# **Dietary Guidelines Advisory Committee Meeting 3**

April 29, 2009

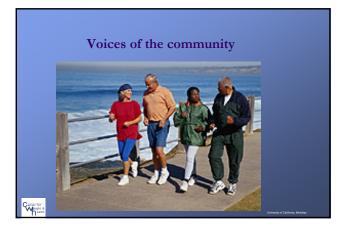
Pat Crawford, DrPH, RD CI: Child Obesity Specialist Adjunct Professor Co-Founder & Director Dr, Robert C. & Veronica Atkins Center for Weight and Health Iniversity of California at Berkeley

# **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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# 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 ..."

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# 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 regetables while staying within energy needs...Two cups of fruit, and 2 1/2 cups of vegetables per day are recommended for a reference 2000 cal intake, with higher or lower amounts depending on the calorie level"

"Choose variety from 5 vegetable sub-groups several times a week

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# Concerns regarding the Dietary Guidelines include: <u>Complexity</u> (#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 marks and standards would be helpful

in developing nutrition curriculum"

# An example of lack of <u>specificity</u> 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?

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# 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

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

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

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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 bow to tell bim bow important it is to eat vegetables."

WIC focus group quotes from Crawford, PB, JADA,

# Brief Summary of California Senate Bill 12-Competitive 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).

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# Brief summary of California Senate Bill 965-**Competitive Beverages**

- •fruit-based and vegetable-based drinks that are at least 50%
- •Drinking water without added sweeteners
- •Milk products (including 2%, 1%, nonfat, soy, rice and other
- •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 high nutrients values. It no longer resembles real food. It no longer tastes great or even good. We used to be able to bake a small, fresh, satisfying chocolate chip cookie. That has been replaced by things like "fun shaped whole wheat chocolate flavored crackers.

When food is not satisfying to one's palate, the consumer is left manting. 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 have become so nutrient focused we have forgotten how to enjoy, appreciate and savor real food. There are far too many confusing, conflicting rules and recommendations. People trying to eat healthfully buy processed foods covered with health claims. More defined nutrition rules will not solve our problem, they will only exacerbate it."

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# Kathleen Corrigan, School Nutrition Directo Mt Diablo Unified School District, CA. 4/09

#### Commonly found foods and beverages in a random sample of California high schools

#### Which are *adherent* and which are *non-adherent* to the standards?

- Frito Lay munchies flamin' hot snack mix
  General Mills chex mix traditional snack mix
  Propel flavored fitness water
  Gatorade fruit punch

- Nature Valley strawberry yogurt granola bar
  Nature Valley crunchy-oats 'n honey granola bar
  Tropicana strawberry melon drink

- Dole apple juice
  Nabisco wheat thins crackers
- Corn nuts ranch flavor
- Nabisco oreo-100 calorie pack cookies

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### 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
- •One-quarter of children's calories are classified as empty calories. It is not likely that children are meeting their
- •"It is clear that all foods don't fit"

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# Adherent and Non-adherent?

- Frito Lay munchies flamin' hot snack mix
- General Mills chex mix traditional snack mix
- Propel flavored fitness water
- Gatorade fruit punch
- Nature Valley strawberry yogurt granola bar
- Nature Valley crunchy-oats 'n honey granola bar
- Tropicana strawberry melon drink
- Dole apple juice
- Nabisco wheat thins crackers
- Corn nuts ranch flavor
- Nabisco Oreo-100 calorie pack cookies

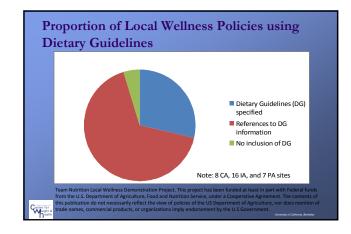
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# Example of discretionary calories in a child's diet

Timing	Foods & Beverages	Extra Calories
AM Snack	Donut (vs Toast)	99
Lunch	12 oz soda (vs non-fat milk)	50
Lunch	Tater tots (vs mashed potatoes)	69
PM Snack	20oz Sports Drink (vs 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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### **Question 2:**

the Dietary Guidelines?



#### Local School Wellness Policies

1. The School Wellness 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.
- 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**

- > ... Establishing regulations that require all foods and beverages
- > ... Consume less than 2,300 mg (approximately 1 tsp of salt) of sodium per day. Choose and prepare foods with little salt.

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# While not a representative sample, 30 of 31 school districts in the Team Nutrition Local Wellness **Demonstration Project**

- Mentioning state standards for competitive foods based, at least in part, on Dietary Guidelines

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### More Examples of Local Wellness Policy Language

... Choose foods that limit the intake of saturated and transfats served on the "side" no more than twice a week. Foods made with

>... 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

- > Curriculum materials aligned with state frameworks in subjects such as mathematics, science history science history... Existing agencies aligned with State Frameworks: Dairy Council of California UC Davis Cooperative Extension USDA MyPyramid Program Harvest of the Month
- •CA Project Lean

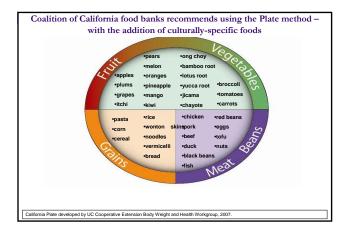
>Nutritional integrity is a level of performance that assures that school sponsored foods: Avariantial integrity is a level of performance into assures to a
 Meet recommended dietary allowances and dietary guidelines,
 Meet federal and state standards/ regulations...
 Provide for the development of lifelong, healthy eating habits

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

# **Question 3:**

usable information applicable to the school and community setting? For example, how is the pyramid been developed by community groups?



# What we hear about the guidelines/pyramid

- "It's complicated for people"
- "Teachers are not using the Pyramid because you need to get on a computer and walk through it, and that's a deterrent" "We were sad when the 5-A-Day message was no longer in use, because it was very easy to just talk about it on that simple level. The Pyramid is not helpful on a social marketing level"
- "When you have such specific, variable guidelines, it makes it hard to "when you have such specific, variable guidelines, it makes it hard to write a curriculum. We'd rather not say anything, because we can't say it all, so we just wind up talking about fruits and vegetables, because talking about the details is too time consuming." "Helpful for motivated individuals who want tailored messages, but it is here to write a write a write and write the state of the state of
- "Little guidance on how to integrate the Dietary Guidelines or MyPyramid into foods offered to students."

Healthy Kids Meal Wheel Developed by Ann Cooper, BUSD, CA, el.html#meal accessed 4/09 Center for height &

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# **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?

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### 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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### Recommendations from the community

Provide guidance on what constitutes a healthy food

Be simple, specific, clear, and give examples

If guidance is not provided, community will fill in the blanks.

# 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 prepackaged foods and stuff that's not healthy, but ultimately that's going to affect how your students learn...."

www.state-journal.com/news/article/4572208 4/22/09

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#### 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
- \* 1 claims their entire menu is healthy
- (Cutpoints and criteri
  - ---- Jessica Soldavani and Jessica Ho, UC Ber

# Examples of unhealthy and healthy food definition

A School Nutrition Director states

- "The buggest problem is the chicken nuggets, tator tots, chocolate milk, popsicles, and canned fruit cocktail lunch... basing lunch on the number of nutrients, not on foods, is wreaking havoc on children's dietary habits...."
- Children will eat "real, whole foods if you bave.. some marketing and education."

--- Ann Cooper, School Nutrition Director, BUSD, April 2009

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Food Group	One item or choice equals:	1 to 2	3 to 4	5 to 6	7 to 8
Grains 9 servings per person per day	Rice or Pasta, 16oz Oatmeal, 18 oz Loaf of Bread Cereal, 15 to 20 oz	2-3	4 - 5	6 – 7	8-9
Vegetables 5 servings per person per day	Fresh Veggies, 1 bag or bunch Spaghetti Sauce, 15 oz Canned or Frozen Veggies, 16 oz Instant Potatoes, 15 oz	3-6	7-9	11 – 12	2 13-14
Fruits 4 servings per person per day	Fresh Fruit , 1 bag Canned or Dried Fruits, 15 oz Fruit Juice, 46 oz	3-6	7 - 9	11 - 12	13 - 14
Dairy 3 servings per person per day	Fluid Milk, 32 oz (1 quart) Dry Milk, 25 oz Ricotta Cheese, 16 oz 4 Yogurts, 6oz each Mozzarelia Cheese, 8 oz	2-3	4-5	6-7	8-9
Meat & Non-meat Proteins 2 servings per person per day	Peanut Butter, 18 oz Eggs, dozen Frozen Meat, 16 oz Tuna, 6 oz Canned Beans or Meat, 15 oz	2-3	4 – 5	6 – 7	8 – 9
Combination Foods	Soup, 15 oz Mac & Cheese, 1 box Meals in a Box, 1 box	1 – 2	3 – 4	5-6	7 – 8
Fats &Oils	Margarine or Butter, 1 pound Vegetable Oil, 48 oz				

# 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 children be meeting the Guidelines?"

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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 Choice B for OK Choice C for Worst Choice

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

> > --- Dr. Armando Valdez, Behavioral Scientist, HealthPoint Communications

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