Dietary Guidelines Advisory Committee Meeting 3
April 29, 2009

## Question 1:

In what ways does your work suggest that the current nutrition guidelines are problematic when applied at the school or community level? In what ways are the current guidelines effective? For example, how can food service managers in schools and other settings distinguish between foods that are the most healthy and those that are the least healthy? How useful is the discretionary calorie allowance concept for the lay public and food service manager in planning the amounts of various foods that should be consumed?

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Current Dietary Guidelines are believed to be:
Over the last 10 years the Center for Weight \& Health has conducted nearly 100 studies with hundreds of community partners.
Community interventions
Evidence based literature reviews
Program evaluations
Culturally relevant material development
Conference convening and sponsorship

Visit http://cnr. berkeley.edu/cwh/index.html

## 



- Credible- accepted as consensus of best scientific research available relating diet and health.
- Current- Updates assure State of the art information
- Comprehensive- covers a wide variety of key nutrients and foods
- Clear- at least regarding the messages for some foods e.g. eat more fruits and vegetables and less candy


## Concerns regarding the Dietary Guidelines include: Specificity (\#1)

- People want food-based specifics for translation of nutrient-based guidelines, eg: quantities, types, and classification of foods
- Many Dietary Guidelines are not specific enough for menu planners, i.e., lack information on "how to meet ..."


## A good example of specificity..

Some Dietary Guidelines are specific enough to be "met," specifying quantity, types, frequency, e.g.

Fruits and vegetables
"Consume a sufficient amount of fruits and vegetables while staying witbin energy needs... Two cups of fruit, and 2 1/2 cups of vegetables per day are recommended for a reference 2000 cal intake, with bigher or lower amounts depending on the calorie level"
"Choose variety from 5 vegetable sub-groups several times a week naveram

## Concerns regarding the Dietary Guidelines include: Complexity (\#2)

No systematic way of including the Dietary Guidelines in nutrition education

- "It's complicated"
- "You need to get on a computer to use the pyramid"
- "5-day was simple and useful"
- "Such complicated variable guidelines makes it too time consuming to teach"
- "A national set of bench markes and standards would be belpful in developing nutrition curriculum"


## An example of lack of specificity Lean, low fat foods

"When selecting and preparing meat, poultry, dry beans, and milk or milk products, make choices that are lean, low-fat or fat-free."

- What types of meat, beans, and milk products are these? How much and how often of which?
- Which foods in these groups are important sources of fat in American diet? Chicken drumsticks, pork chops, turkey hot dog? beans? cheese?

3. Concerns regarding the Dietary Guidelines include too much focus on nutrients (\#3)

Take for example the effort required by school personnel to decide on and monitor competitive foods in California schools after the passage of food and beverage legislation

It is possible that as a result, fruit and vegetable messages are more often transmitted and more often discussed

Nutrition education in schools when provided is highly focused on fruits and vegetables
and

WIC clients discuss issues related to vegetable messages.
'I am the role model... I used to be always in the candy or cookie department for my kids. Now] I ... start with the vegetables... it [is] better for us."
"He doesn't like vegetables and I try to make bim understand. I don't know how to tell bim bow important it is to eat vegetables."

## Brief Summary of California Senate Bill 12Competitive Foods

Snack may have no more than:
-35\% of its calories from fat (excluding legumes, nuts, nut butters, seeds, eggs, vegetables that have not been deep-fried, and cheese packaged for individual sale);
-10\% of its calories from saturated fat (excluding eggs and cheese packaged for individual sale);
-35\% sugar by weight (excluding fruits and vegetables);

- 250 calories (middle and high schools).


## Brief summary of California Senate Bill 965Competitive Beverages

Beverages sold to students must be from the following list:
-fruit-based and vegetable-based drinks that are at least 50\% fruit juice without added sweeteners

- Drinking water without added sweeteners
-Milk products (including $2 \%, 1 \%$, nonfat, soy, rice and other similar non-dairy milk)
-Electrolyte replacement beverages (containing no more than 42 grams of added sweetener per 20 -ounce serving).
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## Too much focus on nutrients

"As a Food Service Director: we now serve food that simply tastes okay. It's low fat, it's high fiber, it's low sugar, it's trans fat free with bigh nutrients values. It no longer resembles real food. It no longer tastes great or veren good. We used to be able to bake a small, friesh, satisbing chocolate chip cookeie. That bas been replaced by things like "fun shaped whole wheat chocolate flavored crackers.

When food is not satisfiving to one's palate, the consumer is left wanting. First we took out the fat and compensated with more sugar: People considered the result to be diet food and ate more, resulting in an equal or greater caloric intake. Next we got excited about the sugars and made sugar the villain. Then trans fats. Now sodium.

We bave become so nutrient focused we bave forgotten bow to enjoy, appreciate and savor real food. There are far too many confusing, conflicting rules and recommendations. People trying to eat bealthfully buy processed foods covered with bealth claims. More defined nutrition rules will not solve our problem, they mill only exacerbate it."

## Concerns regarding the Dietary Guidelines include

 little use of discretionary calorie allowance (\#4)- Discretionary Calories from the 2005 Guidelines are invisible - people don't know about them
- An understanding of discretionary calories is key to understanding how to select healthy foods
- One-quarter of children's calories are classified as empty calories. It is not likely that children are meeting their dietary needs
""It is clear that all foods don't fit"
- Nabisco - wheat thins crackers
- Nabisco - oreo-100 calorie pack cookies

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| Example of discretionary calories in a child's diet |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Timing | Foods \& Beverages | Extra Calories |
|  | AM Snack | Donut (vs Toast) | 99 |
|  | Lunch | 12 oz soda (us non-fat milk.) | 50 |
|  | Lunch | Tater tots (vs mashed potatoes) | 69 |
|  | PM Snack | 20oz Sports Drink (us water) | 140 |
|  | Dinner | Chicken nuggets (vs baked chicken) | 96 |
|  | Dessert | 1 cup Vanilla ice cream (vs NF vanilla yogurt) | 61 |
|  | Evening Snack | 2 choc chip cookies (vs 1 cup plain popcorn) | 86 |
|  |  | Approximate number of discretionary calories | 601 |
|  |  | Discretionary Calories Limit | 200 |
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## Proportion of Local Wellness Policies using Dietary Guidelines



## Local School Wellness Policies

1. The School Weellness Policy requires schools to set goals for nutrition education. While many mention the Dietary Guidelines, or MyPyramid, interview data shows there is difficulty including the Dietary Guidelines in nutrition education
2. Specific recommendations from the Dietary Guidelines can be used as the basis for setting nutrition standards for competitive foods and beverages in schools.
3. Some schools set higher nutrition standards for their reimbursable meals than current USDA requirements. For example, policy standards may include language such as, serving more whole grains, more fruits and vegetables, etc.
4. Many policies are based on model policies so the exact same language may be found in various districts.
--- Team Nutrition Local Wellness Demonstration Project
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## Examples of Local Wellness Policy Language

- ...Establisbing regulations that require all foods and beverages sold or served at school meet the nutrition recommendations of the U.S. Dietary Guidelines for Americans.
- ... Consume less than 2,300 mg (approximately 1 tsp of salt) of sodium per day. Choose and prepare foods with little salt.

While not a representative sample, 30 of 31 school districts in the Team Nutrition Local Wellness Demonstration Project
Either mentioned Dietary Guidelines (instruction and/or competitive foods)
Or referenced Dietary Guidelines information

- Inclusion of language from Dietary Guidelines in instruction and/ or competitive foods goals
- Mentioning state standards for competitive foods based, at least in part, on Dietary Guidelines
- Mentioning Food Guide Pyramid for instruction

Team Nutrition Local W Wellesss Demonstration Project.This project thas been funded at least in part with Federal unds from the U.S.Department of Agriculture, Food and Nutrtion Service, undera cooperative Agreement. The oes mention of trade names, commercial products, or organizations imply endorsement by the US Government.

More Examples of Local Wellness Policy Language
>... Choose foods that limit the intake of saturated and transfats School Foodservice Guideline: Butter, lard, shortening, margarine served on the "side" no more than twice a week. Foods made with these and containing $>10 \%$ kcals from saturated + trans fats not be served..."
>... Consume a variety of nutrient dense foods and beverages.... while choosing foods that limit the intake of ... added sugars

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More Examples of Local Wellness Policy Language
$>$ Crrriculum materials aligned with state framenorkes in subjects such as mathematics, science bistory.
Existing agencies aligned with State Frameworks:

- Dainy Council of Califormia
- UC Davis Cooperative Extension
- USD A MyPyramid Program
- Harvest of the Month
- CA Project Lean
- Nutritional integrity is a level of performance that assures that school sponsored foods.
a.Meet recommended dietary allowances and dietary guidelines,
b. Meet federal and state standards/ regulations. .
c.Provide for the development of lifelong, bealthy eating babits

tell

Alternative graphics: UC Cooperative Extension Nutrition, Family and Consumer Science Advisors are studying new ways to educate low income individuals


California Plate developed by UC Cooperative Extension Body Weight and Health Workgroup, 2007

## Question 3:

How can government nutrition guidelines convey usable information applicable to the school and community setting? For example, how is the pyramid being used, has it been adapted or have alternatives been developed by community groups?


## Question 4:

Drawing on your experience, what do you think needs to be done at the level of the federal nutrition guidelines to optimize nutrition for Americans in the school and community setting?

## Examples of healthy food definitions:

An elementary teacher in Oregon City wanted her students to bring only healthy snack foods to school. Not knowing how to find a practical definition of a healthy food, she defined it herself: any food that does not list sugar (in any of its forms) as one of the first three ingredients.
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## Examples of healthy food definition

After voting to increase lunch prices next year, Frankfort, Kentucky School Board member Sarah Call stated, "you can cut lots of costs in a food service program by getting prepackeaged foods and stuff that's not bealthy, but ultimately that's going to affect bow your students learn...."
If guidance is not provided, community will fill in the blanks.

Examples of unhealthy and healthy food

* 1 claims their entire menu is healthy (Cutpoints and criteria vary)
---- Jessica Soldavani and Jessica Ho, UC Berkeley undergrad students


## Examples of healthy food definitions-restaurants

Out of 124 chain restaurant websites -
33 say they have healthy menus or items designated as
"healthy"

* 7 have claims regarding low calories
* 19 have claims regarding low-fat or fat-free
* 8 have low-carb claims
* 4 have claims about sugar
definition

A School Nutrition Director states:
"The biggest problem is the chicken nuggets, tator tots, cbocolate milk, popsides, and canned fruit cocktail lunch... basing luncb on the number of nutrients, not on foods, is wreaking bavoc on children's dietary babits...."
Children will eat "real, whole foods if you bave.. some marketing and education."

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## And finally...

We need more translational research on the Guidelines and Pyramid.
'If schools are serving 30 million students per day and meeting regulations crafted from the Guidelines, how can only $2 \%$ of the cbildren be meeting the Guidelines?"

All suggested, keep it simple - use colors or checkmarks
in grocery stores and restaurants - or

Use food rating system like restaurants use A for Best Cboice
B for OK Choice
C for W orst Choice

Conizion

We need prompts to change behaviors and we need guidelines that will actually guide dietary practice.

