# Nutition and Meal <br> <br> Planning 

 <br> <br> Planning}

3 CEUSFOR RCFE AND ARF ADMINISIRATORS


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## Course Objectives



02
Review State regulations perta ining to food and food service

03

Disc uss good food choicesfor your residents

## 04

## Leam about the

 govemment's Nutrition Plate and how to use itDSS = Department of Social Services
RC FE = Residential Care Facility for the Elderly
ARF = Adult Residential Facility
Definitions
LPA = Licensing Program Analyst
SNF $=$ Skilled Nursing Facility
$\mathrm{AB}=$ Assembly Bill
SB $=$ Senate Bill
Resident = a nyone living in long-tem care

## Sources

Many sources were
consulted to prepare this course.

At the end of the course, these sources are listed.


## Good Nutrition

Why womy about eating healthy? Can't we just have cake forbreakfast???

The benefits of healthy eating include:
iol increased mental acuteness
iol resistance to illness and disease
iol higher energy levels
iol faster recuperation times
ia better management of chronic health problems


## Good Nutnition (cont'd)



## Increased mental ac uteness:

Diets that include natural sourc es of omega-3 fatty a cids, Vitamin E and a selection of brightly colored fruit, leafy veggies, and fish and nuts packed with can increase mental cognition, improve focus and decrease the risk of Alzheimer's disease.

## Good Nutrition (cont'd)

Resista nce to illness a nd disease:

A properdiet reduces the risk of heart disea se, stroke, high blood pressure, type-2 diabetes, bone loss, cancer, and a nemia.

## Good Nutrition (cont'd)

Higher energy levels:

Food provides energy. Your body needs a mix of protein and carbohydrates.

J ust think - if you didn't put gas in your car, would it move?


## Good Nutrition (cont'd)

Faster rec upera tio n time:

If a person is healthy, they can recover from illness and injury faster and easier than someone who is not healthy.

This could reduce hospitalization or skilled nursing time.

## Good Nutnition (cont'd)

Better management of chronic health problems:

A proper diet reduces the risk of heart disease, stroke, high blood pressure, type-2 diabetes, cancer, bone loss and anemia.

As we age, changesoc curto all of the body systems.

## Nutrition <br> a nd Aging

These changesare influenced by illnesses, life events, genetic traits and socioeconomic factors.

Let's talk more about the aging body's needs.

## Nutnition and Aging (cont'd)

## Sensory changes:

- Losing the a bility to see the food on a plate can cause a resident to stop eating (i.e., resident with dementia - white food on white plate, white tablecloth,....).
- Also, as people age, the sense of smell and taste is diminished so if it does not taste, then the resident may not want to eat it. And, if the resident is on a restricted diet, like low fat or sugar, then they may not want to eat at all!


# Nutnition and Aging (cont'd) 

## Sensory changes:

## Suggestions:

- Rather than using salt or frying foods, try different spices, herbs oracids (ike lemon) a nd try baking the food rather than frying.
- Introduce the resident to new foods and flavors.
- Offer foods with different textures, rather than a plate of mashed potatoes, over-cooked, mushy vegeta bles. Try lightly steaming vegeta bles instead.




## Nutrition

## Stuctural changes:

- An aging body loses lean body mass, which can a ffect skeletal muscle and musc les of the vital organs, such as the heart.
- Meta bolism is affected by age.
- Aging can also impair the body's immune system.


## Nutrition and Aging (cont'd)

## Structural changes:

- Suggestions:
- Provide a well-balanced diet that meets the individual needs of the resident, i.e., caloric needs.
- Provide the resident with foods rich in dietary fiber, calcium and protein (unless otherwise specified by the physician).
- Encourage the residents to stay hydrated, either through water or liquids or foods with a high-water content (i.e., melons).



## Nutnition and

 Aging (cont'd)Vitamin and mineral deficiencies:

- An illness that stresses the body may make a body vita min defic ient.
- Medicationsalso interfere with the absorption of many vita mins a nd minerals.
- If the resident is not exposed to direct sunlight, they may bec ome Vita min D deficient.


## Nutrition and Aging (cont'd)

Low levels of Vitamin B12 can cause dementia a nd hearing loss in seniors.

Drugs that a re used to control diseases such as hypertension can alter the sodium a nd potassium levels in the body.

Taking herbal
supplements with
certain
medicationscan
cause negative interactions.

## Nutrition

## Vitamin and mineral deficiencies:

- Suggestions:
- Provide a well-balanced diet that includes a variety of healthy foods.
- Consult with the resident's physician and phamacist to check for possible drug and food interactions.
- Encourage the residents to get exposure to natural sunlight each day.


## Title 22 Regulations

Per Section 87555 (RCFE) and 85076 (ARF):

The total daily diet:

- qua lity
- quantity
- meet the Recommended Dietary Allowances of the Food and Nutrition Board of the National Research Council.


## Title 22 Regulations state:

All food shall be selected, stored, prepared and served in a safe and healthful ma nner.

## Food Senvice Requirements - Title 22

io Each resident receives at least 3 meals perday.
$1(\mathrm{O}$ Exc eptions ma de on holida ys and weekends if total daily food needsare met.
O) No more than fifteen (15) hours shall elapse between the third and first meal (dinner and breakfast).

## Food Service Requirements

- Title 22

For residents electing out of the food service program, if their condition changes and they can no longer cook or purchase their own meals, then you must provide full meal senvice.


## Food Senvice Requirements-

 Title 22Between-meal nourishment or snacks are made available to the residents unless limited by dietary restrictions prescribed by a physician.

What are good snack ideas?


## Food Service Requirements -

 Title 22Mealsshould be served in a designated dining area to encourage residentsto eat with other residents. Tray service shall be provided in case of temporary need.

Meals shall consist of an a ppropriate variety of foods and shall be planned with consideration for cultural and religious backgroundsand food habits of residents.

## Food Service Requirements - Title 22

## Facilities 16t:

- menus written at least 1 week in advance
- copies of the menus as served dated and kept on file forat least 30 days.


## Facilities for less than 16:

- Maintain a sample menu in yourfiles

Food Servic e Requirements Titte 22

Modified diets prescribed by a resident's physic ia n asa medical necessity shall be provided.


## Modified Diets

What is a modified diet?

What types a re there?

What do I have to provide?

## Modified Diets (cont'd)

Types:

- low sodium/no added salt
diabetic/no added sugar, no concentrated sweets
- low fat
- texture modification


## Modified <br> Diets (cont'd)

Low Salt Diet:
Americans consume fartoo much sodium - about 3,500 milligrams daily. The American Heart Association recommends no more than $2,300 \mathrm{mg}$ a day and moving toward an ideal limit of no more than $1,500 \mathrm{mg}$ perday for most adults.*
*Source: https://www.heart.org/en/healthy-living/healthy-eating/eat-smart/sodium/how-much-sodium-should-i-eat-per-day

## Modified Diets (cont'd)

Why limit salt?
© Too much salt encourages the body to retain fluid, thereby increasing fluid pumped by the heart and circulating through the bloodstream.
© Excess fluid backs up into the lungs, causing congestion - leads to congestive hea rt failure.
©Potassium chloride - can be ha rmful for people with kidney problems.

## Low Sodium/No Added Salt

## Biggest culpris:

Frozen breaded meats a nd dinners, such a s bunitos a nd pizza Canned entrees, such a s ravioli, spam a nd chili Buttermilk
Regularand processed cheese, cheese spreadsand sauces Cottage cheese
Bread and rolls with salted tops
Quick breads, self-rising flour, bisc uit, pancake a nd waffle mixes
Piza, croutons and salted crackers
Prepackaged, processed mixesfor potatoes, rice, pasta and stuffing Regularcanned vegetablesand vegetable juices
Commercially prepared pasta and toma to sauces and salsa Regularcanned and dehydrated soup, broth and bouillon Instant pudding a nd cake Large portions of ketc hup, mustard

## Low Sodium/No Added Salt



## Low Sodium/No Added Salt

## Heart Failure and a Low-Salt Diet

| Bacon | 1 medium slice | 155 |
| :--- | :--- | :--- |
| Chicken (dark meat) | 3.5 oz roasted | 87 |
| Chicken (light meat) | 3.5 oz roasted | 77 |
| Egg, fried | 1 large | 162 |
| Egg, scrambled with milk | 1 large | 171 |
| Dried beans, peas, or lentils | 1 cup | 4 |
| Haddock | 3 oz cooked | 74 |
| Halibut | 3 oz cooked | 59 |
| Ham (roasted) | 3.5 oz | 77300 to 1,500 |
| Hamburger (lean) | 3.5 oz broiled medium | 585 |
| Hot dog, beef | 1 medium | 228 |
| Peanuts, dry roasted | 1 oz |  |

## Low Sodium/No Added Salt

So......what is a good meal plan?

Goal: 2-3 servings of protein a day. What types?

- 2-3 ounces of fresh or frozen fish, shellfish, meat (beef, veal, lamb, pork), or poultry
- 1/2 cup cooked dried beansorpeas
- 1/2 cup low-salt canned fish (such as salmon or tuna)
- 1 egg


## Low Sodium/No Added Salt

- Most fruits have either no sodium or very little sodium. It Is rec ommended to stick to whole fruits, such as apples, bemies, peaches and pears.
- Fresh or frozen vegeta bles without added salt are good choices. If you use canned vegetables, look for lowor no-salt versions.
- Remove extra sodium from canned vegetables by emptying the contents into a colander, rinsing them under fresh water and then cooking the vegetables in more fresh water.


## Low Sodium/No Added Salt

Sa It substitutes - fla vor enha ncers:
fol fresh and dried herbs
rol Mrs. Dash
iol garlic-fla vored seasoning (not garlic salt)
fol butter-fla vored sea soning
ol cheese-fla vored sea soning

## Modified Diets (cont'd)

Dia betic/no added sugar diet:
$\checkmark$ genera lly, dia betic s must maintain a healthy diet
$\checkmark$ regulate carbohydrates-eat complex not simple carbohydrates
$\checkmark$ control fat and cholesterol
$\checkmark$ may need to monitor protein intake

## The Diabetic Diet

Diabetic sshould choose:

- Lots of vegeta blesand fruits from the rainbow of colors available to maximize variety.
o Non-starchy vegetables such as spinach, ca rots, broccoli or green beans with meals.
- Whole grain foods over processed grain products- brown rice or whole wheat pasta.
- Dried beans (like kidney or pinto beans) and lentils.
- Include fish in meals 2-3 times a week.
- Lean meats like cuts of beef and pork that end in "loin" such as pork loin and sirloin.
o Remove the skin from chicken and turkey.


## The Diabetic Diet

Diabetics should choose (cont'd):
o Non-fat dairy such as skim milk, non-fat yogurt and non-fat cheese.

- Water and calorie-free "diet" drinks instead of regular soda, fruit punch, sweet tea and other sugarsweetened drinks.
- Liquid oils for cooking instead of solid fats that can be high in saturated and trans fats. Remember that fats are high in calories.
o Cut back on high calorie snack foods and desserts like chips, cookies, cakes, a nd full-fat ice cream.
o Eating too much of even healthful foods can lead to weight ga in. Watch portion sizes.


## Modified Diets (cont'd)

## Low fat diet:

- Normal people should limit fats to $30 \%$ of diet*
- Low fat diets limit fat inta ke to 50 grams
- Extremely low-fat diets - 2530 grams
- Eat good fats (fish, avocados) rather than bad fats (fried foods)
*Source: https:/ /www.who.int/news-
room/fact-sheets/detail/ healthy-
diet\#:~text=finit\%20and\%20vegetables.-
Fats,1\%2C \% 202\%2C \%203).


## Modified Diets (cont'd)

## Texture modification diets:

* Pureed in blender
* Thic kened, "pudding-like"
\& No coarse textures, like raw fruits or vegetables
* No oatmeal
* No hard, sticky or c runchy foods
* Moist and finely chopped foods



## Food Service Requirements-

 Title 22Where indic ated, food shall be cut, chopped or ground to meet individual needs.

## Food Service Requirements - Title 22

- Powdered milk shall not be used as a beverage but may be used in cooking or baking. Raw milk shall not be used. Milk shall be pasteurized.
- Except upon written a pproval by the licensing agency, meat, poultry and meat food products shall be inspected by state orfederal authorities. Written evidence of such inspection shall be availa ble for all products not purchased from commercial ma rkets.
- Also, home canned foods shall not be used in RC FE's but a re allowed in ARF's if they meet the requirements.


## Food Servic e Requirements -

## Title 22



All persons engaged in food preparation and service shall observe personal hygiene and food senvic es sa nitation practices which protect the food from conta mination.

Sufficient food service personnel shall be employed, tra ined a nd their working hours scheduled to meet the needs of the residents.

In facilities licensed with 16-49 resid ents, one person shall be designated who hasthe prima ry responsibility of food planning, preparation and service. This person shall be provided with a ppropriate tra ining.

## Food Service Requirements Title 22

In facilities lic ensed for $50+$, a nd providing 3 mealsper day, a full-time employee qualified by formal training or experience shall be responsible for the operation of the food service. If this person is not a nutritionist, dietic ian or home economist, provision shall be made for regular consultation from a person so qualified. The consultation services shall be provided at a ppropriate times, during at least one meal. A written record of the frequency, nature and duration of the consultant's visits shall be secured from the consultant and kept on file in the facility.

## Food Senvice Requirements -

## Title 22

Freezers: 0 degrees
Refrigerators:
ARF = max. 45 degrees
RC FE = max. 40 degrees
Dishwashing rinses:
RC FE's - hot water min. 170 degrees
ARF's - hot water min. 165 degrees

## Food Service Requirements -

 Title 22Pestic ides a nd other toxic substances shall not be sto red in food storerooms, kitc hen a reas or where kitc hen equip ment or utensils a re stored.

Soaps, detergents, clea ning c ompound s or simila r substa nces shall be stored in a reas separate from food supplies.


## Food Servic e Requirements-

 Title 22
## FOOD SUPPLES:

Non-perishables for 7 days

Perisha bles for 2 days

* Disa ster sup plies a lso



## Food Service Requirements-

 Title 22Non-perishable ideas:

- Cereal
- Crackers and peanut butter
- Canned foods-include próteins like tuna, not just 18 cans of peaches!
- Rice, oatmeal
- Granola bars

,
Degmans
 का

Oven Toasted Rice Cereal

## NUTRITION 101

Developed by the USDA in 1992, the original food pyramid wascreated to educate consumers on what types of food to eat on a daily basis.


## Nutrition 101

The new food pyramid, redesigned in 2005, was reorganized, but it was changed again in 2011.


## Nutrition 101

Now it looks like this....
www.myplate.gov


MyPlate.gov

## On the Plate

Orange -
Grains section

- What is considered a grain?
The 2 groups of grains: whole and refined

o How much should I eat?


## Why are Grains importa nt?

1. Consuming foods rich in fiber, such as whole grains, as part of a healthy diet, reduces the risk of coronary heart disease.
2. Consuming foods rich in fiber, such as whole grains, as part of a healthy diet, may reduce constipation.
3. Eating at least 3 ounc e equivalents a day of whole grains may help with weight ma na gement.

## Eating your Grains

Click on this link to review the "WHOLE GRAIN TIPS FOR SENIORS" pamphlet from The Whole Grains Council:
httos:/ / wholeg rainsc ou
httos:/ / wholeg rainsc ou s/atoms/files/whole-grains-tips-forseniors.pdf


## On the Plate

Green -
Vegetable section

- What foods are in the vegetable group?
- The 5 sub-groups
o How much should I eat each day?



## MyPlate.gov

The Green Section

## Foods included:

Any vegeta ble or $100 \%$ vegetable juice

They may be eaten cooked, raw, fresh, frozen, canned or dred


# How many vegetables should I eat each day? 

According to Eating Well*:
"For most adults that's 2 cups of fruit and 2.5 to 3 cups of vegeta bles (it's rec ommended that men get a little more veg). Only 14 percent of adults are getting the recommended a mount of vegeta bles a nd only 18 percent get enough fruit."
*Source: https:// www.eating well.com/artic le/290393/what-does-a-day-of-fruits-a nd-vegeta bles-looklike/ \#:~.text=For\%20most\%20a dults\%20tha t's\%202,18\%20percent\%20get\%20enough\%20fruit.

## Why eat vegetables?

1. Reduced risk of chronic disease.
2. Reduced risk of stroke or cardiova scular diseases.
3. Reduced risk of type 2 diabetes.
4. May protect against certain cancers.
5. The fibermay reduce the risk of coronary heart disease.
6. The potassium may reduce the risk of developing kidney stones and decrease bone loss.

## Pota ssium

Diets rich in potassium may help to mainta in healthy blood pressure.

Vegetable so urces of pota ssium include:
o white and sweet potatoes
o white, soy, kidney a nd lima beans, lentils and split peas
o tomato products (paste, sauce, and juice)
o winter squash
o spinach

## Dieta ry fiber

Dieta ry fiber from vegeta bles:
$\Rightarrow$ helps reduce blood cholesterol levels
$\Rightarrow$ may lower risk of hea rt disea se
$\Rightarrow$ is important for proper bowel function
$\Rightarrow$ helps reduce constipation
$\Rightarrow$ helps provide a feeling of fullness with fewer calories.

1. Buy fresh vegeta bles in sea son.
2. Keep frozen vegetables on hand.
3. Vary the kinds of vegeta bles you buy.

## Eating Vegetables

4. Try cooking your vegetables in different ways (stea med, baked).
5. Dark leaf lettuc es a re healthier than ic eberg lettuce.
6. Choose brightly colored vegetables.
7. Eat a salad every night.

## On the Plate



- How much should I eat?

- Does fruit juice count?


## How much do I need to eat?

According to the Office of Disease Prevention and Health Promotion, it varies from person to person, but the average adult needs two cups per day.*
*Source:
https://health.gov/sites/d efa ult /files/2019-09/2015-
2020 Dieta ry Guidelines.pdf


## Eating fruit

1. Buy fruit in sea son.
2. Keep fruit cut up in the refrigerator for easy serving and snacking.
3. Use frozen fruit for shakes, desserts, etc.
4. Select fruits with more pota ssium, such as bananas, prunes and dried peaches and a pric ots.
5. Choose fruits canned in $100 \%$ fruit juice or water rather than heavy syrup.

## On the Plate

## Błue - <br> Dairy section

o What foodsare in the dairy group?

- How much do I need?
- What is considered a serving?



## The Dairy Section

## Included in this Section:

Milk (preferably low-fat)

- Yogurt

Cheese

- Ice cream

Milk-based desserts (puddings, custards)

## How much do I need?

The average, $51+$ year old woman needs 3 cups of dairy products perday.

1 cup =
1 cup of milk or yogurt
1-1/2 ounces natural cheese
2 ounces processed cheese



## Got Milk?

* Include milk at each mealchoose non-fat or low-fat.
* Add milk to canned soups, oatmeal and other hot cereals rather than water.
* Have yogurt as a snack.
* Have puddings or custards asa dessert.
* Use low-fat cheese for cooking.
* Use low-fat sour cream on baked potatoes.


## What if the resident does not like milk?

You may have lactose-intolerant or vegan residents who cannot tolerate or want milk or milk products. Try substituting:

- Lactose-free products
- Calcium fortified products, such as orange juice, c ereals a nd breads
C a nned fish, such as sardines
Soy products, such as tofu
- Dark, leafy greens


## On the Plate

Puple -
Protoin ce
o What foods are in this group?

- How much do I need?
- What if my resident is a vegetarian?



## MyPlate.gov



# Protein Foods Group 

What is included in this group?

Protein Foods include all foods made from seafood; meat, poultry, and eggs; beans, peas, a nd lentils; a nd nuts, seeds, and soy products.

## Examples from this G roup

| Lean cuts of: | Poultio: | Eqgs |
| :---: | :---: | :---: |
| beef | turkey |  |
| lamb | chicken | Lean ground meat |
| pork | duck |  |
| veal |  | Diy beans \& peas |
| Fish: | Shellifs: | Seeds \& nuts: |
| salmon | shrimp | almonds |
| ha libut | scallops | peanuts |
| cod | oysters | pea nut butter |
| catfish | mussels | pecans |
| flounder | clams | sunflower seeds |

## How much should I eat?

Again, the average $51+$ year old woman should have around 5 ounces of this group each day.

In general, 1 ounce $=$
1 ounce of meat, poultry or fish
¼cup cooked dry beans
1 egg
1 Tablespoon peanut butter
$1 / 2$ ounce nuts or seeds

Foods in the meat, poultry, fish, eggs, nuts, and seed group provide:

Why is this
group important?

Protein
B vitamins
Vitamin E
Iron
Znc
Magnesium

## What if my resident does not like meat?

## You can senve:

- Poultry
- Fish
- Nuts



## Eggs

Avoid raw or partially cooked eggs or foods c onta ining raw eggs for your residents who might have health issues.

## What shall we serve the residents?

How about........

1. what they like!!
2. a nutnitiously, bala nced meal as desc ribed in the previousslides

Ummmm....what DO they like?

1OI Ask your residents!
iol Depends on the size of your facility, size of kitchen
What shall I serve?
od Budget
(O) Religious and cultural considerations
10 Physic al health concems
10) Mental health concems

## What shall I serve?

Generally, the residents in our communities love:

- Americ an comfort food, like meatloaf, mashed potatoes and gravy, etc.
- Iceberg lettuce salad
- Vegetables cooked very soft and mushy
- Ice cream, ice cream, ice cream
- Desserts like pie, cobblers, cakes




# What shall I serve? 

Will we serve:
fa mily style?
buffet style?
plated food?

## What sha II I serve?

Am I going to prepare a full breakfast each day or serve a Continental breakfast?



## Examples of good meal choices for.......

- Diabetics
- Residents with tooth pain or dentures that do not fit well
- Vegans


## Sources

- Department of Social Servic es Website for: RCFE and ARF Title 22, Health and Safety Codes and PIN's
- Choosemyplate.org
- American Heart Association
- World Health Organization
- The Whole GrainsCouncil
- EatingWell.com
- American Diabetes Association
- Dieta ryguidelines.com



## Conclusion

Assisted Living Education tha nks you for attend ing this Class.

We look forward to seeing you again at a nother of our Courses!


