

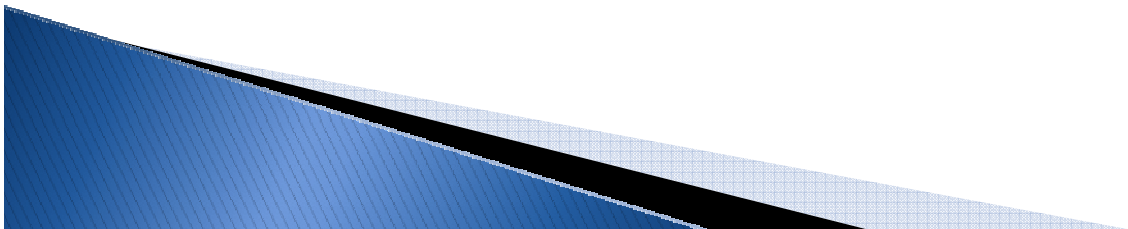
Menu Planning for Customer Satisfaction

Linda Netterville, MA, RD, LD
Meals On Wheels Association of America

Polling Question:

Are you funded through an Area Agency on Aging or State Unit on Aging?

Yes/No



Objectives

- Overview
- Menu Planning
- Menu Options
- Menu Planning Principles

Overview

- Goals
- Requirements of OAA
- DRIs
- Dietary Guidelines for Americans

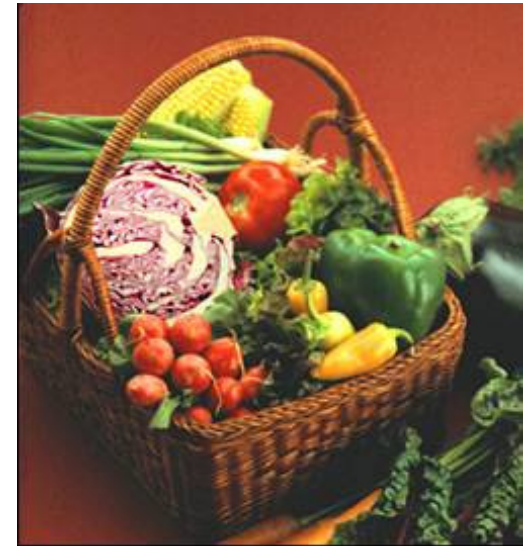
Goals of Community Based Nutrition Programs

- ▶ Improve health and nutritional status
- ▶ Prevent of hunger and food insecurity
- ▶ Continuation of the ability to live independently for older adults
- ▶ Provide nutritious, tasty, appropriate, and safe meals

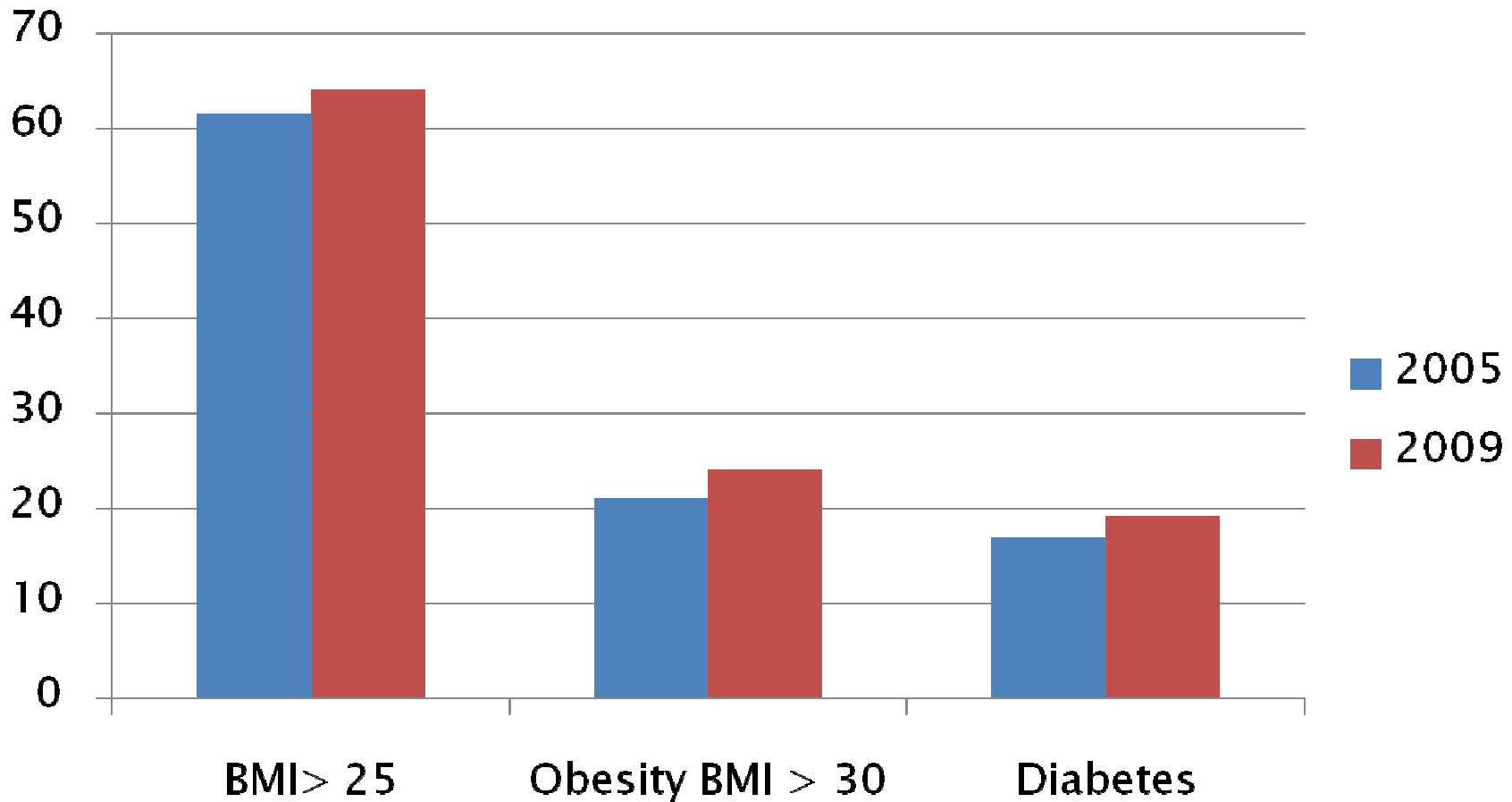


Healthy Eating & Physical Activity

- ▶ Increase longevity
 - Even with cancer, heart disease
- ▶ Diabetes prevention
- ▶ Manage hypertension
- ▶ Best evidence for
 - Fruits, vegetables
 - Whole grains
 - Less salt
 - Less saturated fat (animal fat)
 - Vitamin D, calcium supplements

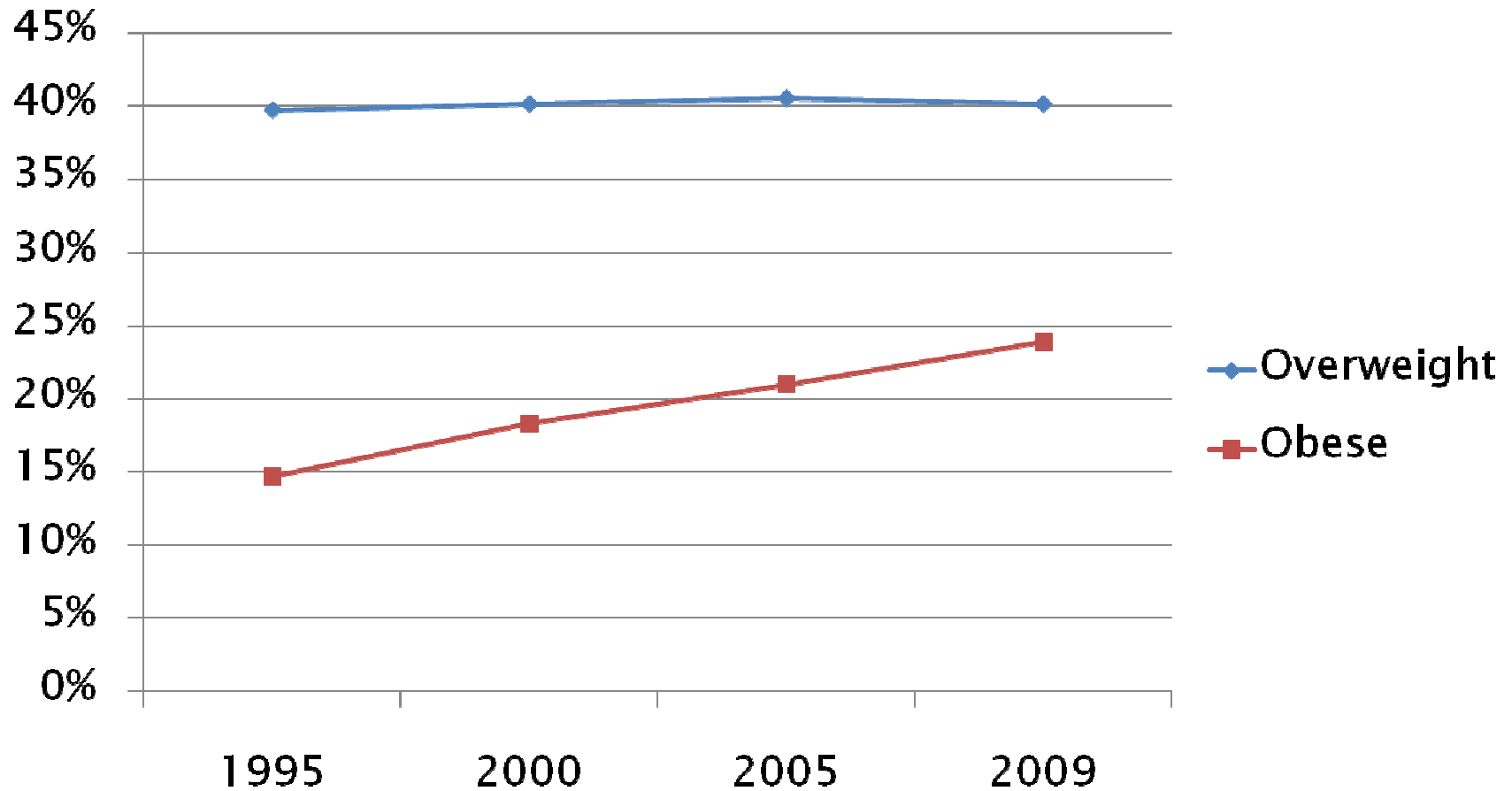


Health Profile of Older Adults



Behavioral Risk Factor Surveillance System 65+ Age Group

Health Profile of Older Adults



Behavioral Risk Factor Surveillance System 65+ Age Group

Consumers Value Program Participation

	Home Delivered	Congregate
Eat more balanced meals	86%	79%
Better able to avoid sodium & fat	81%	76%

Services Are Targeted to Vulnerable Populations

Indicators	Home-delivered	Congregate	National
Age 75+	70%	57%	32%
Live Alone	56%	48%	27%
Below Poverty	24%	14%	7%
3+ ADLs	31%	8%	6%

Issue Brief, July 2010, Mathematica Policy Research, Inc.

Services Allow Seniors to Remain in Their Homes

Home-delivered	Congregate
91%	59%

Issue Brief, July 2010, Mathematica
Policy Research, Inc.

US OAA 2009 Participant Survey

Question	Home Delivered Meals % of Respondents	Congregate Meals % of Respondents
Single Meal Provided ½ or more of total food for day	63	58
Don't always have enough \$ or Food Stamps to buy food	24	13
Choose between food & medication	17	NA
Choose between food & rent or utility	15	NA
Receive food stamps	15	7

2009 AoA Survey of OAA Participants, January 2010

US OAA 2009 Participant Survey

Question	Home Delivered Meals % of Respondents	Congregate Meals % of Respondents
Fair or Poor Health	56	29
Stayed overnight in hospital in past year	40	20
Stayed overnight in nursing home in past year	12	4
Alzheimer's Disease	12	5
Diabetes	35 (16% nationally)	26 (16% nationally)
Hypertension	73 (48% nationally)	68 (48% nationally)
Heart Disease	48 (32% nationally)	32 (32% nationally)

Requirements of the Older Americans Act

- ▶ Section 339 Nutrition Program
 - “A State that establishes and operates a nutrition project under this chapter shall...”
 - State must solicit advice of a dietitian or individual of comparable expertise in planning nutritional services and ensuring....

Requirements of the Older Americans Act

▶ Meals

- 1 / 3 DRI; Dietary Guidelines for Americans, 2005;
- Design meals to meet special dietary needs (cultural/ethnic preferences, health, religious needs)
- Design “appealing” meals, i.e. food/menu choice, include participant input
- Input from dietitian, participants, individuals knowledgeable in the needs of older adults.

What are the Dietary Reference Intakes (DRIs)?

- ▶ Introduced in 1997
- ▶ Reference values of nutrients, primarily used by nutrition & health professionals
- ▶ Basis for
 - assessing & planning diets
 - federal nutrition & food programs



Dietary
DRI Reference
Intakes The Essential Guide to Nutrition

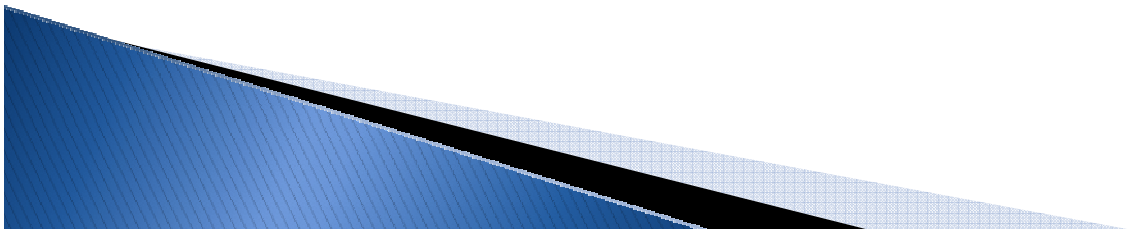


The Dietary Reference Intakes (DRIs) are a set of reference values for nutrients that are used to assess and plan diets. They are based on the most current scientific information available and are used by nutrition professionals and the general public.

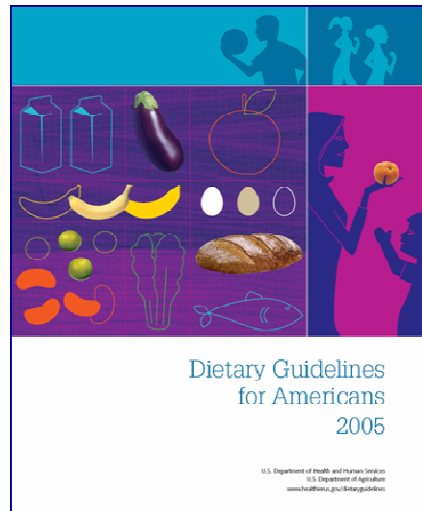
© 1997 by National Academies Press

What is the purpose of the DRIs?

- ▶ Maintain nutritional adequacy
- ▶ Promote health
- ▶ Reduce risk of disease
- ▶ Provide a measure of excess



What are the Dietary Guidelines for Americans?



- ▶ Brief science-based statements & text published by federal government
- ▶ Promotes health & prevent disease
- ▶ Updated every 5 years. Due Fall 2010

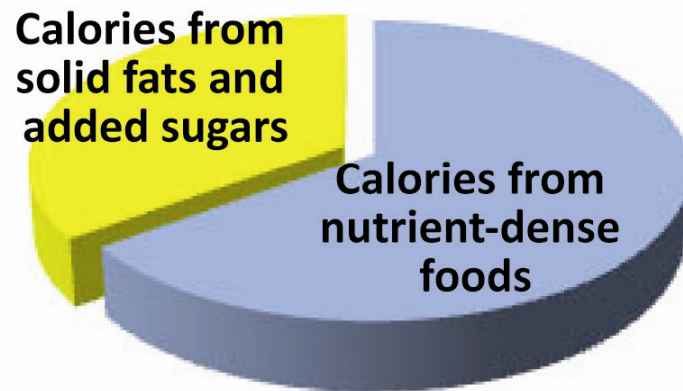
Highlights of the Dietary Guidelines for Americans 2010

- ▶ Addresses majority of Americans are overweight or obese
- ▶ Research supported
- ▶ Total diet = Energy balanced + nutrient dense

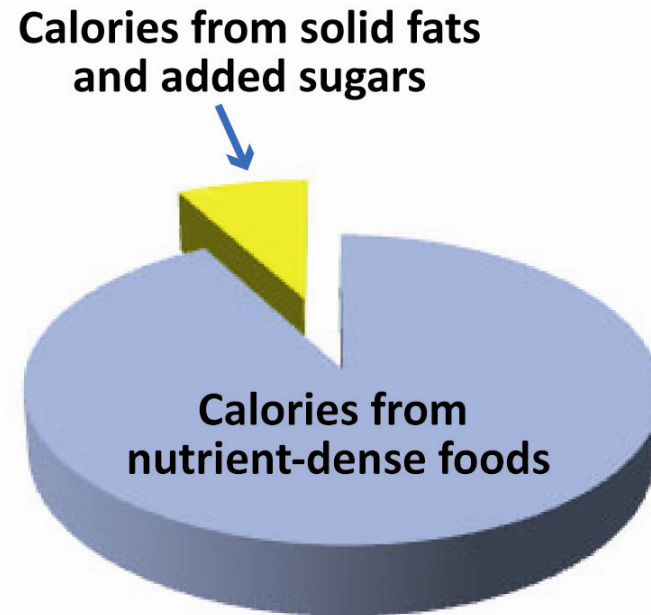


Dietary Guidelines for Americans 2010

What We Eat

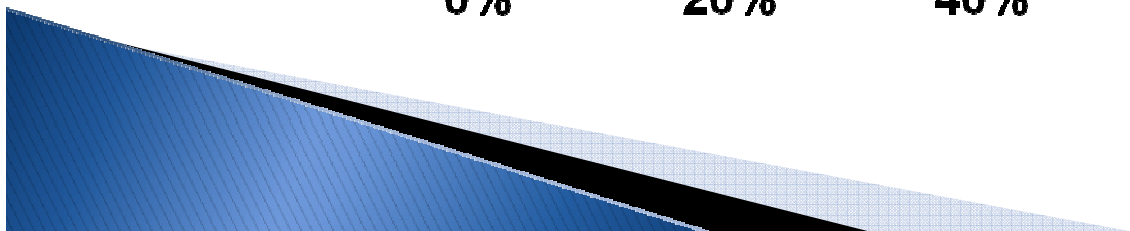
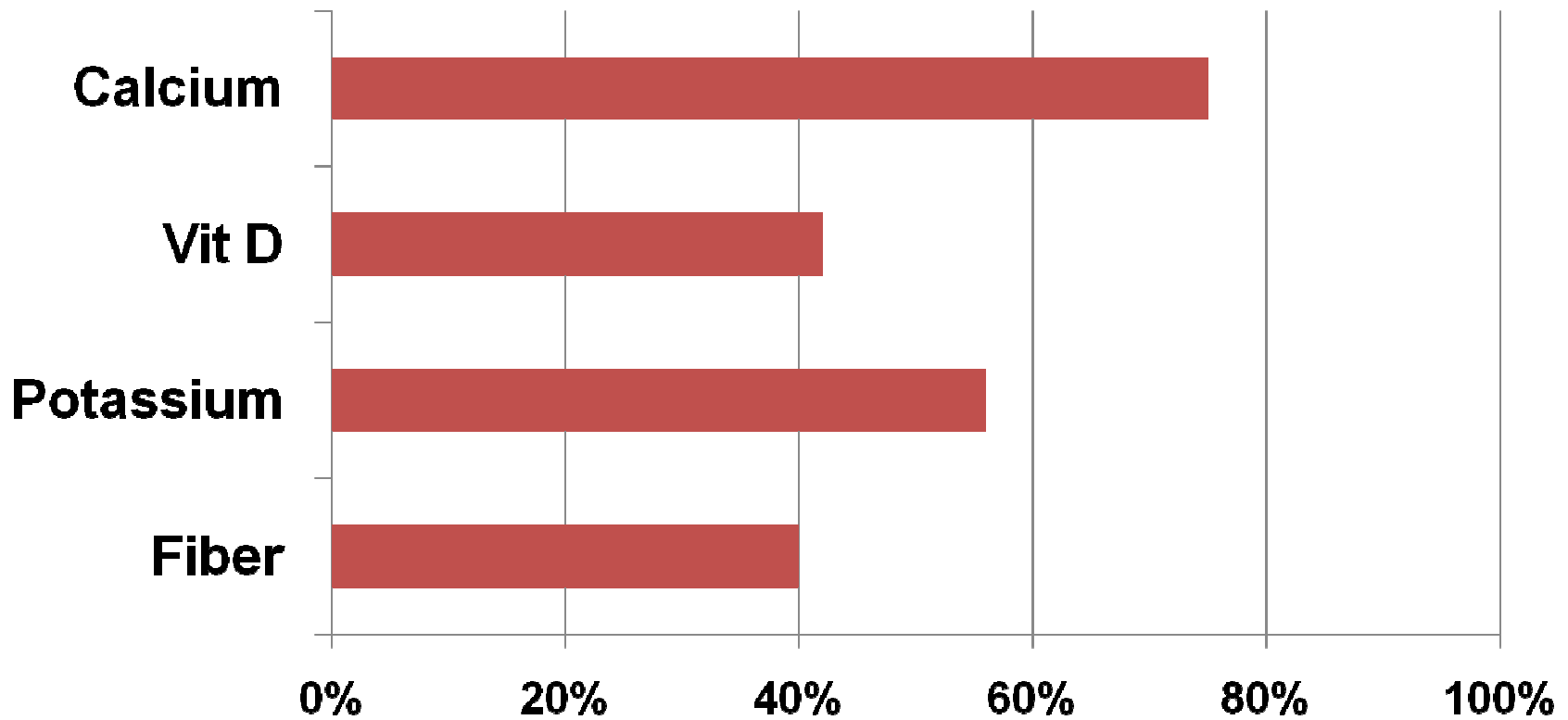


Recommended Limits



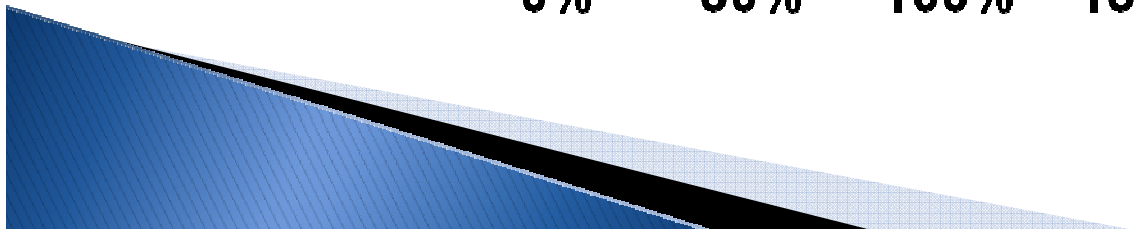
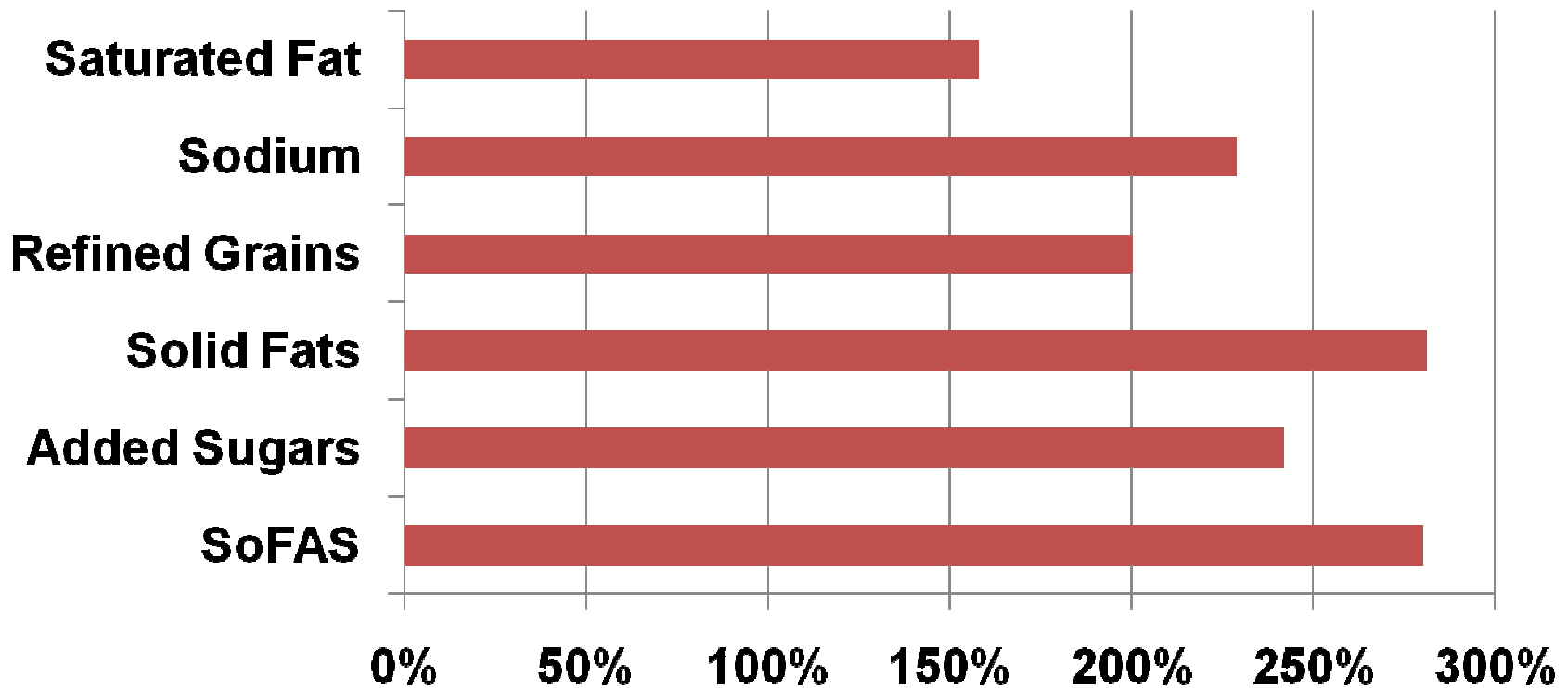
Dietary Intakes Compared to Recommended Levels

Eat More



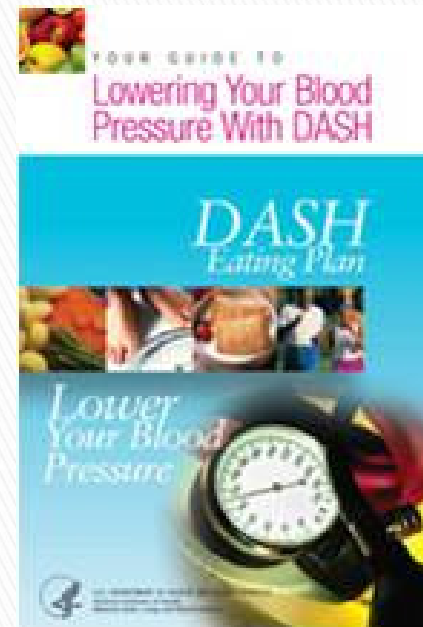
Dietary Intakes Compared to Recommended Levels

Eat Less



Dietary Guidelines for Americans

Meal Patterns



USDA Food Guide

DASH Eating Plan

Key Recommendations for Older Adults:

- ▶ **Calories**
 - 1800 – 2050 calories/day
(Age/Activity)
- ▶ **Fat**
 - 20–35% of Total Calories
- ▶ **Protein**
 - 46–56 gm (10–35% of Calories)

Key Recommendations for Older Adults:

- ▶ Sodium – Limit to 1,500 mg/day
- ▶ Sources: Naturally occurring in foods; Table salt; processed, brine, smoked, or salty foods



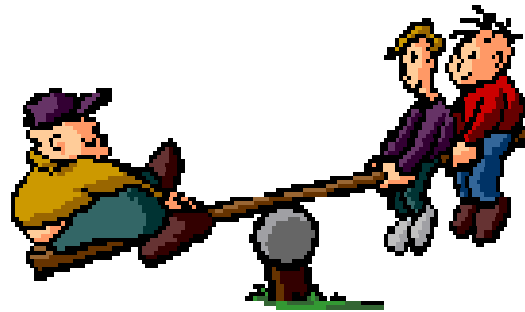
Key Recommendations for Older Adults:

- ▶ Potassium – Meet 4,700 mg/day with food
- ▶ Sources: Found in meat, milk, fruits and vegetables;



Key Recommendations for Older Adults:

Keep Sodium and Potassium in Balance



Key Recommendations for Older Adults:

- ▶ Calcium–1200 mg/day
- ▶ Sources: Milk, Dairy products, cheese, ice cream, etc.



Key Recommendations for Older Adults:

- ▶ Fiber– 21 to 30 gm/day
- ▶ Source: Whole grains, Legumes, Nuts, Vegetables, Fruits



Key Recommendations for Older Adults:

- ▶ Vitamin A– 700 to 900 microgram/day
- ▶ Sources: Plant sources preferred–Dark green and orange vegetables



Key Recommendations for Older Adults:

- ▶ Vitamin B₆ – 1.5 to 1.7 mg/day
- ▶ Sources: Fortified cereals, beans, meat, poultry, fish, and some fruits and vegetables



Key Recommendations for Older Adults:

- ▶ Vitamin B₁₂– 2.4 micrograms/day
- ▶ Sources: Eggs, meat, poultry, shellfish, milk, and milk products

Key Recommendations for Older Adults:

- ▶ Vitamin C – 75 to 90 mg per day
- ▶ Sources: Citrus fruits, broccoli, strawberries, lemons, mustard and turnip greens, Brussels sprouts, cabbage, spinach



Key Recommendations for Older Adults:

- ▶ Vitamin D–600–800 IU/day
- ▶ Sources: Sun, Fortified foods



Key Recommendations for Older Adults:

- ▶ Vitamin E–15 mg/day
- ▶ Sources: Vegetable oils (such as wheat germ, sunflower, and safflower oils), nuts (such as almonds), seeds (such as sunflower seeds), and green vegetables (such as spinach and broccoli).





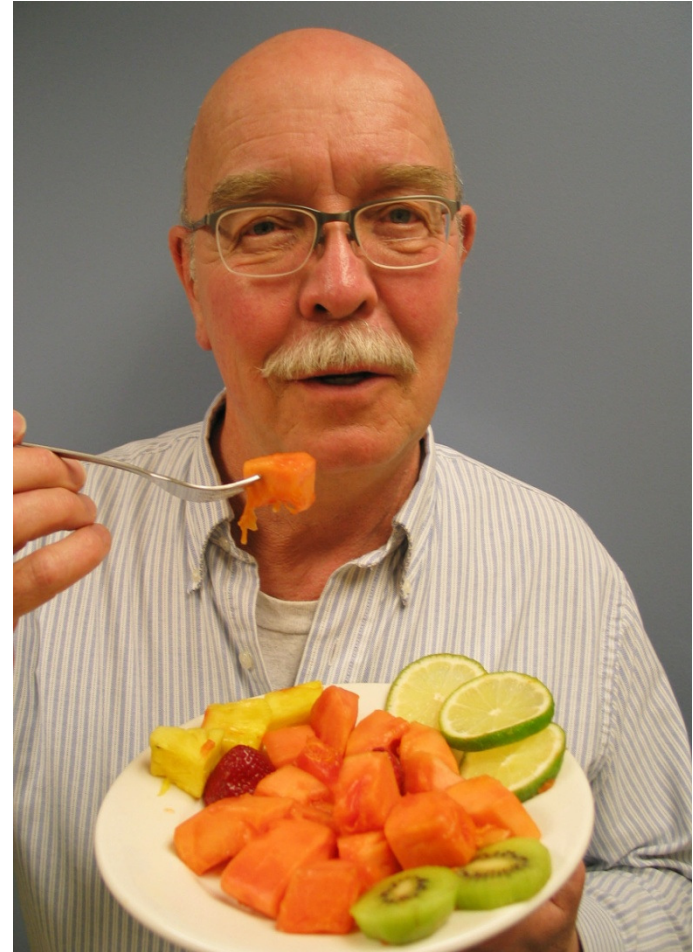
Menu Planning

- Menu Planning Goals
- Customer Input
- Food Trends
- Nutritional Guidelines

Goals of Menu Planning

Meals are:

- ▶ Appealing to the client
- ▶ Nutritious
- ▶ High Quality
- ▶ Safe to Eat



Menu Planning

- Enhance taste
- Strive for balance
- Emphasize variety
- Add contrast: texture & temperature
- Think about color
- Consider eye appeal
- Regional, traditional
- Time of year



Customer Input

- ▶ Menu committees
- ▶ Product sampling
- ▶ Food preference surveys
- ▶ Satisfaction focus groups
- ▶ “Secret” diner
- ▶ Comment cards
- ▶ Satisfaction surveys



Customer Surveys

- ▶ Menu Quality
 - Appetizing
- ▶ Service Delivery
 - Trays are sealed
- ▶ Foods Offered
 - Variety
 - Texture
 - Types of Foods
- ▶ Future Program Development
- ▶ Customer Outcomes

Menu Planning

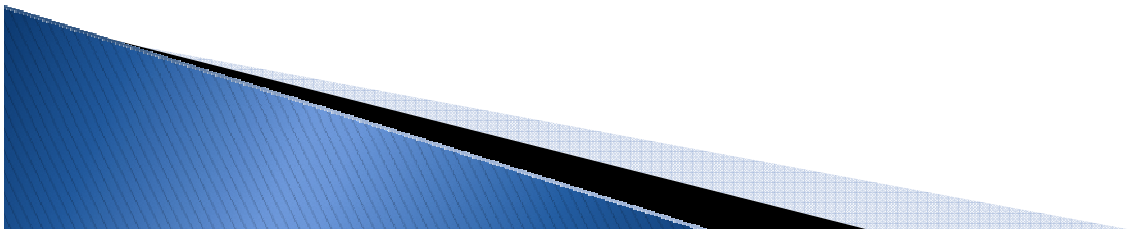
Older Adult Top Food Trends

- ▶ Scratch cooking
- ▶ Home-made
- ▶ Restaurant quality
- ▶ Comfort foods
- ▶ International flavors, ethnic
- ▶ Tasty, eye appeal
- ▶ Customer driven
- ▶ Choice
- ▶ Smaller portions
- ▶ Lighter fare
- ▶ Nutrient dense
- ▶ Healthy
- ▶ Variety

Institute of Food Technologists, 2005

Documentation of Nutritional Adequacy

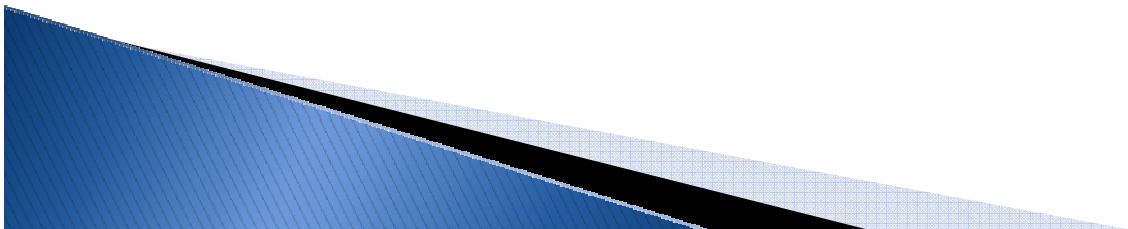
- ▶ Computer Nutrient Analysis with Target Nutrients
- Or
- ▶ Meal Pattern



Polling Question:

What method do you use to document nutritional adequacy for your menus?

- A. Nutrient Analysis
- B. Meal Pattern
- C. Both
- D. Other

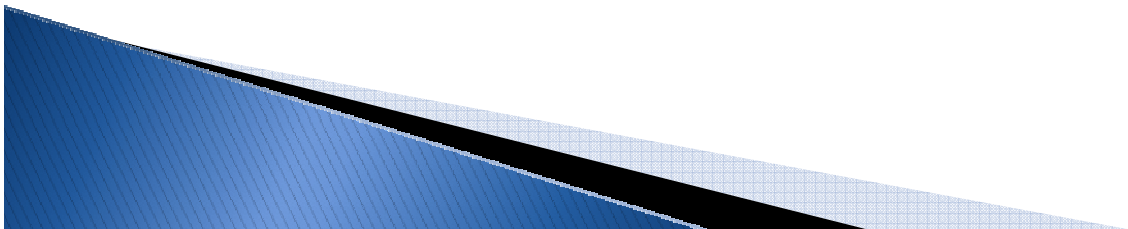


Nutrient Analysis Software

- ▶ Variety of Nutrient Analysis Software Available
 - Analysis of foods, recipes, and menus
 - Food production, inventory, and costing capabilities.
- ▶ Nutrient Analysis Software Used
 - *FoodWorks– Price, low cost updates, good technical support, accurate database
 - Food Processor
 - Nutritionist V, Nutritionist Pro (First Databank)
 - Computrition

Nutrient Analysis Software

- ▶ Components:
 - Current nutrient data base
 - USDA National Nutrient Database for Standard Reference
 - Standardized recipes
 - Accurate nutrient data from vendors and manufacturers



Dietary Guidelines for Americans

Meal Patterns

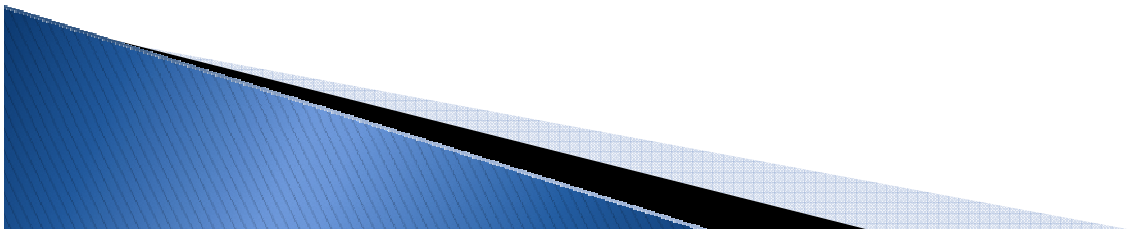
- ▶ Lean Meats & Beans
 - ▶ Grains
 - ▶ Fruits
 - ▶ Vegetables
 - Dk Green, Orange
 - Legumes, starchy, other
 - ▶ Milk
 - ▶ Oils
 - ▶ Sweets discretionary calorie allowance
- ▶ Meat, poultry, fish
 - ▶ Nuts, seed, legumes
 - ▶ Grains
 - ▶ Fruits
 - ▶ Vegetables
 - ▶ Low-fat or fat free dairy foods
 - ▶ Fats and oils
 - ▶ Sweets and added sugars

USDA Food Guide

DASH Eating Plan

Meal Pattern

- ▶ Meat or meat alternative
- ▶ Vegetable/fruit
- ▶ Starch





Menu Options

- Frozen
- Shelf Stable
- Special Dietary Needs
- Choice

Frozen

▶ Indications

- Daily delivery is limited
- Provide more menu choice
- Offer weekend/holiday meal
- Expand service—second meal



Shelf-Stable

- ▶ Provided on a temporary basis when regular meal is not an option
- ▶ Used during bad weather, or other emergency meal replacements
- ▶ Does not require refrigeration and can be consumed at room temperature if needed
- ▶ May not comply with DRI requirements (sodium, potassium)



Special Dietary Needs

- ▶ Culturally or ethnic appropriate meals
 - Examples: Asian, Halal, Kosher, Vegetarian
- ▶ Modified Meals
 - Examples: Pureed, Low sodium
- ▶ Therapeutic
 - Examples: Renal, Gluten-free

Choices

- ▶ **Accommodating Consumer Choice**
 - Time
 - Service location or place
 - Restaurant voucher programs
 - Café style service
 - Menu
 - Food
 - More than 1 meal/day
 - Fee for service/private pay options
 - Customer service emphasis



Menu Planning Principles

- Food Service
- Food Safety
- Cost Control
- Evaluation

Food Service Factors to Consider

- ▶ Type of Food Service Operation
 - Self operated
 - Catered
- ▶ Food Service System
 - On-site food production
 - Central kitchen with satellite service
 - Ready prepared / Cook-chill / Cook-freeze
 - Convenience
 - Restaurant / Restaurant Voucher

Food Service Factors to Consider

- ▶ Size of operation
 - Number of meals/day
- ▶ Type and frequency of meal service
 - 5day/7day
 - One meal/day, two meals/day, three meals/day
- ▶ Types of Delivery System
 - Hot, frozen, chilled
- ▶ Menu Options



Food Service Factors to Consider

- ▶ Labor considerations
 - Number of employees
 - Skill of Staff
- ▶ Equipment
 - Production
 - Delivery
- ▶ Packaging/Meal service delivery



Food Service Factors to Consider



- ▶ Cycle Menus
 - Different every day & repeats after number of weeks
- ▶ Cycle menus:
 - 4 – 6 week cycle
 - 3 – 4 cycles per year
- ▶ Cycle menus should consider:
 - Available storage
 - Purchasing & delivery schedule
 - Production limitations
 - Seasonal, regional, traditional foods

Food Service Factors to Consider

- ▶ Standardized Recipes
 - Consistent quality
 - Predictable yield
 - Customer satisfaction
 - Consistent nutrient content
 - Food cost control
 - Efficient purchasing
 - Labor control



Standardized Recipes

Sources

- ▶ Food for Fifty (12th Edition)
- ▶ Quantity recipes published by USDA
 - Recipes for school and child care
 - National Food Service Management Institute
- ▶ Food manufacturers
- ▶ Recipe standardization of client favorites

Food Safety In Menu Planning

- Retains temperature
- Retains quality, despite holding times
- Selection of safe foods
- Ease of safe food handling
- Compliance with state and local food code



Cost Control in Menu Planning

- ▶ Cost Considerations
 - Raw Foods vs. Convenience Foods
 - Food availability
 - Purchasing procedures
 - Labor
 - Packaging/Food containers

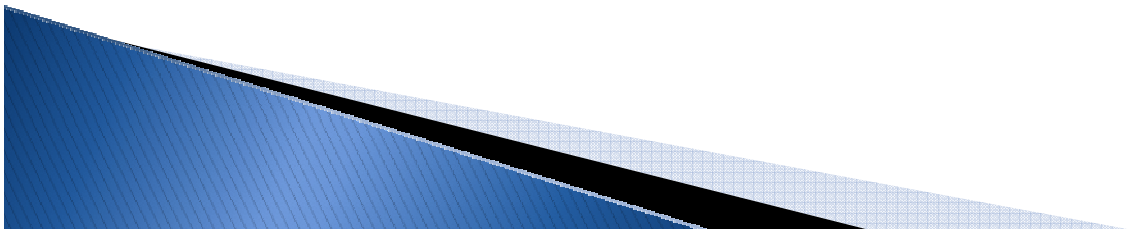


Possible Causes of Meal Costs

- ▶ Poor menu planning
- ▶ Careless purchasing and receiving practices
- ▶ Failure to use standardized recipes
- ▶ Inaccurate forecasting
- ▶ Careless food storage
- ▶ Waste in food preparation
- ▶ Portion control not followed

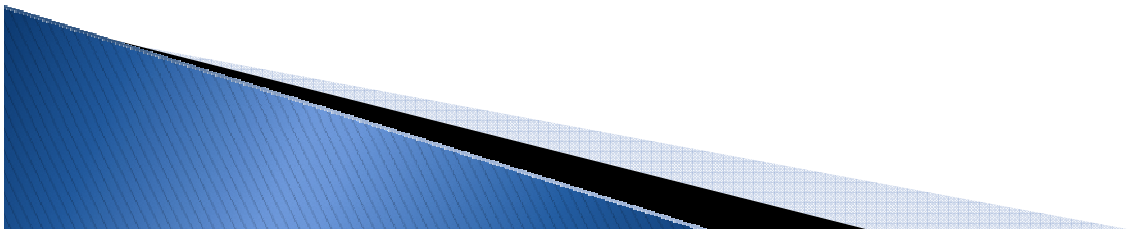
Menu Evaluation

- ▶ Analysis of cost/meal
 - Raw food cost per meal
 - Total cost per meal
- ▶ Compliance with program requirements
 - Computer assisted menu analysis
 - State and local health food code
- ▶ Customer satisfaction
- ▶ Plate waste (Congregate setting)



Menu Planning for Catered Food Service

- ▶ Include specifications in the scope of work
- ▶ Provide input into menu development
- ▶ Monitor food quality and costs
- ▶ Monitor service and delivery



Questions?

Resources

- ▶ Administration on Aging <http://www.aoa.gov/>
- ▶ AGing Integrated Database <http://www.agidnet.org/>
- ▶ Behavioral Risk Factor Surveillance Survey
<http://apps.nccd.cdc.gov/brfss/page.asp?yr=2008&state=US&cat=CV#CV>
- ▶ Dietary Reference Intakes
http://fnic.nal.usda.gov/nal_display/index.php?info_center=4&tax_level=1

Resources

- ▶ **Dietary Guidelines for Americans**
<http://www.health.gov/dietaryguidelines/dga2005/toolkit/default.htm>
- ▶ <http://www.cnpp.usda.gov/DietaryGuidelines.htm>
- ▶ **Older Americans Act Nutrition Service Providers Guide**
 - [http://www.health.gov/dietaryguidelines/dga2005/toolkit/default.htm#older adults](http://www.health.gov/dietaryguidelines/dga2005/toolkit/default.htm#older_adults)
- ▶ **National Institutes of Health**
 - **National Heart Lung Blood Institute Recipes:**
<http://www.nhlbi.nih.gov/health/>

Resources

- ▶ **Food and Drug Administration- Food Safety**
 - <http://www.cfsan.fda.gov/list.html>
- ▶ **American Heart Association**
 - <http://www.americanheart.org/>
 - Including cookbooks, recipes
- ▶ **American Diabetes Association**
 - <http://www.diabetes.org/>
 - Including cookbooks, recipes

Resources

- ▶ **International Food Information Council**
 - <http://www.ific.org/>
- ▶ **National Resource Center on Nutrition, Physical Activity and Aging**
 - <http://nutritionandaging.fiu.edu>
- ▶ **National Food Service Management Institute**
 - <http://www.nfsmi.org/>
 - **Adult Day Care Manual, incl. Information on meal service**