which provide important avenues for community and social involvement.

What Is The Aging Services Network?

The Aging Services Network provides a range of community-based services—home-delivered and congregate meals, case management, transportation, and homemaker and caregiver support. Such services enhance both the quality of life and social interaction, and reduce the effects of disability for homebound and more active seniors. Funded under Title III of the OAA, services are available to individuals age 60 and older, though delivery is targeted to the most vulnerable elderly.

Nursing Home Predictors

Many studies have explored key determinants of nursing home entry. Drawing on two recent, comprehensive analyses of research on nursing home predictors (see Methods section), we identified the following factors as leading to increased risk of nursing home entry:

- *Demographic characteristics*: Older individuals and those who are non-Hispanic white
- Socioeconomic status: Individuals with low incomes
- *Health status and physical functioning*: Those with certain health conditions (such as cognitive impairment, cancer, high blood pressure, diabetes, and a history of strokes and falls) and those who have difficulty performing activities of daily living

¹Caregivers of adults age 60 and over are eligible for support under the NFCSP, even if they are under 60. Because of differences in the age profile of caregivers and other Title III participants, we focus on NFCSP care recipients.

- *Prior health care utilization*: Individuals who have spent time in the hospital or in a nursing home
- *Living arrangements and family structure*: Those who live alone (including widowed and divorced individuals), do not own their home, and have fewer children than their peers not in nursing homes
- Availability of support: Individuals who lack caregiver support

Respondents to AoA's Fifth National Survey of Program Participants, conducted in 2009, provided information about many, though not all, of these predictors. Using this information and nationally representative data about all older adults eligible to receive Title III services by virtue of age, we compared participants receiving Title III services to older Americans across the U.S. ages 60 and older to assess relative risk of nursing home entry. Although we examine each characteristic in isolation, many characteristics of Title III participants are correlated. For example, the oldest are also usually the least healthy and most likely to be widowed or live alone.

Are Title III Participants at Greater Risk?

Title III participants share many of the characteristics that make older Americans more vulnerable to nursing home admissions (Table 1). Title III participants are older than their peers nationally. In each surveyed group, at least 5 out of 10 (and, in most cases, 7 out of 10) are age 75 or older, compared with only 35 percent of the national elderly population. Title III participants are also more likely to live in poverty and not be married. However, the racial and ethnic profile of Title III participants is similar to that of older adults nationally.

People who live by themselves are at higher risk of nursing home entry because they may be isolated or lack supports to assist with activities of daily living (ADLs). In part because of this risk, AoA targets services to those who live alone, and participants in many Title III programs are more likely to live by themselves than older Americans nationally (Figure 1). Between 48 and 69 percent of participants receiving case management; congregate or home-delivered meals; or homemaker

(Percentages)							
	National population age 60 and older	Case management	Congregate meals	Home-delivered meals	Homemaker services	Transportation services	NFCSP care recipients
Age							
60–64	29	8	10	9	2	10	3
65–74	38	29	33	22	24	28	17
75–84	24	40	39	40	37	36	39
85 or older	8	22	18	30	36	26	39
Race and ethnicity							
Non-Hispanic white	79	74	80	76	78	77	N/A
Other	21	26	18	23	19	22	N/A
Marital status							
Married	60	28	38	25	13	13	N/A
Not married	40	71	61	74	87	86	N/A
Income relative to poverty							
Below	7	29	14	24	25	28	N/A
At or near	8	31	19	28	46	24	N/A
Above	85	26	51	35	21	35	N/A
Unknown	N/A	13	16	13	8	13	N/A

Table 1: Demographic and Socioeconomic Characteristics, by Title III Program and Nationally (Percentages)

Source: Fifth National Survey of OAA Program Participants (2009); Current Population Survey (2009).

Notes: Data not available for care recipients because caregivers are the direct AoA participants. Caregivers have different age eligibility criteria than other participants and are therefore much younger and not directly comparable to other service categories. Not married includes those who have never been married, as well as those who are widowed, divorced, or separated. See Methods section for detail on construction of the poverty measure.

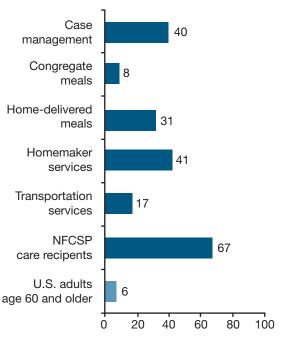
or transportation services live alone, compared with a national average of 27 percent of adults age 60 and older. Title III participants are also less likely to live with a spouse; between 13 and 38 percent of participants live with a spouse, compared with 60 percent of all Americans age 60 and older (not shown). Only 17 percent of Title III care recipients live alone, in part because about 7 in 10 live with the person who is caring for them and receiving NFCSP caregiver support services.

Figure 1: Percentage Living Alone, Title III Participants and Those Age 60 and Older Nationally Case 55 management Congregate 48 meals Home-delivered 56 meals Homemaker 69 services Transportation 68 services NFCSP 17 care recipents U.S. adults 27 age 60 and older 100 n 20 40 60 80

Source: Fifth National Survey of OAA Program Participants (2009); Current Population Survey (2009).

People who have difficulty performing three or more ADLs are at increased risk of nursing home placement, and Title III participants—especially those receiving home-delivered meals, case management, homemaker services, and NFCSP care recipients—are much worse off than the national population in this regard (Figure 2). For example, compared with less than six percent of the national population age 60 and older with three or more ADLs, participants in these three services are six to eight times more likely to have this level of functional limitations. In general, Title III participants also have a higher average number of difficulties with ADLs, and more have been diagnosed with health conditions like stroke and diabetes, which also make nursing home entry more likely (not shown).

Figure 2: Percentage Reporting Difficulty with Three or More ADLs, Title III Participants and Those Age 60 and Older Nationally



Source: Health and Retirement Study (2008); Fifth National Survey of OAA Program Participants (2009). Note: Difficulty with three or more ADLs based on six ADLs con-

tained in both data sources; eating, bathing, dressing, using the toilet, getting in and out of bed, and walking across a room.

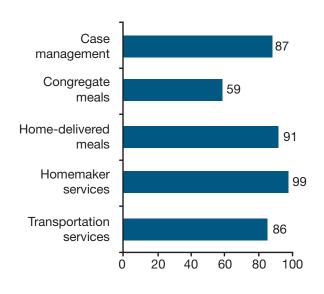
Title III participants share patterns of prior health care use with other older adults that may put them at increased risk of a nursing home stay. Nationwide, 17 percent of adults over 60 spent at least one night in the hospital in the past year, compared to between 20 and 42 percent of Title III participants (not shown). In addition, many Title III participants had nursing home stays in the past year; ranging from 5 percent of congregate meals participants to 16 percent of case management participants (not shown). Unfortunately, there is no directly comparable national statistic for the population over age 60. However, as mentioned previously, 7 percent of the over-65 population had at least one nursing home stay in 2008.

Do Services Support Aging in Place?

Title III participants report that AoA services are important in allowing them to remain in their homes (Figure 3). More than 85 percent of those receiving homemaker services, case management, transportation, and homedelivered meals said this assistance helped them remain at home. Congregate meal participants were less likely to report this effect of services, though a majority still reported services helped them to remain in their homes. The difference between congregate meals and other participants possibly exists because the former tend to be younger, in overall better health, and less reliant on this help to maintain independence.

Caregiver support services also help care recipients avoid institutionalization. Most care recipients benefitting from the NFCSP live with a caregiver or their family, and 41 percent of caregivers said that without the NFCSP, the care recipient would not live in the same residence. Further, 32 percent said that the care recipient would be in a nursing home or assisted living facility without caregiver services (not shown).

Figure 3: Percentage Reporting That Services Allow Them to Remain in Their Homes, Title III Participants



Source: Fifth National Survey of OAA Program Participants (2009).

Conclusions and Implications

Title III participants are at higher risk of nursing home placement than others in their age group nationally, based on common predictors of nursing home entry. Those who receive homemaker services, home-delivered meals, and case management appear especially vulnerable; this likely reflects AAAs' targeting of services to those most in need. Even though they receive extensive supports from friends and family, care recipients are also vulnerable to future nursing home placement, although we do not have as much information about them on key predictors. The design of the National Survey of Program Participants does not allow us to conclude that Title III programs help keep participants out of nursing homes, but does show that most participants believe that the services help. With the number of elderly individuals in the United States increasing, the number wanting to remain independent in their homes will continue to grow. Our analysis confirms that AoA is effectively reaching those most at risk of institutionalization, and that Title III services play an important role in helping elderly adults remain living independently in the community.

Data Sources

The Fifth National Survey of OAA Program Participants was conducted in 2009 by Westat, Inc. via telephone and administered to more than 5,000 individuals who reported receiving Title III services. The survey used a two-stage sample design, first selecting a sample of AAAs, then randomly sampling participants from each selected AAA by service type. The number of participants selected from each AAA was proportional to the number of participants served in that particular program by the sampled AAA. All analyses use sample weights to account for this design. Additional data from and more detailed documentation are available on the AGing Interactive Database (AGID) at http://data.aoa.gov.

This brief looks at participation in six service types: NFCSP caregiver support (1,793 respondents), homedelivered meals (1,030 respondents), homemaker services (459 respondents), transportation services (824 respondents), congregate meals (903 respondents), and case management (486 respondents). Respondents are categorized as program participants based on the program for which they were surveyed, but in many cases, individuals receive services from multiple OAA programs.

Demographic characteristics for the national population of older adults were drawn from the U.S. Census Bureau's 2009 Annual Social and Economic Supplement to the Current Population Survey. Data and documentation for this survey are available at http://www.census. gov/cps/. Health and physical functioning characteristics of the national population of older adults were drawn from the Health and Retirement Study (HRS), a nationally representative panel survey of the noninstitutionalized United States population over the age of 50, funded by the National Institute on Aging and the Social Security Administration. The HRS data used in this brief are based on respondents to the 2008 survey wave who were age 60 and older and residing in the community at the time of the interview. These data were extracted from RAND's analytic file from the HRS, available at http:// hrsonline.isr.umich.edu.

Methods

We identified predictors of nursing home entry using two comprehensive analyses of predictors of nursing home entry (Gaugler et al. 2007; Miller and Weissert 2000). Gaugler et al. used meta-analysis, a more rigorous methodology than Miller and Weissert's synthesis of longitudinal data. Consequently, in the few instances in which these articles differed in identifying predictors of nursing home entry, we deferred to the Gaugler et al. study. We report on factors that the Gaugler et al. study found to be statistically important using the odds ratios reported in Table 2. Gaugler et al. also conducted a meta-analysis using the time to nursing home entry (hazard ratio); in general, these results confirmed the odds ratios results, except for health impairments such as cancer, stroke, high blood pressure, diabetes, and falls, which were only reported in the hazard ratio analysis.

Table 2: Odds Ratios on Selected Predictorsof Nursing Home Entry

Predictor	Odds Ratio (95% Confidence Interval)
Prior nursing home use	3.47 (1.88, 6.37)
Three or more ADLs	3.25 (2.59, 4.09)
Cognitive impairment	2.54 (1.43, 4.51)
Lives alone	1.90 (1.54, 2.35)
Non-Hispanic white	1.61 (1.22, 2.11)
Annual income < \$5,000 (vs. \$5,000 - 10,000)	1.45 (1.15, 1.82)
Available informal caregiver	1.23 (1.04, 1.46)
Formal help	1.23 (0.93, 1.62)
Prior hospitalization	1.19 (1.07, 1.33)
Age	1.11 (1.08, 1.14)
ADLs	1.11 (1.07, 1.16)
Number of children	0.88 (0.80, 0.97)
Homeowner	0.82 (0.71, 0.95)
Married	0.63 (0.41, 0.95)

Source: Gaugler et al. (2008).

Note: Only significant predictors reported.

Gaugler et al. found that income below \$5,000 in 1982 dollars predicts nursing home entry. In today's dollars, this amount is roughly equivalent to \$10,830, the 2009 U.S. Department of Health and Human Services (DHHS) poverty threshold for a one-person household in the mainland United States. Unfortunately, the article does not specify whether this threshold applies to individuals or to households. Because of this ambiguity, we used the federal poverty threshold to compare Title III participants to other Americans over 60. Using respondents' reported income category, household size, and the 2009 DHHS poverty guidelines, respondents were classified as definitely in poverty (reported income category below 100 percent of the federal poverty level [FPL]), definitely not in poverty (reported income category above 100 percent of the FPL), or possibly in poverty (reported income category included values below and above the FPL). A comparable value was created for 2009 Current Population Survey respondents using reported income (adjusted for inflation between the survey years) and household size.

In some cases, data in the categories reported in this brief were not collected for AoA participants. For all of the variables reported, missing data comprised 5 percent or less of total responses. Percentages reported in this brief are based on the full sample of participants and use survey weights to construct population estimates.

References

Centers for Medicare & Medicaid Services (CMS). "Nursing Home Data Compendium, 2009 Edition." Baltimore, MD: CMS, 2009.

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Miller, Edward Alan, and William G. Weissert. "Predicting Elderly People's Risk for Nursing Home Placement, Hospitalization, Functional Impairment, and Mortality: A Synthesis." *Medical Care Research and Review*, vol. 57, no. 3, 2000.

About This Series

This series is funded by AoA, and presents analyses conducted by Mathematica Policy Research using data from AoA's National Surveys of Program Participants. These surveys collect information from Title III participants about their demographics, socioeconomic status, health, and functioning, as well as their service use and client-reported service impact and quality.

For more information about this study, please contact Jody Schimmel, senior researcher at Mathematica, jschimmel@mathematica-mpr.com.

[Begin Six-Item Food Security Module]

Transition into Module :

These next questions are about the food eaten in your household in the last 12 months, since (current month) of last year and whether you were able to afford the food you need.

<u>NOTE</u>: If the placement of these items in the survey makes the transition/introductory sentence unnecessary, add the word "Now" to the beginning of question HH3: "Now I'm going to read you...."

FILL INSTRUCTIONS: Select the appropriate fill from parenthetical choices depending on the number of persons and number of adults in the household.

HH3. I'm going to read you several statements that people have made about their food situation. For these statements, please tell me whether the statement was <u>often</u> true, <u>sometimes</u> true, or <u>never</u> true for (you/your household) in the last 12 months—that is, since last (name of current month).

The first statement is, "The food that (I/we) bought just didn't last, and (I/we) didn't have money to get more." Was that <u>often</u>, <u>sometimes</u>, or <u>never</u> true for (you/your household) in the last 12 months?

- [] Often true
- [] Sometimes true
- [] Never true
- [] DK or Refused
- HH4. "(I/we) couldn't afford to eat balanced meals." Was that <u>often</u>, <u>sometimes</u>, or <u>never</u> true for (you/your household) in the last 12 months?
 - [] Often true
 - [] Sometimes true
 - [] Never true
 - [] DK or Refused

- AD1. In the last 12 months, since last (name of current month), did (you/you or other adults in your household) ever cut the size of your meals or skip meals because there wasn't enough money for food?
 - [] Yes
 - [] No (Skip AD1a)
 - [] DK (Skip AD1a)
- AD1a. [IF YES ABOVE, ASK] How often did this happen—almost every month, some months but not every month, or in only 1 or 2 months?
 - [] Almost every month
 - [] Some months but not every month
 - [] Only 1 or 2 months
 - [] DK
- AD2. In the last 12 months, did you ever eat less than you felt you should because there wasn't enough money for food?
 - [] Yes
 - [] No
 - [] DK
- AD3. In the last 12 months, were you every hungry but didn't eat because there wasn't enough money for food?
 - [] Yes
 - [] No
 - [] DK

[End of Six-Item Food Security Module]

The warning signs of poor nutritional health are often overlooked. Use this checklist to find out if you or someone you know is at nutritional risk.

Read the statements below. Circle the number in the yes column for those that apply to you or someone you know. For each yes answer, score the number in the box. Total your nutritional score.

Determine Your Nutritional Health

	YES
I have an illness or condition that made me change the kind and /or amount of food I eat.	2
I eat fewer than two meals per day.	3
I eat few fruits or vegetables, or milk products.	2
I have three or more drinks of beer, liquor or wine almost every day.	2
I have tooth or mouth problems that make it hard for me to eat.	2
I don't always have enough money to buy the food I need.	4
I eat alone most of the time.	1
I take three or more different prescribed or over-the-counter drugs a day.	1
Without wanting to, I have lost or gained 10 pounds in the last six months.	2
I am not always physically able to shop, cook and/or feed myself.	2
TOTAL	

Total your nutritional score. If it's --

- 0-2 **Good!** Recheck your nutritional score in 6 months.
- 3-5 You are at moderate nutritional risk. See what can be done to improve your eating habits and lifestyle. Your office on aging, senior nutrition program, senior citizens center or health department can help. Recheck your nutritional score in 3 months.
- 6 or You are at high nutritional risk. Bring this checkmor
 list the next time you see your doctor, dietitian or other
 qualified health or social service professional. Talk with them about any problems you may have. Ask for help to improve your nutritional health.

Remember that warning signs suggest risk, but do not represent diagnosis of any condition. Turn the page to learn more about the Warning Signs of poor nutritional health. The Nutrition Checklist is based on the warning signs described below. Use the word <u>DETERMINE</u> to remind you of the warning signs.

Disease

Any disease, illness or chronic condition that causes you to change the way you eat, or makes it hard for you to eat, puts your nutritional health at risk. Four out of five adults have chronic diseases that are affected by diet. Confusion or memory loss that keeps getting worse is estimated to affect one out of five or more of older adults. This can make it hard to remember what, when or if you've eaten. Feeling sad or depressed, which happens to about one in eight older adults, can cause big changes in appetite, digestion, energy level, weight and well-being.

Eating Poorly

Eating too little and eating too much both lead to poor health. Eating the same foods day after day or not eating fruit, vegetables and milk products daily will also cause poor nutritional health. One in five adults skips meals daily. Only 13 percent of adults eat the minimum amount of fruits and vegetables needed. One in four older adults drinks too much alcohol. Many health problems become worse if you drink more than one or two alcoholic beverages per day.

Tooth Loss/Mouth Pain

A healthy mouth, teeth and gums are needed to eat. Missing, loose or rotten teeth or dentures which don't fit well or cause mouth sores make it hard to eat.

Economic Hardship

As many as 40 percent of older Americans have incomes of less than \$6,000 per year. Having less-or choosing to spend less--than \$25 to \$30 per week for food makes it very hard to get the foods you need to stay healthy.

Reduced Social Contact

One-third of all older people live alone. Being with people daily has a positive effect on morale, well-being and eating.

Multiple Medicines

Many older Americans must take medicines for health problems. Almost one half of older Americans take multiple medicines daily. Growing old may change the way we respond to drugs. The more medicines you take, the greater the chance for side effects such as increased or decreased appetite, change in taste, constipation, weakness, drowsiness, diarrhea, nausea and others. Vitamins or minerals when taken in large doses act like drugs and can cause harm. Alert your doctor to everything you take.

nvoluntary Weight Loss/Gain

Losing or gaining a lot of weight when you are not trying to do so is an important warning sign that must not be ignored. Being overweight or underweight also increases your chance of poor health.

Needs Assistance in Self Care

Although most older people are able to eat, one of every five has trouble walking, shopping, buying and cooking food, especially as they get older.

Elder Years Above Age 80

Most older people lead full and productive lives. But as age increases, risk of frailty and health problems increase. Checking you nutritional health regularly makes good sense.



Mini Nutritional Assessment MNA[®]

Last name:	First name:			
Sex:	Age:	Weight, kg:	Height, cm:	Date:

Complete the screen by filling in the boxes with the appropriate numbers. Add the numbers for the screen. If score is 11 or less, continue with the assessment to gain a Malnutrition Indicator Score.

Screening	J How many full meals does the patient eat daily?
A Has food intake declined over the past 3 months due to	0 = 1 meal
loss of appetite, digestive problems, chewing or	1 = 2 meals
swallowing difficulties?	2 = 3 meals
0 = severe decrease in food intake	K Selected consumption markers for protein intake
1 = moderate decrease in food intake	At least one serving of dairy products
2 = no decrease in food intake	(milk, cheese, yoghurt) per day yes □ no □
B Weight loss during the last 3 months	Two or more servings of legumes
0 = weight loss greater than 3kg (6.6lbs)	or eggs per week yes □ no □
1 = does not know	Meat, fish or poultry every day yes. □ no □
2 = weight loss between 1 and 3kg (2.2 and 6.6 lbs)	0.0 = if 0 or 1 yes
3 = no weight loss	0.5 = if 2 yes
C Mobility	- <u>1.0 = if 3 yes</u> <u>1.0</u> .
0 = bed or chair bound	L Consumes two or more servings of fruit or vegetables per day?
1 = able to get out of bed / chair but does not go out	0 = no $1 = yes$
2 = goes out	M How much fluid (water, juice, coffee, tea, milk) is consumed per
D Has suffered psychological stress or acute disease in the	day? 0.0 = less than 3 cups
past 3 months?	0.5 = 3 to 5 cups
0 = yes 2 = no	1.0 = more than 5 cups
E Neuropsychological problems	N Mode of feeding
0 = severe dementia or depression	0 = unable to eat without assistance
1 = mild dementia	1 = self-fed with some difficulty
2 = no psychological problems	2 = self-fed with some unitary
F Body Mass Index (BMI) (weight in kg) / (height in m ²)	O Self view of nutritional status
0 = BMI less than 19	0 = views self as being malnourished
1 = BMI 19 to less than 21	1 = is uncertain of nutritional state
2 = BMI 21 to less than 23	2 = views self as having no nutritional problem
3 = BMI 23 or greater	
	P In comparison with other people of the same age, how does the
Screening score	
	P In comparison with other people of the same age, how does the patient consider his / her health status?
Screening score	 P In comparison with other people of the same age, how does the patient consider his / her health status? 0.0 = not as good
Screening score (subtotal max. 14 points) 12-14 points: Normal nutritional status	 P In comparison with other people of the same age, how does the patient consider his / her health status? 0.0 = not as good 0.5 = does not know
Screening score Image: Constraint of the second status (subtotal max. 14 points) 12-14 points: Normal nutritional status 8-11 points: At risk of malnutrition	 P In comparison with other people of the same age, how does the patient consider his / her health status? 0.0 = not as good 0.5 = does not know 1.0 = as good
Screening score (subtotal max. 14 points) 12-14 points: Normal nutritional status	 P In comparison with other people of the same age, how does the patient consider his / her health status? 0.0 = not as good 0.5 = does not know 1.0 = as good 2.0 = better
Screening score (subtotal max. 14 points) Image: Constraint of the second status 12-14 points: Normal nutritional status 8-11 points: At risk of malnutrition 0-7 points: Malnourished	P In comparison with other people of the same age, how does the patient consider his / her health status? 0.0 = not as good 0.5 = does not know 1.0 = as good 2.0 = better Q Mid-arm circumference (MAC) in cm
Screening score Image: Constraint of the second status (subtotal max. 14 points) 12-14 points: Normal nutritional status 8-11 points: At risk of malnutrition	 P In comparison with other people of the same age, how does the patient consider his / her health status? 0.0 = not as good 0.5 = does not know 1.0 = as good 2.0 = better Q Mid-arm circumference (MAC) in cm 0.0 = MAC less than 21
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TAB

Evaluation – January 18 & 19 Walmart Foundation Senior Nutrition Institute

Please take a moment to evaluate the Senior Nutrition Institute, provided as part of the MOWAA Leadership Academy and give us your feedback.

Please rate each of the Senior Nutrition Institute courses.

	Excellent	Good	Fair	Poor	N/A
Overall course content					
Relevance of content to your position					
New techniques or best practices provided					
Delivery of course content					
Time allowed for questions and discussion					

Surviving in a Changing Environment

Designing Food Delivery Systems

	Excellent	Good	Fair	Poor	N/A
Overall course content					
Relevance of content to your position					
New techniques or best practices provided					
Delivery of course content					
Time allowed for questions and discussion					

Business Planning

	Excellent	Good	Fair	Poor	N/A
Overall course content					
Relevance of content to your position					
New techniques or best practices provided					
Delivery of course content					
Time allowed for questions and discussion					

Screening and Prioritizing Clients for Nutrition Risks

	Excellent	Good	Fair	Poor	N/A
Overall course content					
Relevance of content to your position					
New techniques or best practices provided					
Delivery of course content					
Time allowed for questions and discussion					

Menu Planning for Customer Satisfaction

	Excellent	Good	Fair	Poor	N/A
Overall course content					
Relevance of content to your position					
New techniques or best practices provided					
Delivery of course content					
Time allowed for questions and discussion					

What did you think about the level of the courses in this Institute overall?

[] Just right [] Too basic [] Too advanced

Did the topics covered have practical applicability for implementation in your program?

[] Topics were extremely useful [] Topics were moderately useful [] Topics were not useful

Overall were you satisfied with the quality of the courses offered through this Institute?

[] Extremely satisfied [] Satisfied [] Neither satisfied nor dissatisfied [] Dissatisfied [] Extremely dissatisfied

Please provide any additional comments on the level, content, quality or relevance of the Institute courses below.

Please share three to five concepts or best practices you learned in the Senior Nutrition Institute Courses.

1.			
2.			
3.			
4.			
5.			

Please tell us how you plan to implement some of these concepts or best practices into your Program.

What suggestions, if any, do you have for additional courses to be provided at Conference or through webinars on topics discussed during the Senior Nutrition Institute?

At Conference:

In a webinar:

What types of learning opportunities	would you like to see offered by the MOWAA
Leadership Academy in the future? ((Check all that apply.)

[] Instructor led [] Webinars: Real time with instructor [] Webinars: On demand

[] Online courses

[] Discussion forums

Contact Information (Optional):

Name:

Organization:

City:

State:

Testimonials from individuals are critical to the MOWAA Leadership's Academy's ability to provide future courses or Institutes.

We share these testimonials with MOWAA Members and others when promoting upcoming Institutes, but especially with funders like the Walmart Foundation, whose generous support enabled us to offer this program and other potential future funders to demonstrate the value and impact of their support.

If you would like to help support the work of the Academy, we ask that you write a few sentences describing your experience at the Institute, the impact it will have on your program and board, or any other comments that we may share.

Thank you for taking your time to respond. Please return your completed form to the MOWAA staff at the end of the Institute.