Growing up Healthy in East Harlem:

An Interactive, Culturally Sensitive Nutrition Curriculum



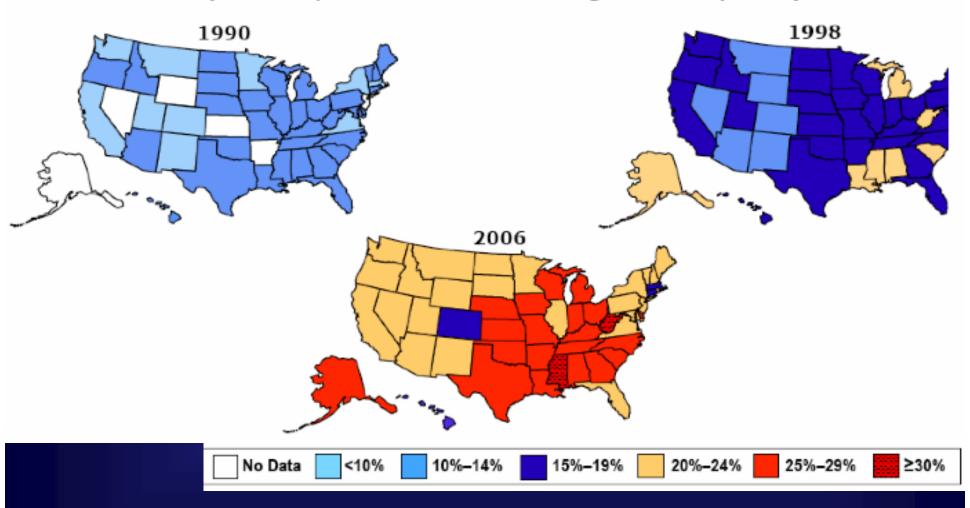
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Obesity Trends* Among U.S. Adults BRFSS, 1990, 1998, 2006

(*BMI ≥30, or about 30 lbs. overweight for 5'4" person)



CDC. State-Specific Prevalence of Obesity Among Adults — United States, 2005; MMWR 2006; 55(36); 985–988

Health Consequences of Obesity

Cardiovascular/Respiratory

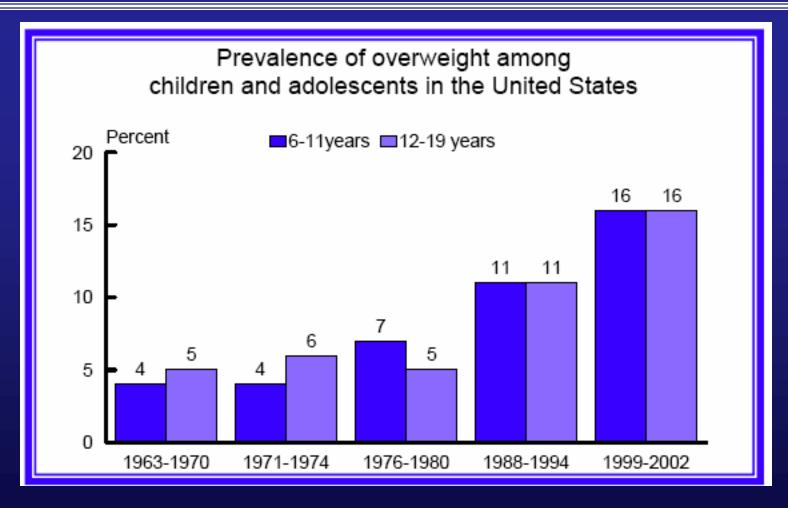
- Hypertension
- Hyperlipidemia
- Type 2 Diabetes Mellitus
- Deep Vein Thrombosis
- Stroke
- Sleep apnea
- Asthma



Other

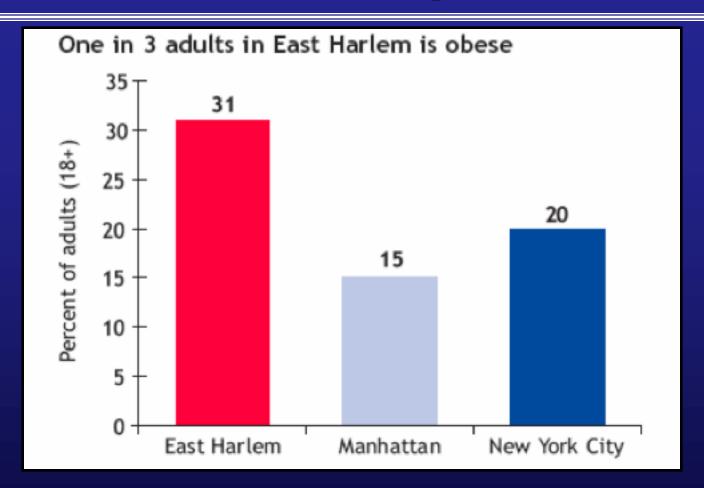
- Osteoarthritis
- Some cancers
- Hepatobiliary
- **.**PCOS
- Psychosocial

Childhood Obesity



Hedley et al. Prevalence of overweight and obesity among US children, adolescents, and adults, 1999-2002.. *JAMA*. Vol 291, No 23 (June 2004), pp. 2847-50.

East Harlem: Higher Risks



Olson EC, Van Wye G, Kerker B, Thorpe L, Frieden TR. Take Care East Harlem. NYC Community Health Profiles, Second Edition; 2006; 21(42):1-16. www.nyc.gov/html/doh/html/tcny/index.shtml

School-based Interventions

"School-based health promotion has sustainable effects on nutritional knowledge and remission of overweight."



Danielzik et al. School-based interventions to prevent overweight and obesity in prepubertal children. Acta Paediatr Suppl. 2007

An Interactive, Culturally Sensitive Nutrition Curriculum

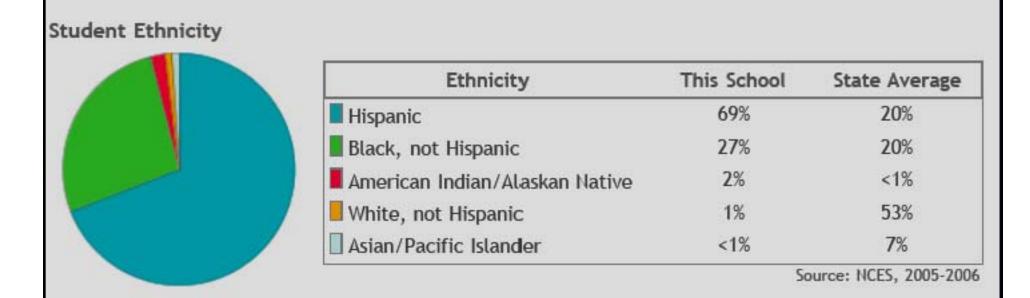
- Interactive:
 - —Engaging
 - -Age-appropriate
 - -Enjoyable
- Culturally Sensitive
 - -Respectful
 - —Adaptable
 - -Relevant



Isaac Newton Middle School

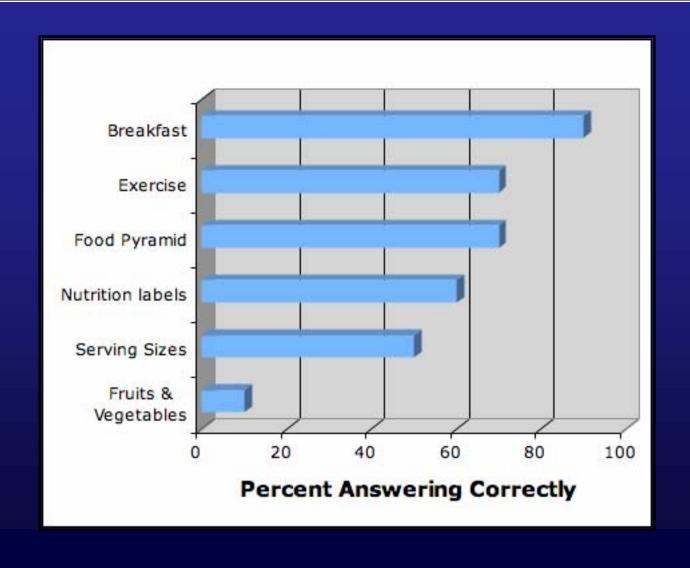


Student Ethnicity



National Center for Education Statistics, 2006

Pre-test Results

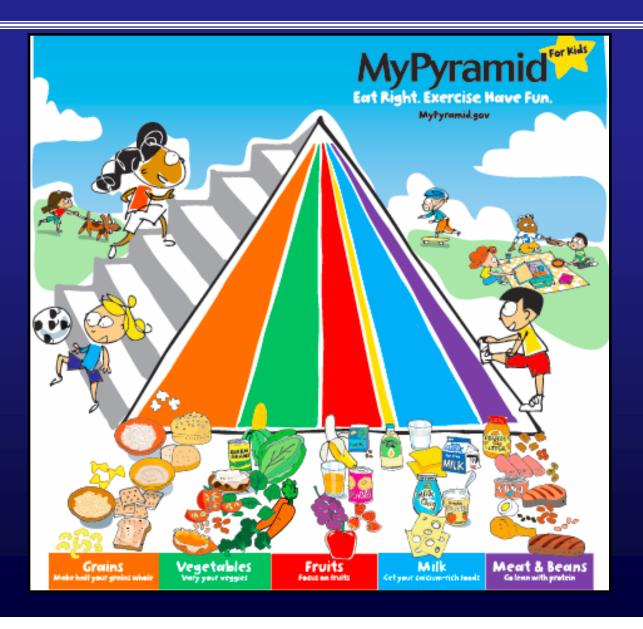


Curriculum Modules

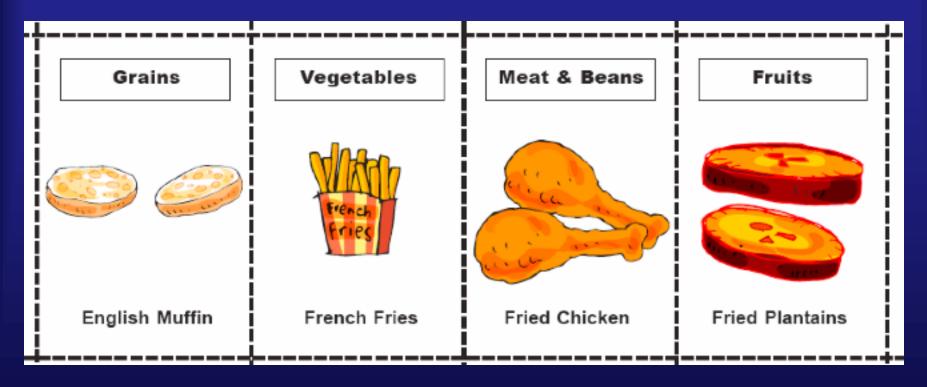
- 1. What should I eat?
- 2. What's in my food?
- 3. Listening to my body
- 4. Being active!
- 5. Making good choices
- 6. Moving forward



1. What Should I Eat?



1. The Food Groups



"Go Fish Game" http://teamnutrition.usda.gov/resources/go-fish_color.pdf

1. Keeping a Food Journal

Check how you did yesterday and set a goal to aim for tomorrow

		-	100
B* B /	_	1.71	12.70
	-		

Write In Your Choices From Yesterday	Food and Activity	Tip	Goal (Bused On a 1800 Calorie Pattern)	List Each Food Choice In Its Food Group*	Estimate Your Total
Breakfast:	Grains	Make at least half your grains whole grains.	6 ounce equivalents (I ounce equivalent is about 1 slice bread, 1 cup dry cereal, or ½ cup cooked rice, pasta, or cereal)		ounce equivalents
Lunch:	Vegetables	Color your plate with all kinds of great tasting veggies.	2½ cups (Choose from dark green, orange, starchy, dry beans and peas, or other veggies).		cups
Snack:	Fruits	Make most choices fruit, not juice.	1½ cups		cups
Dinner:	Milk	Choose fat-free or lowfat most often.	3 cups Cup yogurt or 1		cups
Physical activity:	Meat and Beans	Choose lean meat and chicken or turkey. Vary your choices—more fish, beans, peas, nuts, and seeds.	5 ounce equivalents [I ounce equivalent is I ounce meat, chicken or turkey, or fish, I egg, I T. peanut butter, ½ ounce nuts, or ¼ cup dry beans)		ounce equivalents
	Physical Activity	Build more physical activity into your daily routine at home and school.	At least 60 minutes of moderate to vigorous activity a day or most days.		minutes

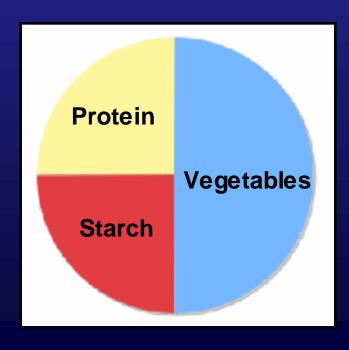
2. What's in My Food?



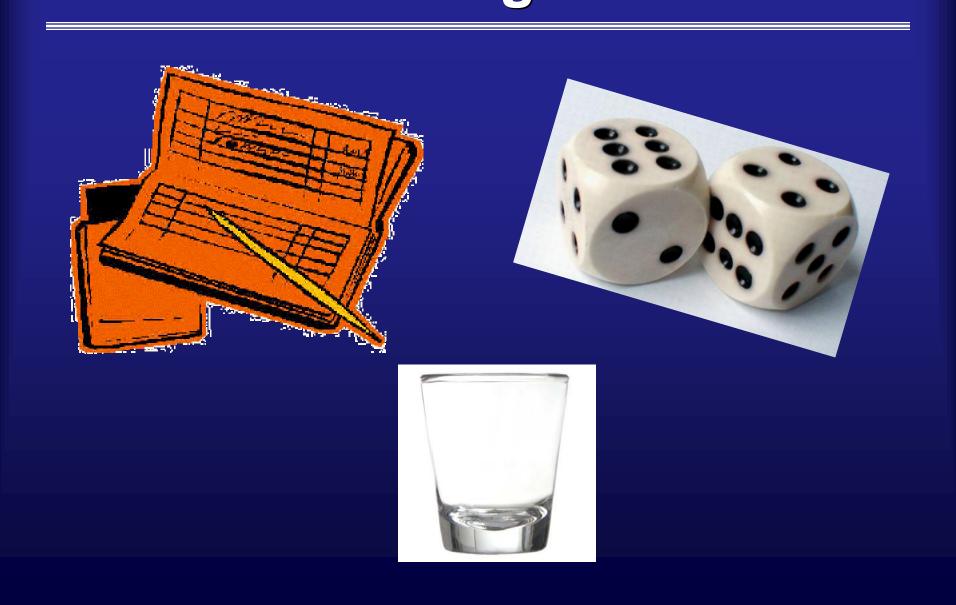
Nutrition Facts Serving Size 1 cup (236ml) Servings Per Container 1	
Amount Per Serving Calories 80 Calories from Fat 0	
% Daily Value*	l
Total Fat Og 0%	l
Saturated Fat Og (%)	l
Trans Fat Og	
Cholesterol Less than 5mg 0%	l
Sodium 120mg 5%	l
Total Carbohydrate 11g 4%	l
Dietary Fiber Og 0%	l
Sugars 11g	l
Protein 9g 17%	l
Vitamin C 49/	l
Vitamin A 10% Vitamin C 4%	l
Calcium 30 % → ron 0% → Vitamin D 25%	l
*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs:	

3. Listening to My Body:

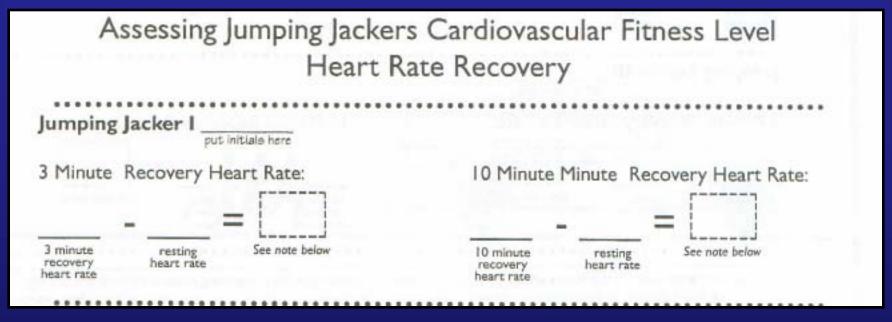
- Strategies for Success
- Sharing with others
- Saving for later
- Serving Sizes
- Simple Goals

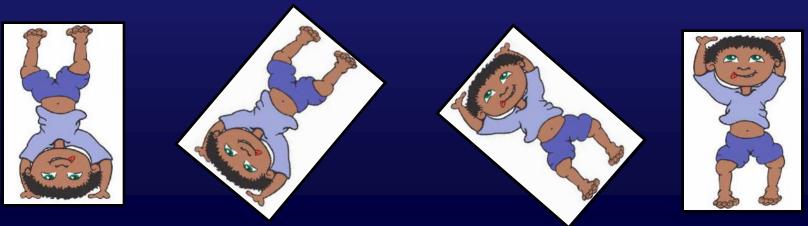


3. Serving Sizes

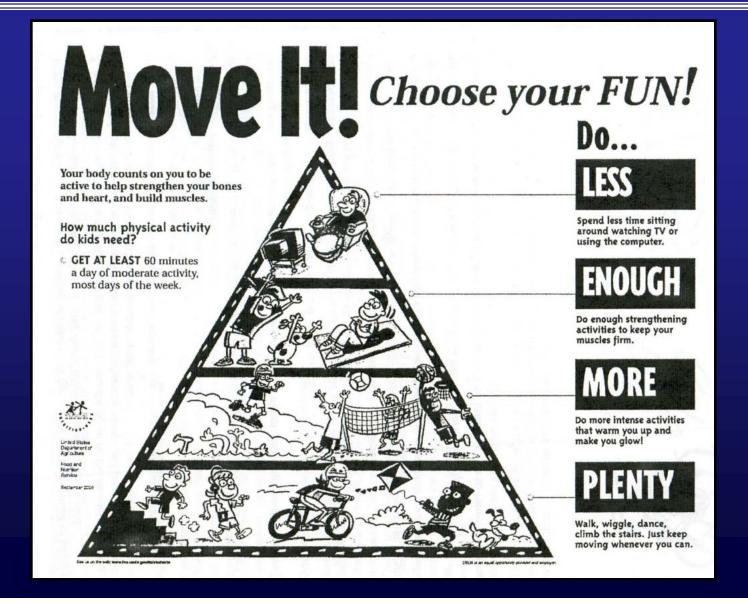


4: Being Active!





4. Exercise Ideas

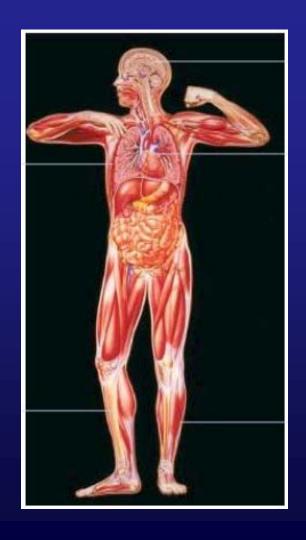


4. Incorporating Exercise

Feel Your Pulse!

- ✓ Jumping Jacks
- ✓ Chair Push-ups
- √ Wall Push-ups
- ✓ Wall Sits
- ✓ Walking

Whole Body Benefits



5: Making Good Choices



5: Making Good Choices

Candy

Candy



Candy

Candy

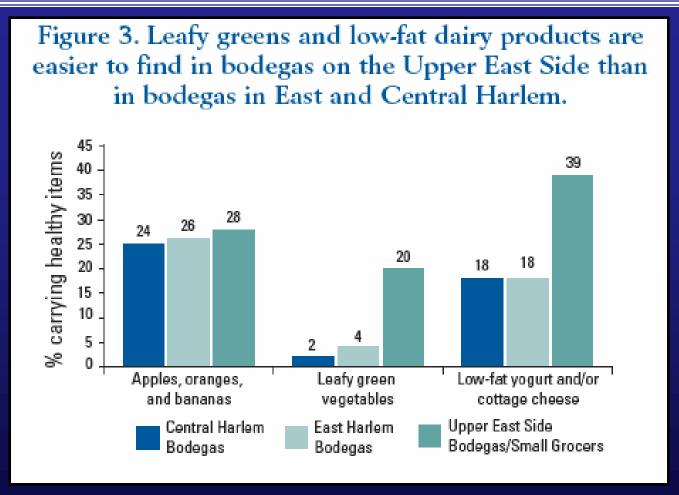
Yogurt

Apples

5. Storewide Scavenger Hunt

DILOUM	I DULL
Breakfast Menu	LUNCH MENU
2 EGG W/CHEESE ROLL 1.50 HERO 2.25	HAMBURGER 1.50 WILET & TOM 2.00 DLX. 275 WIFRIES
2 EGG W/BACON OR SAUSAGE OR HAM ROLL 200 HERO 275	CHEESEBURGER 175 WILET & TOM 225 DLX, 3.00 WIFRIES
	CHOP CHEESE 2.25 COMBO (FRIES, CAN SODA) 3.50
WCHEESE ROLL 2.25 HERO 3.00	FRENCH FRIES 1.00 WICHEESE 1.25
2 EGG WIBACON ON SAUSAGE WIFRIES OR HASH BROWN 2.50	GRILLED CHICKEN WICHEESE, LET, TOM, ROLL 3.75 HERO 4.75
STUDENT SPECIAL BIEIC 1.50	GRILLED STEAK WICHEESE, LET, TOM, ROLL 3.75 HERO 4.75
UNTIL 1 PM	
AUGUSTA DALL	ANY COLD CUT SANDWICH (HOT OR COLD) ROLL 2.75 HERO 3.75 WILET & TOM ADD 500
BIARL ARRAM AMERICA	HOT DOG 1.00
BAGEL CREAM CHEESE 75¢ WIJELLY 1.00	CHICKEN NUGGETS (6) W/ FRIES 2.50
CORN MUFFIN W/BUTTER 1.25 W/JELLY 1.50	CHICKEN TENDERLOINS (2) WIFRIES 2.25
	OHIOMATI TAMESTOCK
COFFEE, CHOCOLATE OR TEA SM. 600 LG. 1.00	CHICKEN QUESADILLA

5. East Harlem



Gordon C et al. Eating Well in Harlem: How Available Is Healthy Food? New York, NY: New York City Department of Health and Mental Hygiene, 2007.

6. Healthy @ Home

Tacos from

Ingredients:

Tortilla

Vegetable Oil

Chicken

Lettuce

Tomatoes

Onion

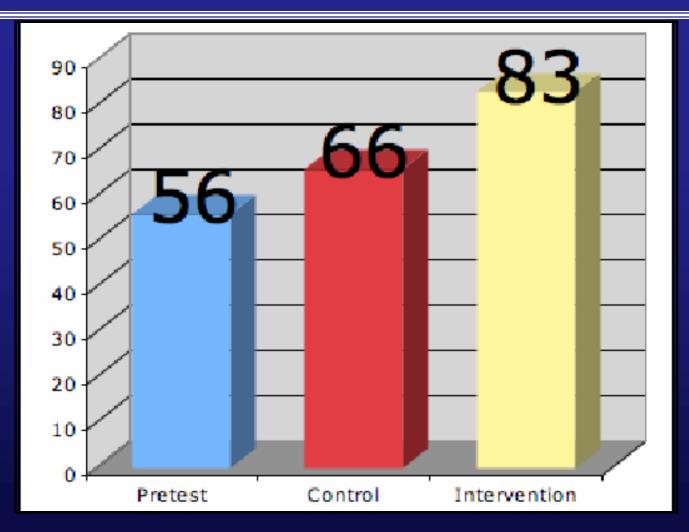


Instructions: Lightly grease the pan with oil. Put the tortilla on the pan. In another pan, put tablespoon of oil and add the cut-up chicken. Stir-fry the chicken. Put together the tortilla with the chicken and vegetables and enjoy!

What are the healthy things about this dish?

Great balanced meal. Chicken is a low fat protein, especially if you take off the skin. Go easy on the oil and pile on the vegetables!

Post-Test Results



p < 0.0001

Challenges & Limitations

- Knowledge -> Attitude -> Behavior
- Influences: peer pressure, family, media
- Range of math and literacy skills
- Access to healthy choices



"Slim = healthy" vs "slim = beautiful"

Conclusions

- Adapt resources to population, age
- Incorporate culture into curriculum
- Emphasize relevance, importance
- Encourage healthy habits
- Partner with communities
- Simplify messages



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Thanks to: Elizabeth Garland, MD; Andrea Rothenberg, LCSW