

Childhood Obesity

May Okihiro, MD, MS October 08,2012

Assistant Professor, UH JABSOM Department of Pediatrics

Director, Hawaii Initiative for Childhood Obesity Research and Education (HICORE)

Pediatrician, Waianae Coast Comprehensive Health Center

Email: okihirom@hawaii.edu

Childhood and adolescent obesity

- Most common chronic disease in childhood
- Obese children are at significantly higher risk of developing cardiovascular disease, diabetes and stroke later in life
- If a child is overweight or obese in childhood, adult obesity is more likely and more severe

Childhood Obesity

- Begins VERY early
- Pregnancy
 - Maternal diabetes
 - Maternal obesity
- Early childhood
 - Birthweight
 - Small for gestational weight
 - Large for gestational weight
 - Rapid growth in early childhood
 - Crossing major percentile lines (Ex: 25%→50%)
 - Breastfeeding vs. bottle feeding
 - Other factors...

The world has changed.

Bagel

Calorie difference: 210 calories





3-inch diameter 140 calories

6-inch diameter 350 calories

Cheeseburger Calorie difference: 257 calories





333 calories

590 calories

French Fries Calorie difference: 400 calories





2.4 ounces 210 calories

6.9 ounces 610 calories

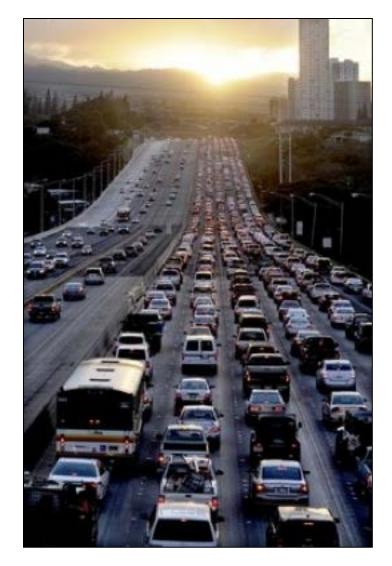
Soda

Calorie difference: 165 calories



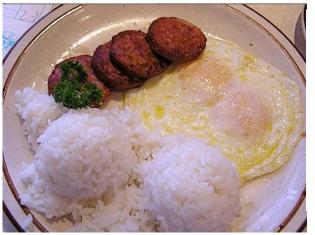


20 ounces 250 calories





Social norm in Hawaii





















2007-2008

BMI	≥ 85%	≥ 95%	≥ 97%
All	31.7%	16.9%	11.9%
6-19 years	34.7%	18.7%	13.3%
2-5 years	21.1%	10.4%	6.9%
White 2-5 years	17.4%	9.1%	5.5%
Black 2-5 years	26.0%	11.4%	8.7%
Hispanic 2-5 years	27.7%	14.2%	9.8%

Ogden et al , JAMA 2010 his project was provided by the HMSA Foundation.

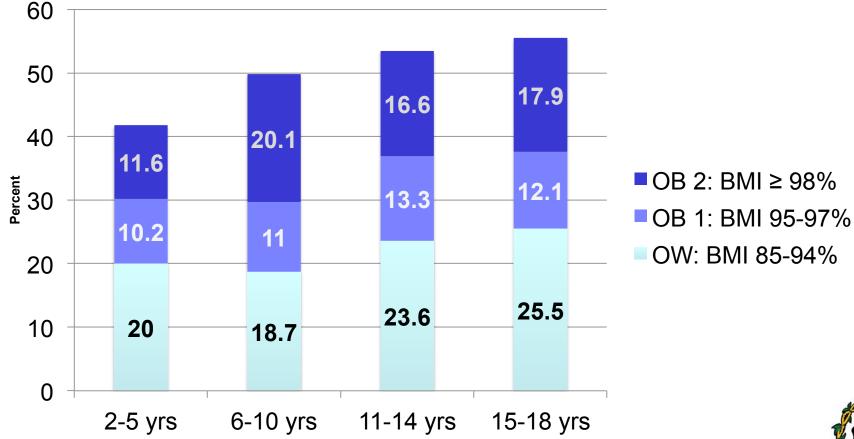


	%	% OW	% OW/OB
	Obese		
State (N=10,199)	14.4	14.1	28.5
Aiea (N=247)	8.1	17.8	25.9
Castle (N-370)	15.4	13.5	28.9
Farrington (N=483)	15.5	17.2	32.7 🛑
Kahuku (N=188)	19.7	16.0	35.7 🛑
Kaiser (N=119)	7.6	10.1	17.6
Kalani (N=249	7.6	10.1	20.5
Leilehua (N=553)	13.4	15.9	29.3
Nanakuli (N=148)	17.6	10.8	28.4
Waialua (N=59)	22.0	17.0	39.0 🛑
Waianae (N-302)	15.9	14.2	30.1
Waipahu (N=483)	19.9	12.6	32.5

Hawaii (N=1310)	15.1	15.2	30.3
Central Hilo (N=215)	16.3	14.0	30.3
Hilo (N=241)	17.0	14.5	31.5
Honokaa (N=200)	16.5	18.0	34.5 🛑
Kau (N-41)	14.6	17.1	31.7
North Kona (N=221)	15.4	13.1	28.5
South Kona (N=120)	8.3	14.2	22.5
Kauai (N=488)	12.5	16.4	28.9
Central Kauai	9.0	14.2	23.2
(N=233)			
West Kauai (N=141)	14.9	22.0	36.9 🛑
Maui County	17.9	13.8	31.7
(N=1167)			
Baldwin (N=203)	17.2	17.7	34.9
Hana (N=17)	35.3	11.8	47.1 🛑
Kekaulike (N=275)	15.6	12.7	28.3
Lahainaluna (N=124)	27.4	17.7	45.1 🛑
Lanai (N=30)	20.0	26.7	46.7 🛑
Molokai (N=67)	17.9	13.4	31.3

OW/OB Prevalence-Children attending WCCHC

Year: 2011, N=2,143



NHANES Children 2-19 years: 16.9% were obese with BMI \ge 95% NHANES Children, 6 to 19 years: 18.2% were obese



Hawaii Youth Metabolic Study (HYMS)

- Based at UH JABSOM Dept. of Native Hawaiian Health - Center for Pacific and Native Health Disparities
- NIH, National Institute for Minority Health and Health Disparities No:P20MD000173
- Questions:
 - What are the consequences of obesity in Native Hawaiian and Pacific Island kids?
 - Aren't Pacific Island kids just big boned?

Consequences of childhood obesity Hawaii Youth Metabolic Study

- 5 year study funded by NIH-NIMHD, Based at WCCHC and KKV Health Center
- Goal: Examine the development of metabolic syndrome and Samoan youth, 10 to 14 years of age
- Metabolic syndrome (MetS) is a group of risk factors that increases risk for cardiovascular disease and other health problems such as diabetes and stroke.

Hawaii Youth Metabolic Study

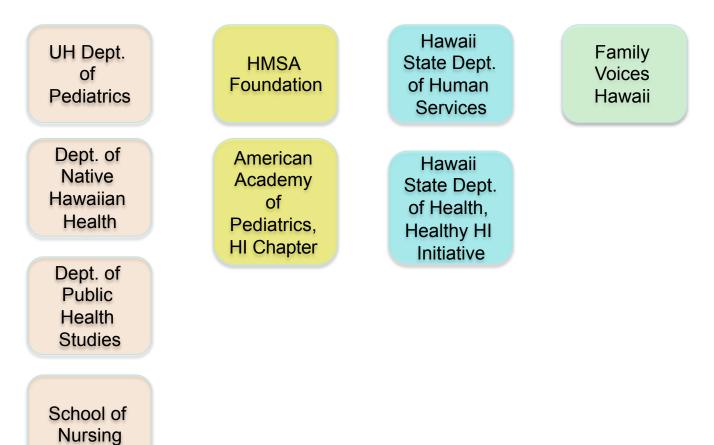
	OW	ModOB	SevOB
Fasting Glucose ≥ 100 mg/dl	6.9%	9.8%	11.0%
HDL ≤ 5% age/sex	11.6%	16.9%	27.0%
Triglycerides ≥ 95% age/sex	23.2%	30.2%	48.0%
Blood Pressure ≥ 90% age/sex	3.3%	3.8%	10.0%

Hawaii Youth Metabolic Study

- Insulin resistance and pre-diabetes are strong risk factors for diabetes and cardiovascular disease.
- Among the Native Hawaiian and Samoan youth, a very high proportion of the adolescents had elevated fasting insulin levels and elevated HOMA 2-IR (a measure of insulin resistance)

	OW	ModOB	SevOB
Fasting insulin ≥ 50 uU/mL	20.9%	23.5%	65.3%
HOMA 2-IR ≥ 4.0	58.1%	58.2%	89.7%

HICORE Network 2009







Hawaii Initiative for Childhood Obesity Research and Education

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News Events Hawaii 5-2-1-0 Let's Go!



Research and Education Targeting Childhood Obesity

Providing collaborative and multi-disciplinary leadership in research and education targeting childhood and adolescent obesity in Hawaii to improve the health and wellness of Hawaii's families now and for future generations.

ABOUT



Research

Current Projects

Hawaii Health Matters Pacific Diabetes Program

Pacific Kids DASH for Health (PacDASH)

Hawaii Youth Metabolic Study

Healthy Pacific Child Program & Health Foods Hawai'i

Pacific Islands Families Study Hui Malama O Ka Kai

Education

Pediatric Obesity Prevention Training "Well Child Visit: A Family Obesity Prevention Opportunity" Earn CME now: 2010-2011

Unnatural Causes: Social Determinants of Childhood Obesity May 13, 2010, 12:30 - 1:30 pm

An Epidemic of Poor Nutrition & Physical Inactivity: Local Strategies to Turn

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School Funds at the Forefront of Research Initiatives

UH DHHS Awards Wellness and Prevention Grants to 44 Communities

VISIT NEWS

Research / Current Projects

CURRENT PROJECTS

The following are some of the current projects taking place in Hawai'l or involving Native Hawaiian and Pacific Island children and families. Some are research projects while others are service projects and programs that we can all learn from. We know there are other programs out there that we might not be aware of. If you have a project or an on-going program related childhood obesity in Hawai'i or the wellness of our keiki, please let us know.

Ho'ala - fighting obesity in Hawai'i County

New Project Involves 12 Big Island Schools

Hawai'i is one of only eight locations in the U.S. to receive the "rapid response funding award" to launch a partnership between schools, the community and government to fight obesity in Hawai'i County. The Robert Wood Johnson Foundation's Active Living Research Program has provided nearly \$150,00 to the Office of Public Health Studies to launch "HO'ALA". The word ho'ala means "to waken", but it also stands for Hawai'i's Opportunity for Active Living Advancement.

Coordinators are Dr. Katie Heinrich and Laura Dierenfield of Peoples Advocacy for Trails Hawai'i. They are working with 12 public and private schools in Hawai'i County to improve access to more active ways for children to get to and from class. "We want to make it easy, fun and safe to get daily exercise by walking or bicycling to school," said Dierenfield. Added Heinrich, "We hope to impact childhood obesity and help reduce the nearly \$300 million spent annually in Hawai'i to treat obesity-related diseases."

Helping communities in need is also a goal. Participating schools have at least 35% of their students eligible for free or reduced-cost lunch.

For more information, visit www.pathhawaii.org.

Hawaii Health Matters

The Hawai'i Health Data Warehouse new companion data website. A one-stop resource for information about community health in Hawai'i, and healthy communities in general.

Pacific Diabetes Education Program

PDEP is a five-year project funded by the Centers for Disease Control and Prevention to improve the availability and dissemination of culturally and linguistically appropriate diabetes education materials. PDEP is a program of Papa Ola Lokahi, a community organization that focuses on Native Hawaiian health.

Pacific Kids DASH for Health (PacDASH)

Principal Investigator: Rachel Novotny

Pacific Kids DASH for Health (PacDASH) is a community-based intervention that links food, PA, and health, and targets overweight children in Hawai'i with a scal of proventing further unlike scale. Comparents of the intervention



Current Projects

Recent Publications

Hawaii & Pacific Island Childhood Obesity Research Database

Research Resources

Funding Opportunities







About	Collaborations	Research	Education	News	Events	Hawaii 5-2-1-0 Let's Go!
Rese	arch /Recent P	ublications				
RECENT PUBLICATIONS					Current Projects	
Other Publications				Recent Publications		
Hawaii Medical Journal Childhood Obesity Special Issue					Hawaii & Pacific Island Childhood Obesity Research Database	

Research Resources

Funding Opportunities

The Hawaii Medical Journal published a HICORE supplement to their July 2011 issue:

The purpose of this supplement is to start to look at and evaluate evidence of the burden of obesity in Hawai'i and to present potential options for the management of obesity at the community level. It represents the efforts of local researchers, it provides an excellent overview of the obesity situation in Hawai'i, and it helps us to elucidate some of the social factors infl uencing the rate of obesity in

Hawai'i.

The Journal's aim is to provide new scientifi c information in a scholarly manner, with a focus on the unique, multicultural, and environmental aspects of the Hawaiian Islands and Pacifi c Rim region.

To see the issue, click here.

Journal Of Health Disparities Research and Practice

The Journal of Health Disparities research and Practice is peer-reviewed online journal that explores the problems and challenges of health disparities among the diverse populations of the United States and the world. The journal invites submission of original papers from researchers, public health practitioners, and students researching and working on health disparities solutions. Submissions are copyright protected with all rights remaining with the author. The journal publishes three times per year - Spring, Summer, and Fall.

The real cost of obesity

In its January 2011 Newsletter, Chart Focus shows how an obesity pandemic has put pressure on health care systems throughout the world. Obesity indirectly costs the United States at least \$450 billion annually-almost three times the direct medical cost. The situation is comparable in other countries as well.

Sleeping in on weekends may lower obesity risk in children



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You may also search by author's last name (You do not need to use the [au] designation).

Search Published Projects

child, obesity, pacific

RESEARCH PUBLICATIONS

Total Results: 116 - Next 20 Results

Research Articles

Predicting Time Trade-Off Health State Valuations of Adolescents in Four Pacific Countries Using the Assessment of Quality-of-Life (AQoL-6D) Instrument

SEARCH

Moodie, M., Richardson, J., Rankin, B., lezzi, A., Sinha, K.

Value Health. 2010 Sep 10;13(8):1014-27

Pacific Islands, Melanesia, Polynesia, New Zealand, Child, Obesity

Physical activity, sedentariness, and body fatness in a sample of 6-year-old Pacific children

Oliver, M., Schluter, P. J., Rush, E., Schofield, G. M., Paterson, J.

Int J Pediatr Obes. 2010 Sep 4.

Pacific Islands, Polynesia, New Zealand, Pacific Islander, Polynesian, Maori, Child, Adult, Body Size, Obesity, Physical Activity

Asians and Pacific Islanders and the growing childhood obesity epidemic

Shabbir, S., Kwan, D., Wang, M. C., Shih, M., Simon, P. A.

Ethn Dis. 2010 May 28;20(2):129-35

Pacific Islander, Asian, Child, Body Size, Adolescent, Asian Americans, Body Mass Index, California/epidemiology, Child, Female, Humans, Male, Obesity/epidemiology/ethnology, Oceanic Ancestry Group, Overweight/epidemiology/ethnology, Prevalence

Ethnic-specific body mass index cut-off points for overweight and obesity in girls

Duncan, J. S., Duncan, E. K., Schofield, G.

N 7 Mod 1 2010 Apr 3:122(1211):22.0

Does physician advice influence behavior?

- Patients who received physician advice to quit smoking, eat less fat, get more exercise PRIOR to receiving educational materials on the same topic were more likely to:
 - Remember materials
 - Show them to others
 - Perceive the materials as applying to them
- And were more likely to change behavior
 - Quit smoking for at least 24 hours
 - Make changes to diet
 - Make changes in physical activity

~Kreuter, Ann Fam Med 2000



Westside Wellness Alliance for Youth

- Collaboration with Waianae Coast Comprehensive Health Center and Kaiser Nanakuli Clinic
- Develop process and procedures to address childhood obesity in the clinical setting
- Funded Kaiser Permanente Community Benefit Program

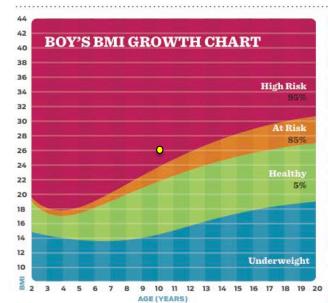
Integrating obesity prevention and management into the WCCHC Peds Clinic Flow

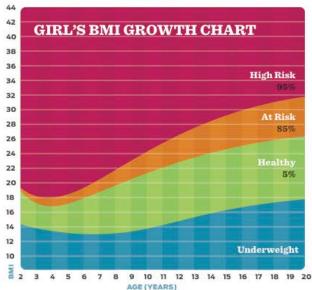
- Trained staff and providers on CO best practices
- Developed and integrated EMR based clinical prompts to optimize obesity prevention processes
 - BMI screening
 - Wellness survey administration
 - High BMI templates
- Integrated registered dieticians into clinic flow
 - Administer Wellness Survey
 - Available to patients/families at Well Child visits
- CO Educational materials available at fingertips

Your Child's Growth

HELPING CHILDREN DEVELOP HEALTHY LIFESTYLES

Doctors screen children for growth problems using a number called body mass index or BMI. BMI is calculated from weight and height and, for children, plotted on the BMI growth chart. The percentile rank on the chart helps doctors to estimate body fat and determine if the child's weight is about right for his height.





HIGH RISK

Children in this zone are at high risk for developing chronic diseases such as diabetes, high cholesterol, high blood pressure and heart disease. This risk goes up if the child's family has a history of these diseases. Your doctor may decide to do some extra tests on your child. Your doctor may also see your child more often to monitor BMI and blood pressure.

AT RISK

Children in this BMI zone are at risk for developing chronic diseases such as diabetes. Discuss these risks with your child's doctor.

HEALTHY

Great job! Continue to offer your child healthy foods and time to play and move so she or he will stay in this zone.

UNDERWEIGHT

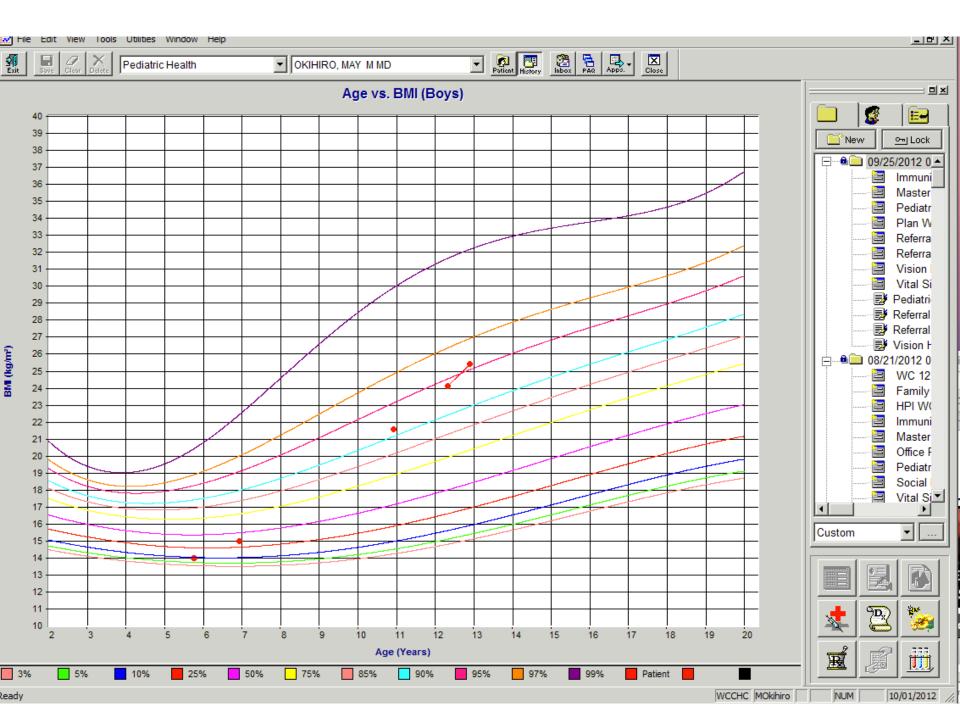
Children in this BMI zone may be underweight. Discuss this with your child's doctor.

BMI REPOR'	
DATE	
CHILD'S NAME	
WEIGHT	HEIGHT

MR No	extGen EMR: CHILD TEST - [09/23/2010 06:06 AM : " Wellness Survey WCCHC"]
File	e Edit Default View Tools Utilities Window Help
Exit	Save Clear Delete Pediatric Health OKIHIRO, MAY M MD Patient History
	We are interested in helping your child and family to be healthy. This includes roomoting healthy lifestyles, physical addity, and nutrition. Pasea take a moment to answer the questions about your child. Your doctor will review your answers during your visit today. Form administered by: MA C Provider C D Parentlygardianiself Person completing/responding to this Form: Ifeel my child's health is: Ifeel my child's health is: Ifeel my child's health is: Ifeel my child eats about Servings of fruits each day. I don't know My child eats take out, fast food or restaurant food Itime(s) a week. I don't know Wy child usually eats dinner at the table with the family I time(s) a week. I don't know My child drinks Cups of milk per day. I don't know At home my child drinks the following type of milk: My child spends about I ourges of milk per day. I don't know My child drinks the following type of milk: My child spends about I ourges of milk per day. I don't know My child drinks the following type of milk: My child spends about I ourges of milk per day. I don't know My child drinks the following type of milk: My child spends about I ourges of milk per day. I don't know My child drinks the following type of milk: My child has a television in his bedroom: My child has a television in his bedroo
	How many days per week is your child physically active, outside of school, for at least 60 minutes (walking, running, playing outside, dancing, etc)
	How many days per week is your child physically active, outside of school, for at least 60 minutes (walking, running, playing outside, dancing, etc)
ħ	Any other comments or concerns?
1	

🔄 File Edit Default Vie	ew Tools Utilities Window Help	
Exit Save Clear Clear	Pediatric Health 💽 OKIHIRO, MAY M MD	
🙊 🕕 🕎 🧟	Assessment	
Navigation HOME Demographics Record Vital Signs Nurse Doc 	Today's Concern(s)/Reason for Visit 12 yr/sports PE (Highlight row below and click "Add" button to add to today's assessments.) Add New Chronic Problem Add Add New Chronic Problem Add Astima, intrinsic unspecified 493.10 Previous Assessments Code UNSPECIFIED INTRINSIC ASTHMA 493.10 Mid Overweight (278.02) MI Assessment: Underweight (783.22) Overweight (278.02) Obest (278.00) BMI Assessment: Underweight (783.22) Overweight (278.02) Obest (278.00) BMI < 5% (V85.51) BMI 5-84.9% (V85.52) BMI Assessment: Underweight (783.22) Overweight (278.02) Obest (278.00) BMI Assessment: Dudetast 200 Outine Infant/Child Health Visit 202.2 Notice Infant/Child Health Visit 202.2 Routine Infant/Child Health Visit 202.2 BMI Pediatric >95%, Obese V65.54 Obesty, unspec 278.00 BMI Pediatric >95%, Obese 01ff. Dx Off. Dx 01ff. Dx Othealt 01ff. Dx Oth	New On Lock Plan WCCHC Master IM WCCHC Master IM WCCHC Master IM WCCHC PSDT Screening Family Hx WCCHC Histories (Male) WC HPI WCCHC Assessment WCCH Master Im WCCHC Master Im WCCHC Physical Exam WC Office Px WCCHC Plan WCCHC Plan WCCHC Plan WCCHC Plan WCCHC Vision Hearing WC Vital Signs Record Wellness Survey W Lab Master IM WCCHC Master IM WCCHC Vision Hearing WC Vital Signs Record Wellness Survey W Lab Master IM WCCHC
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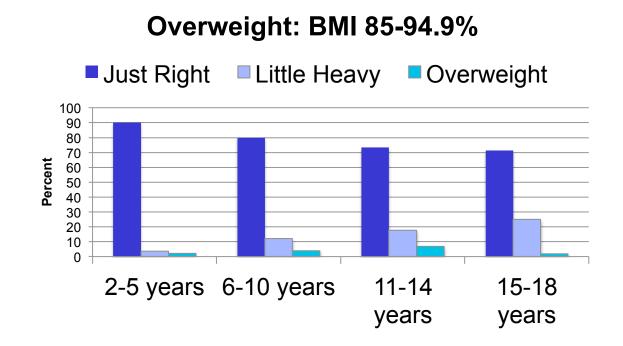


Parental perceptions of OW/OB

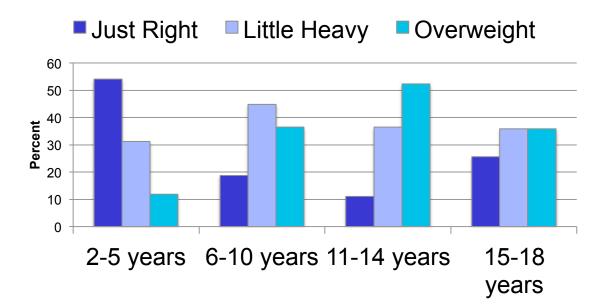
- Westside Alliance for Youth Project
- 17 item multiple choice parent survey
 - Developed, tested, transposed into WCCHC EMR
 - Administered to parents/teen seen for all well-child visits

12 month period 2010-2011

- 2,143 parents completed survey
- Boys 53%, Girls 47%
- Parental perception of child's body size
 - -My child's body size is...
 - Underweight, Just right, A little heavy,
 Overweight



Obese 2: BMI 98-99.9%



QI Measures WCCHC – Children 2 to 17 years

- At least 80% of all children ages 2-17 years with a BMI > 85th% (overweight) will have healthy weight (nutrition and physical activity) counseling documented in their medical record within the past year.
- We have shown significant improvement with this measure over the past year, from 16% last year to 64% this year



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UH DHHS Awards Wellness and Prevention Grants to 44 Communities

VISIT NEWS



NPAC Healthcare Taskforce

- Chair: May Okihiro, MD
- Members
 - -Physicians
 - -State of Hawaii DHS Medicaid/Quest

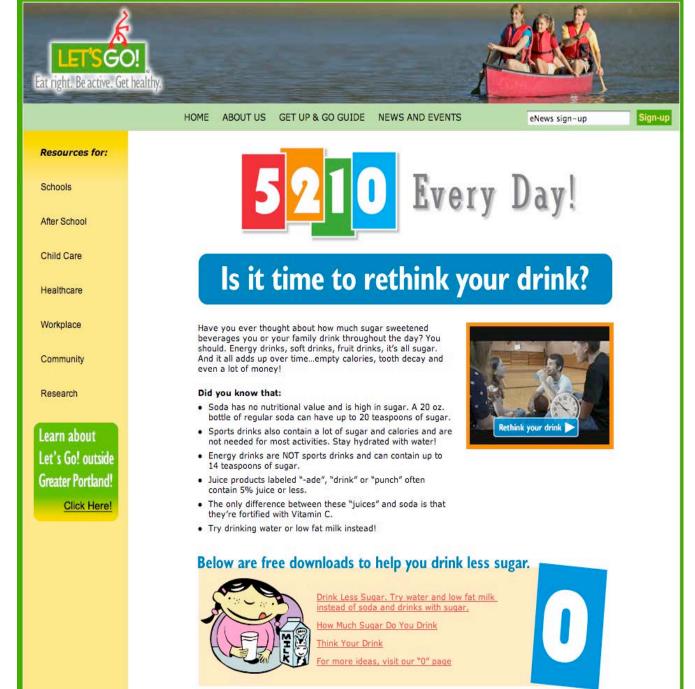
COR

- -HMSA
- -Alohacare
- -Hawaii Dept of Health
- -Kapiolani Medical Center
- –National Kidney Foundation
- -American Cancer Society

NPAC Healthcare Taskforce -Strategies

In an effort to change the **social norm**, promote and encourage *consistent messaging* by all:





http://www.letsgo.org/resources/MYOC.php?



LET'S GO!

- 5 fruits, *roots* and veggies
- 2 hours or less of screen time
- 1 hour or more of physical activity
- O No sugary beverages every day



Goal

- The goal of the Hawaii 5210 Initiative is to prevent childhood obesity in Hawaii
 - through coordinated, collaborative, locally relevant health education campaign
 - that promotes a penetrating consistent message of healthy lifestyles through community partnerships in order to optimize community awareness and action.



Strategy: Pediatric Health Care Providers

- Initial Focus: Physicians and other pediatric providers, a trusted source of health and wellness information
- Objective 2: To develop and disseminate a core set of clinical tools that will assist providers to effectively and easily counsel parents about healthy lifestyles and their child's growth

Clinical Tools and Educational Materials

- "Wellness Survey"
 - Healthy Lifestyle Screening Survey
 - Use at every Well Child Visit or when BMI is assessed
- BMI assessment and counseling tool

 Educate parents about child's growth
- 5210 Educational Sheet "Fact Sheet"



UNDER 10 YEARS

Healthy Lifestyle Screening



We are interested in providing the best care to our patients. This includes discussing ways to prevent future disease through healthy living. While you are waiting, please take a few minutes to answer the following questions. We encourage you to discuss the questions with your child. We will review your answers during your child's visit today.

Has anyone in your family ever been diagnosed with:

Diabetes / Gestational Diabetes			No	Yes	Who?				
High Blood Pressure				Yes	Who?	Who?			
High Cholesterol or Lipids No					Who?				
Heart Disease (Heart attack & Stroke)			No	Yes	Who?				
Overweight			No	Yes	Who?				
	ervings (1 servin) s your child eat?	g = 1/2 cup) per da		0-1 Servings	2-3 Servings	4-5 Servings	5+ Servings		
	many hours per (omputer games?	lay does your chi	movies,	4+ Hours	3-4 Hours	1-2 Hours	< 1 Hour		
	r at least 60 min	your child physic utes? (walking, r			0-1 _{Days}	2-3 _{Days}	4-5 _{Days}	6-7 _{Days}	
following: juic		per day does you rinks, energy drir			0-1 Times	2-3 Times	4-5 Times	6-7 Times	
How many the fast food or res 0-1 Times		loes your child ea 4-5 Times	t take out food, 5+ Times		you ever worri money to buy m Sometin	ore?		ore you get Never	
How many times per week does your child eat food outside the home/school? 6-7 Times 4-5 Times 2-3 Times 0-1 Times					How worried are you about your child's health? Very Worried Somewhat Worried Not at all Worried				
How many days per week does your family eat dinner together at the table? 0-1 Times 2-3 Times 4-5 Times 6-7 Times					How worried Somewhat Worried Not at all Worried Very Worried Somewhat Worried Not at all Worried Is now a good time to work on family eating and activity habits' Definitely Yes Maybe No				
How many cups of milk does your child drink per day?					Definitely Yes Maybe No On school nights, my child usually goes to sleep about:				
How many so 1 Scoops	coops of rice doe 2 Scoops	s your child eat a' 3 Scoops	t dinner? 4+ Scoops	On sc	hool days, my ch	uild usually wa	ikes up about:		

Simple Steps for a Healthy Ohana



EAT HEALTHY

5 FRUITS, ROOTS & VEGETABLES

Fruits, roots and vegetables, including root vegetables such as taro (poi) and sweet potato, are packed with nutrients. To get the amount recommended, most of us need to increase the amount of fruits, roots and veggies we currently eat.

WATCH LESS

2 HOURS OF SCREEN TIME

Two hours or less of computer, video and TV screen time every day. Increased screen time has been linked to lower reading scores, behavioral problems and unhealthy weight.

PLAY MORE

1 HOUR OF PHYSICAL PLAY

Activity that makes your heart pump faster and your body breathe harder make you strong, helps you feel good and think clearly. Kids in active families are more likely to be active adults.

CUT DOWN

O SUGARY DRINKS

Sugary drinks such as soda, sweetened tea, sports drinks, fruit punch and other fruit-flavored drinks have little health benefit. Sweetened beverages add empty calories, about 150 calories and 9 teaspoons of sugar per 12 oz. can of soda.

For more information please contact us at **www.hawaii5210.com**

the second contract of the loss

HEALTHY TIPS •

- Be a role model Include at least one fruit, root or vegetable at every meal and snack.
- When possible, avoid frying try steaming, baking, stir-frying.
- Try-A-Bite rule Offer new fruits, roots and veggies and encourage everyone in the family to try a few bites each time. It can take 7 to 10 tries to like a new food.

. HEALTHY TIPS . -

- Encourage your whole family to decrease screen time to 2 hours or less each day. Keep the TV and computers in a
- central location and out of your child's bedroom.
- Enjoy your family turn off the TV when eating and talk about the day.

- • HEALTHY TIPS • -

- Take gradual steps to increase your physical activity level.
- Do short amounts of activity several times a day until they add up to 60 or more minutes each day.
- Physical activity should be fun swimming, surfing, paddling, walking, running, dancing, gardening and yes, even vacuuming!

. HEALTHY TIPS .

- Encourage your family to love water. Serve it. Choose it. If it's there, people will drink it. And remember water has zero calories.
- Be wary of commercials. Juice products labeled "-ade," "drink" or punch" often contain mostly corn syrup sweetener and less than 5% real juice.
- Avoid bringing sodas and sports drinks home. If it's there, the kids will drink it.

Don't Buy It! Get Media Smart

Media have a tremendous influence on family life. It's hard to imagine life without these media, and it's important to consider the messages they send.

Learn more at pbskids.org/dontbuyit

Media Smart Youth: Eat, Think and Be Active

Media smart is an interactive after school education program for young people.

Learn more nichd.nih.gov/msy



~



www.Hawaii5210.com





www.Hawaii5210.com

Power of Breakfast

- Adults who eat breakfast..
 - Lower rates of Type 2 diabetes and are less likely to develop heart failure over their lifetime
 - Better mental performance
 - More successful in attempts to lose weight
- Kids who eat breakfast...
 - Have healthier weight
 - Improved school attendance
 - Have more focus and energy
 - Do better on standardized tests

Have improved classroom behavior





Sleep

- It's important! It Optimizes...
 - Learning
 - Test taking
 - Athletic function
 - Mood
 - Immune system
 - Growth
 - Weight management
- National Sleep Foundation Rec'd Hours/Night
 - 3-5 years: 11-13 hours/night
 - 5-12 years: 10-11 hours
 - Adolescents: 8.5-9.5 hours
 - Adults: 7-9 hours















Dissemination of Materials to Pediatric Providers

- Dissemination of Materials to CHC
 - Hawaii Primary Care Association
- Health Plans
 - HMSA
 - UHA
 - Alohacare and other Quest Plans
- Kaiser Permanente Hawaii
- Hawaii 5210 Let's Go and HICORE website

 Online CME
 WAWAY

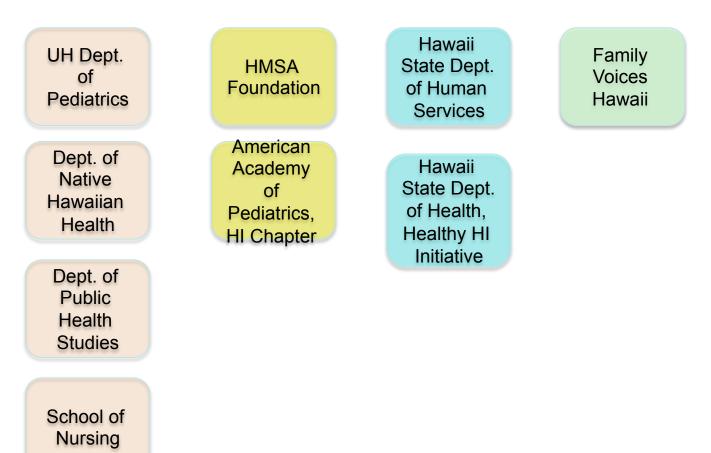


Objective 3:

 Disseminate the Message by Maximizing Partnerships



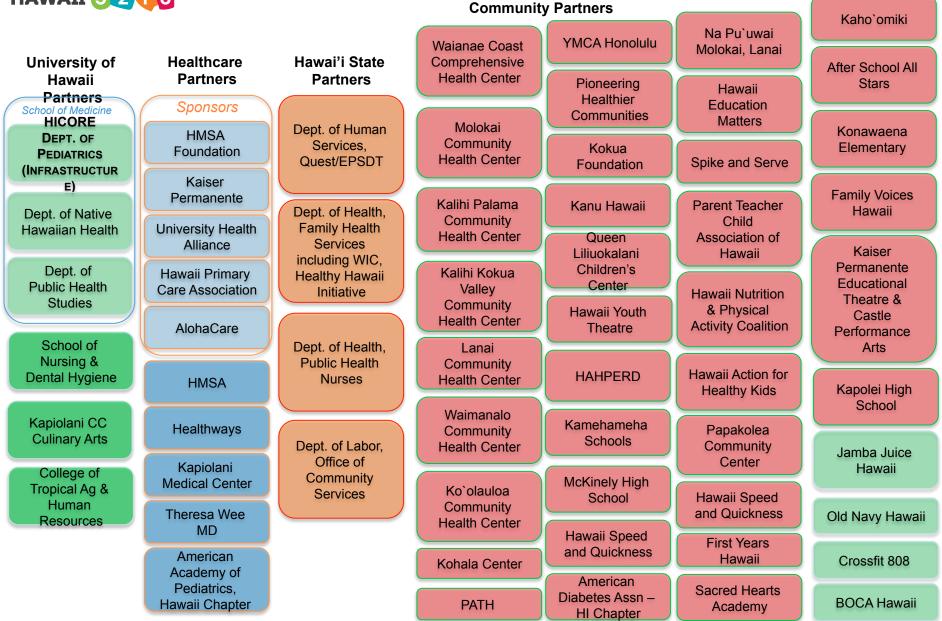
HICORE Network 2009







2012 Initiative Network of Partners





LEARN MORE

LEARN MORE

LEARN MORE

LEARN MORE



Garden Tacos

Delicious veggie tacos! Recipe by Chef Carol Nardello (Serves 10)

Monkey Fruit by Chef Carol Nardello



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Kaho'omiki and the A+ Afterschool Fun 5

Posted April 15, 2011 | Categories: Schools, Program



Recent Posts

- Food Flash Mob! | Jamie Oliver's Food Revolution
- · Beyonce, Michelle Obama and a cool flash work out!
- Farmer's Markets in Hawaii
- Kaho'omiki and the A+ Afterschool Fun 5 Program
- Monkey Fruit
- Garden Tacos
- Breast-Feeding May Cut Obesity Risk in Kids of Diabetic Moms
- · Poor Diet Linked to Early Signs of Heart Risks in Obese Kids
- Alliance for a Healthier Generation's Healthy Schools Program Now Reaches More Than 10,000 Schools
- New Report Highlights Changes Needed to Support Healthy Eating and Physical Activity in **U.S. Elementary Schools**

Categories

The Fit Factory at Momilani Elementary School "Good In and Great Out!"

Posted April 15, 2011 | Categories: Schools, Program

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HEAT AL CHA DIN 5465

The Momilani Fit Factory is a voluntary fitness club at the Momilani Elementary School in Pearl City lead by coach and 3rd grade teacher Mr. Masaru Uchino and 4th grade teacher Mrs. Dawn Kanoho. The club meets twice a







Konawaena Elementary 5-2-1-0 Pilot Project It's a Lifestyle!



Hanalei Elementary, Kauai





Ka`awa Elementary

Messaging at work... 2012 Hawaii 5210 Keiki Run





- February 18, 2012
- 1,450 kids
- \$28,000 raised for School Wellness Programs



Hawaii 5210 Let's Go! Song and Flash Mob Dance







Local Teacher Wins UnitedHealth HEROES Grant of \$1000

Posted April 9, 2012 | Categories: Schools

Early this February, home economics teacher Suzanne Nozaki of Pahoa High & Intermediate School received a \$1,000 UnitedHealth HEROES Grant from Youth Service America (YSA) and UnitedHealth Group for her Eat Your Lawn program.

UnitedHealth HEROES grants support youth-led service-learning initiatives addressing childhood obesity, healthful food choices and active lifestyles.

One of 282 grant recipients nationwide, Nozaki's program includes activities which help youngsters to improve their food choices, as well



🖶 🚮 ဲ 🖸 🛛 Recent Posts

- Familiarity With Television F Food Ads Linked to Obesity
- Sacred Hearts Academy Wellness Program - 5-2-1-0 Go!
- The Winners of the Jamba H Eat Healthy Coloring Contest announced!
- Parent Acadmemy Worksho starting May 2nd
- Hawaii Fruit Smoothies
- Power Breakfast! Puka Egg (Bird's Nest) Toast with Haw Salsa
- Rachael Ray's Yum-o! Healt School Meal Contest
- 2nd Annual Honolulu 5K For - Sunday, April 29

Sacred Hearts Academy Wellness Program - 5-2-1-0 Let's Go!

Posted April 30, 2012 | Categories: Schools, Family

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 Sunday, April 29
- Michelle Obama on 'Biggest Loser' to Fight Childhood Obesity
- Local Teacher Wins UnitedHealth HEROES Grant of \$1000

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Late March, the Sacred Hearts Academy students experienced an energetic launch to the school's new wellness program – 5-2-1-0 Let's Go!

At Kuhio, Wellness Works!

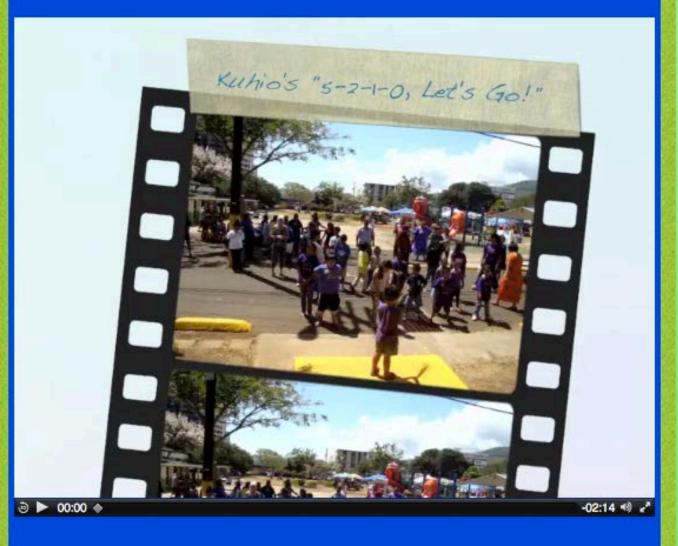
Welcome Principal's Message Dashboard News Classrooms Specialty Classes Links Parents Wellness Works! Super Star Savings 2010-11 5th Grade Academy Student Council Positive Action Cafeteria Menu Before/After School Activities Community Partnerships Kuhio's Photo Albums About us

This page may take a minute or longer to fully load. Thanks for your patience.



"5-2-1-0, Let's Go!" dance performed at Kuhio's Wellness Fair 2012

Learn more at http://www.hawaii5210.com/2/about





Go!Kit



Break for Breakfast

Take a Few Minutes to Fuel Up



SIMPLE



· Eat a balanced breakfast.

 Include whole-grains (oatmeal, whole-wheat bread), protein (nut butters, milk, eggs, yogurt, lean breakfast meat).

Add fresh fruits like papaya or banana.

Keep it Simple

SAVE TIME



Brown Bag Your Breakfast

Pack breakfast and lunch with sandwiches and fruit.
 Eat breakfast at school. School breakfasts are inexpensive, nutritious and yummy!

EAT ON THE GO



Choose Healthy Fast Foods

Breakfast at school is a quick way to start the morning.
 If you stop at a fast food restaurant, order a small size or
share a larger size. Avoid fried and sugary foods.

EAT IN THE MORNING



Snack Mid-Morning

Eat in the first few hours of your day.
 Pack a few finger foods to snack on for a boost before lunch.

More Information on Healthy Breakfast at Hawaii5210.org.

Skipping Breakfast?

National experts agree that eating breakfast is better than skipping it.

Fuel for School Eating breakfast leads to sharper focus, better memory, higher

grades and improves mood!

Helps Keep a Healthy

Weight Eating breakfast provides even energy throughout the day.

Cereal Again? Serve

other breakfast choices too! Foods like chicken, rice, and noodles. Or try a new recipe!

How Much Sleep is Enough?

Sleep helps children stay healthier and do well in school. Rested children will be ready to eat breakfast before school.

Preschoolers (April 2-5) 11 - 13 Hours

School-Age (1945-12) 11 - 13 Hours

Teens 8.5 – 9.5 Hours



W HAWAII5210.ORG

	Breakfast & Sleep Journal										
First Name:		т	eacher or R	oom:D	_Date Started:						
Day I went to bed at:		I woke I ate up at: breakfast :		If yes, what did you eat? (draw or write what you ate)	How did you feel when school started? (Circle 1)						
Ex.	7:30PM	6:00AM	Yes No	1 scrambled egg, 2 strawberries, 1 glass of milk							
1			Yes No		223						
2			Yes No		223						
3			Yes No		22						
4			Yes No		223						
5			Yes No		223						
5	1	1	Yes No	'							

Healthy families, Healthy Hawaii



This work was supported by:

•NIH, National Institute for Minority Health and Health Disparities Grant No:P20MD000173

HMSA Foundation

•Kaiser Permanente Community Benefits Program