

Active Living Research

Using Evidence to Prevent Childhood Obesity and Create Active Communities

Panel Presentation: Integrating Research, Policy and Practice into Play

- Jack Kardys, Director, Miami-Dade County Parks, Recreation and Open Spaces
- Maria I. Nardi, Chief, Planning and Research Division, Miami-Dade County Parks, Recreation & Open Spaces
- Nisha D. Botchwey, PhD, MCRP, MPH, Associate Professor, School of City and Regional Planning, Georgia Institute of Technology, College of Architecture
- Jay Maddock, Ph.D., FAAHB, Professor & Director, Office of Public Health Studies, University of Hawaii at Manoa

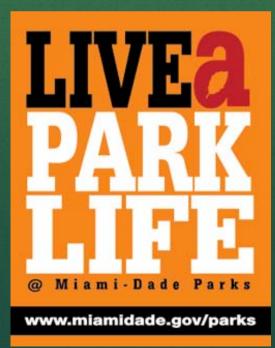




Miami-Dade County Parks, Recreation and Open Spaces

VISION

Connecting People and Parks for Life!



Objectives

- How the implementation of community based, planning approach and an evidence based program model can have a positive impact on the health and wellness of a community
- Key components of a wellness program model that is fun and offers results
- Key steps that must be taken with existing staff and supporting material to implement an evidence-based health and wellness program for life

About Miami-Dade County Parks, Recreation and Open Spaces

- Nationally accredited, a three-time winner of the NRPA National Gold Medal Award and winner of the 2009 Florida Governor's Sterling Award for excellence in management and operations
- Serve 2.5 million residents and 10 million visitors annually
- Over 2,000 square miles with 35 municipalities within the County
- Serve 10,000 children in out-of-school and summer programs and 25,000 children in organized youth leagues annually
- 260 parks & 12,848 acres of land including:
- After school, sports, summer camp programs
- Educational nature centers and nature preserves
- Beaches, marinas, pools, golf courses, gun range
- Zoo Miami
- Deering Estate at Cutler
- Arts and culture programs and events
- And much more

Open Space Master Plan

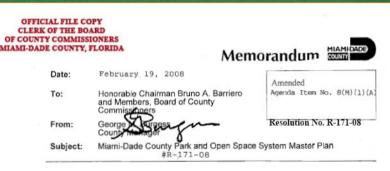


Creating a 50 Year, Unifying Vision for a Livable, Sustainable Miami-Dade County "through the Parks Window"

The Public Realm: Great Parks Great Public Spaces Great Natural and Cultural Areas Great Greenways and Blueways Great Streets

Open Space Master Plan: Policies

- On February 19, 2008, Board of County Commissioners approved the Park and Open Space System Master Plan (OSMP)
- Determined it to be an essential roadmap for developing a more sustainable, livable community by using a comprehensive and coordinated park system as its engine
- In 2009 the OSMP was incorporated into the CDMP – ROSE element. Its goals and principles guide public and private development



Recommendation

It is recommended that the Board of County Commissioners (BCC) adopt the attached resolution which approves the Miami-Dade County Park and Open Space System Master Plan, endorses the principles, goals and vision of the plan and directs the Mayor or his designee to develop an implementation strategy and action plan that will ensure that these principles, goals and vision are fully embedded in the County's strategic plan, incorporated into the goals and policies of effecting County departments, and communicated to all public agencies, including public schools, other municipalities, state and federal agencies, no later than twelve months after the adoption of this resolution.

The Park and Open Space System Master Plan is a Countywide plan.

Fiscal Impact/Funding Source

The plan is not a capital development plan, but rather a vision document that articulates goals and policies for park and public realm development in the future.

Track Record/ Monitor

MDPR will have the responsibility for coordinating future efforts to implement the plan. Those efforts will involve other County departments, including Planning and Zoning, Public Works, Transit, DERM, GSA, Libraries, and Cultural Affairs, and state and federal agencies involved in public realm development.

Background

The Park and Open Space System Master Plan is a broad policy framework and vision document that will guide the development and stewardship of parks and conservation open space into the 21st century. It envisions a system that connects communities through parks, public spaces, natural and cultural areas, greenways, water trails and streets. That system will provide a framework for a more livable and sustainable South Florida. The goal of the Park and Open Space System Master Plan is to ensure the development of a great park system comprised of the public realm that improves the overall quality of life for all our residents and visitors.

Achieving Health Equity

Key Finding: Community based interventions could reduce disease levels

American's Plan for Health & Wellness



National Prevention Strategy

Communities Putting Prevention To Work in Miami-Dade County

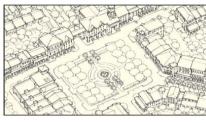


- Grant: State received \$14 million and MDC Parks Department received \$1 million
- Purpose: Create healthier communities through sustainable, proven, population-based approaches
- Focus: Policy, Systems and Environmental Changes to combat obesity
 - Increasing access to healthy foods
 - Increasing opportunities for physical activity
- Making the places where people live, learn, work and play healthier
- Transforming health through coalitions and partnerships across sectors
 - Consortium for a Healthier Miami-Dade

Goal 9: Active Transportation and Recreation

Miami-Dade County Parks and Recreation

- 1. Urban Design Manual I Private Development)
- 2. Urban Design Manual II (Civic Development)
- 3. Vending Machine Policy
- 4. Park Structure and Landscape Pattern Book
- 5. Park Access and Equity Report
- 6. Outdoor Gyms
- 7. Worksite Wellness Program



Urban Design Manual Volume I - Private Development DRAFT - 04/29/11



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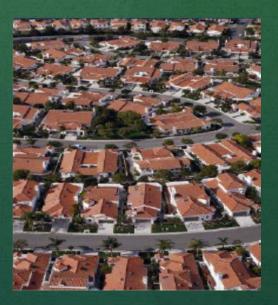




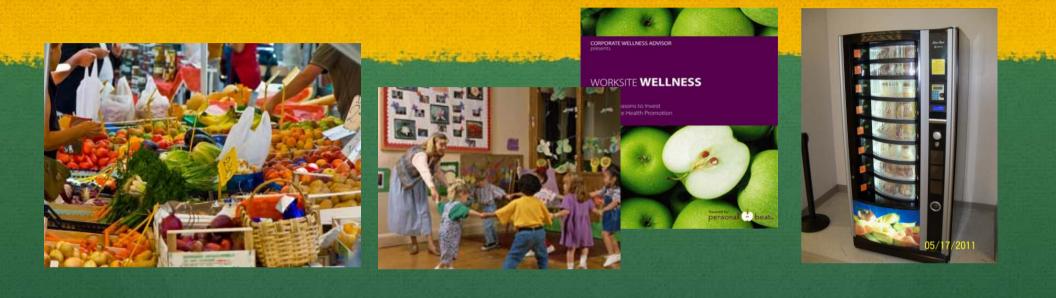








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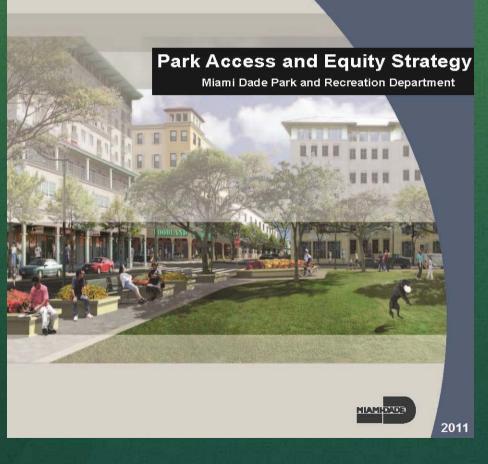








Access and Equity Analysis



 Based on OSMP Access Criteria

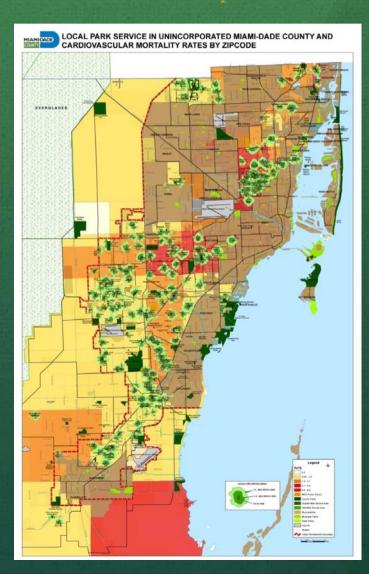
 Seeks to promote physical activity through recreation and active transportation

Research & Analysis

Demographics

Health & Safety Analysis

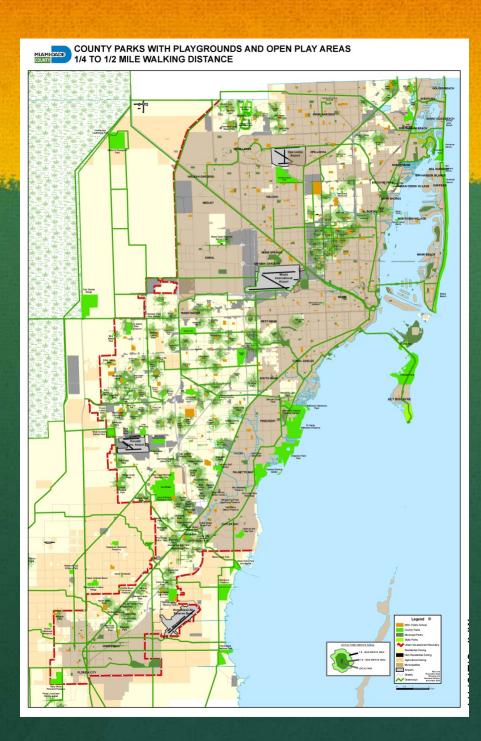
Walkability and Bikeability



Increase Access to Recreation

	EQUITY ACCESS CRITERIA	
REGIONAL		
RESOURCE-BASED		
ACTIVITY	ACCESS	ACCESS MEASUREMENT
NATURAL/CULTURAL RESOURCE-BASED RECREATION	All residents shall have opportunities for canceing, kayaking, motor boating, fishing, observing wildlife, and experience a natural area.	Access to geographically dependent natural and cultural resources.
POPULATION-BASED		
ACTIVITY	ACCESS	ACCESS MEASUREMENT
FOOTBALL	All residents should be able to access competition level football facilities.	2 - 3 MILES
SOCCER	All residents should be able to access competition level soccer facilities.	2 - 3 MILES
SOFTBALL/ YOUTH BASEBALL	All residents should be able to access competition level softball and youth baseball facilities,	2 - 3 MILES
TENNIS	All residents should be able to access competition level tennis facilities.	2 - 3 MILES
AQUATICS	All residents should be able to access aquatic facilities such as a pool or splash playground.	2 - 3 MILES
LOCAL (UMSA) AT WILL		
ACTIVITY	ACCESS	ACCESS MEASUREMENT
OPEN PLAY/ PLAYGROUNDS	All residents, regardless of location, should be able to access open play areas, tot lots and playgrounds.	1/4 - 1/2 MILE
FOOTBALL	All residents should be able to access football fields.	1/4 - 1/2 MILE
SOCCER	All residents should be able to access soccer fields.	1/4 - 1/2 MILE
SOFTBALL/ YOUTH BASEBALL	All residents should be able to access softball and youth baseball fields.	1/4 - 1/2 MILE
TENNIS	All residents should be able to access tennis facilities.	1/4 - 1/2 MILE
BASKETBALL	All residents should be able to access basketball facilities.	1/4 - 1/2 MILE
PROGRAMMED		
ACTIVITY	ACCESS	ACCESS MEASUREMENT
OUT OF SCHOOL/	All youth residents should be able to participate in an out of school or summer camp program.	2 - 3 MILES

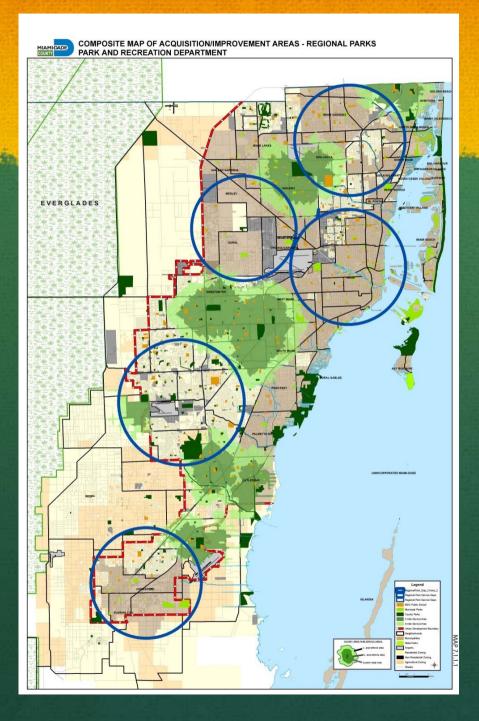
- Based on OSMP principles of livability and sustainability
- Access to Parks should not require a car – walkable and bikeable
- By Activity Type
- Divided into Local and Regional
- Promotes physical activity and more equitable access to recreation



Local Parks

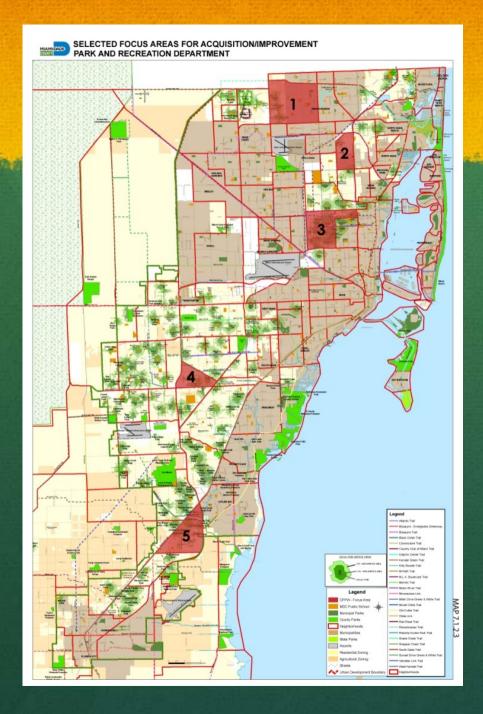
1/4 - 1/2 mile walkshed





Regional Parks

- Population-Based
- 2-3 Mile Bicycle or walking distance
- Identify Gaps in Service

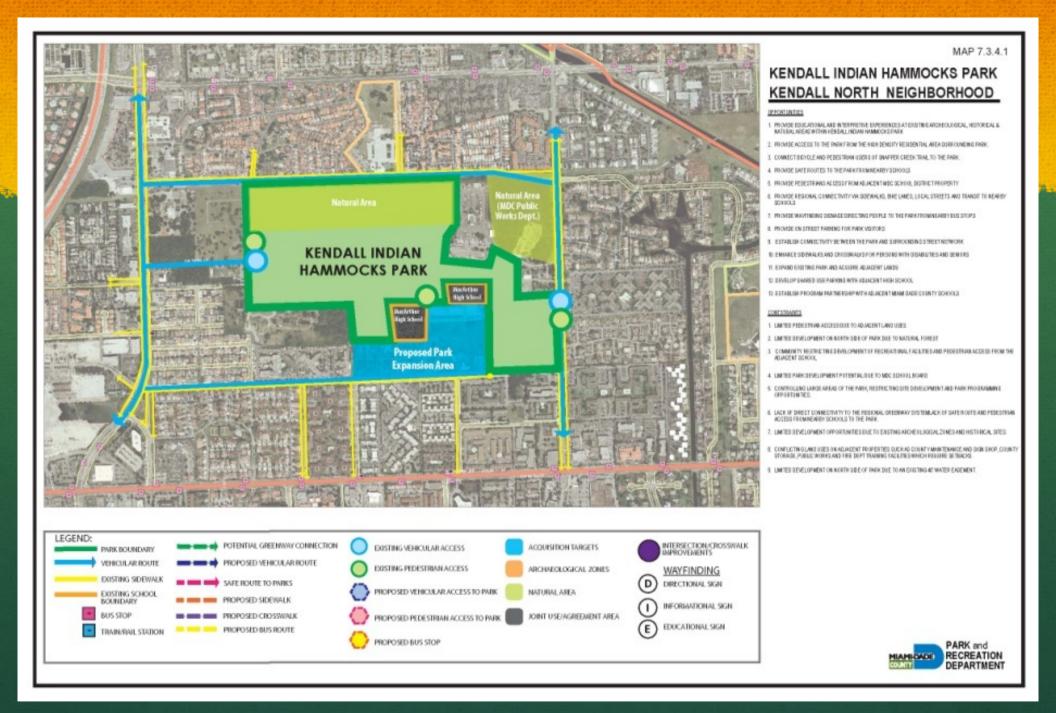


5 Focus Areas

 Areas of Health Disparity

 Areas with Gaps in Service

North/South geographic distribution



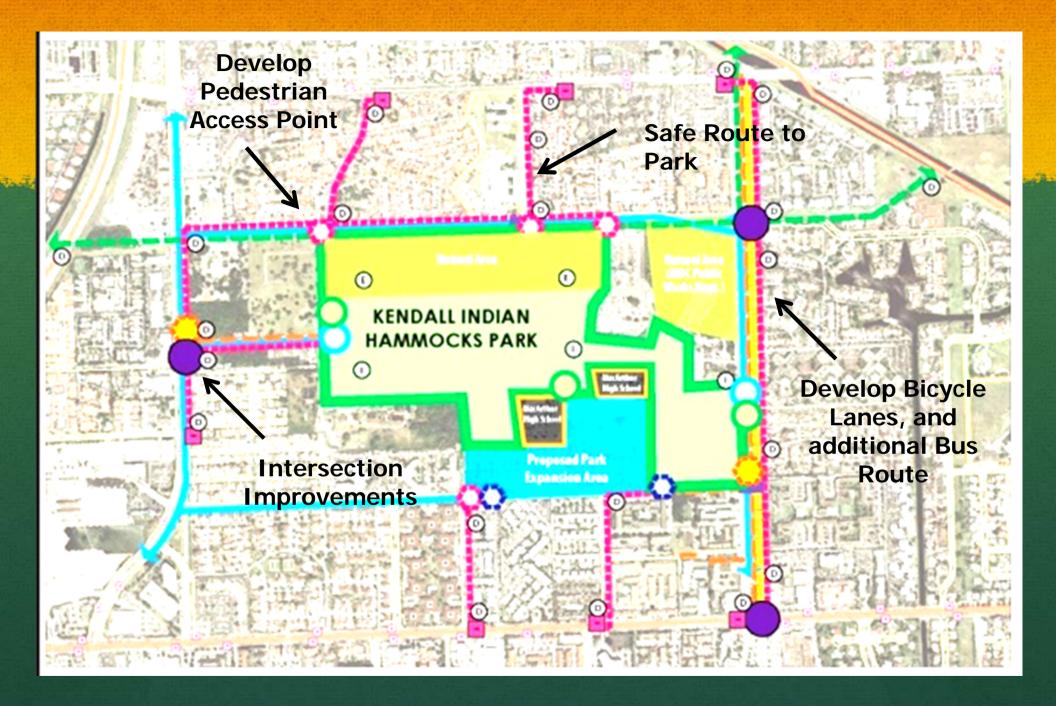


MAP 7.3.4.2 KENDALL INDIAN HAMMOCKS PARK KENDALL NORTH NEIGHBORHOOD

INTERMENTIONS / SAFE ROUTE TO PARKS / WAYFINDING

- 1. INSTALL INTERPRETIVE SIGNAGE AND EXHIBITS DETAILED THE ARCHEOLOGICAL HISTORY & NATURAL RESOURCES OF KENDALL INDIAN HAMMOCKS PARK
- UTILIZE JOINT USE AGREEMENT WITH MANI DADE COUNTY SCHOOL DISTRICT FOR USE OF 28 ACRES WITH BAREBALL AND SOCCERFIELDS, BARHETBALL COURTS, AND CONCESSION/STORAGE FACILITIES.
- DEVELOP ADDITIONAL PARK ACCESS POINTS FROM SW 70TH STREET & SW 112TH AVE TO PROVIDE ACCESS TO MORE RESIDENTS
- CONNECT TO REGIONAL AND COMMUNITY ACCESS FROM SW 107TH AVE AND THE NEARBY PLORIDA TURNPIKE
- 5. ENHANCE REGIONAL CONNECTIVITY VIA EASEMENT TO SNAPPER CREEK TRAL.
- PROVIDE ACCESS FROM ADJACENT MDC SCHOOL DISTRICT PROPERTY VIA NEW SCHOOL ACCESS ROAD, SWIEI^{TE} TERRACE & NEW SW 112^{TE} AVENUE.
- 7. DEVELOP ON STREET PARKING TO MINIMIZE NEED FOR ADDITIONAL PARKING AREAS WITHIN THE PARK.
- 8. DEVELOP FEDESTRIAN CONNECTIONS INTO PARK VIA EXISTING SIDEWALK NETWORK AROUND PARK AND FROM VARIOUS STREET ENDS THAT ABLT PARK.
- 9. DEVELOP INTERNAL BICYCLE AND WALKING PATHS WITHIN PARK.
- 10 ACQUIRE ADDITIONAL TROPICAL HARDWOOD HAMMOCK AREA NORTHEAST OF PARK, ADJACENT TO SOLID WASTE DEPT. PROPERTY.
- 11. ACQUIRE HAVEN CENTER PROPERTY
- 12.0EVELOP JOINT-USE AGREEMENT WITH MDC SCHOOL DISTRICT FOR RENOVATION OF 6YM AND STORAGE FACILITIES
- 12. DEMELOP SHARED USE PARKING WITH NEW HIGH SCHOOL FOR ON AND DFF PARK PARKING
- 14. ESTABLISH PROGRAM PARTNERSHIP WITH NDC SCHOOLS FOR AFTER SCHOOL, SUMMER CAMP AND SENIORS PROGRAMS.
- 15 RECREATIONAL FACILITIES WITHIN THE PARK THAT PROVIDE OPPORTUNITIES FOR PHYSICAL ACTIVITY, INCLUDING WALKING PATHE, PLAYOROUNDS, BASEBALL FIELDS, SOCCEP FIELDS, INGNETBALL COURTS, PICNIC SHELTERS AND A RECREATION CONTER.







Kendall Indian Hammocks Park

Increase service area thru additional pedestrian access points

Interventions will result in a 50% increase in walkable park service



Strategies



- Acquisition Strategy
 - Reduce gaps in service areas
- Maximize open space on existing publically owned land
 - Improve Access to Existing Parks
 - Joint-Use Agreements with Schools
 - Transfer of Existing County
 Properties

Policies and Design Interventions

- Increase access to existing parks
- Maximize existing parks
- Develop pedestrian access points
- Build a pedestrian bridge over canal
- Install a sidewalk
- Intersection Improvements
- Bicycle Lanes



A means to guide the provision of recreation and leisure services to advance the overall mission and vision of Miami-Dade County

- Informed and guided by the County's Strategic Plan
- Supported by the Department's Business Plan
- Parks and Open Spaces Master Plan

- Put into place a systematic and ongoing inventory, analysis and assessment process that will help the Miami-Dade County Park and Recreation Department now and in the future
- Determine the context of recreation facilities and programs county-wide
- Provide specificity in determining the effectiveness of programs and services.

"Where are we; where do we want to be and how do we get there."

Goals determined in achieving health equity through the Recreation Program Plan

- Ensure Quality Recreation Programs that are Responsive to Community Needs
- Create Healthy Communities
- Ensure Financial Sustainability for Program Delivery
- Foster Environmental and Cultural Stewardship
- Ensure the Equitable Provision of Program Opportunities

Needs Assessment

- Identify recreation and leisure interests that are favorites of residents
- Identify recreation and leisure interests that are least favorites
- Determine facility and program needs
- Obtain residents' general evaluation of various aspects of county facilities and programs

Summary Initiatives

- Strategic Plan
- Planning Initiatives
- Recreation Programming Initiatives
- Programming Partnership Initiatives
- Arts and Culture Initiatives
- Enterprise Initiatives
- Attraction Initiatives
- Training Initiatives
- Adding Disability Services/Therapeutic Recreation
- Adding Inclusive Recreation

Vision for the Future

E Fit 2 Play Program Interactive Multiple learning dimensions

Miami-Dade Parks & Radio Disney AM 990





June 6-August 5, 2005

Fit 2 Play

Fit 2 Play A Partnership for Youth Excellence

An evidence based, interactive, fun and educational wellness program for ages 6-14 which incorporates physical activity with interactive learning to develop healthy lifestyles and good citizenship

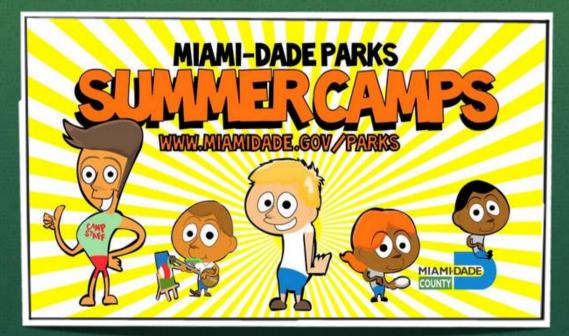


<u>Goals</u>

- Increase the physical activity of children through quality recreation activities
- Improve the health and wellness of children through a nutrition program that teaches healthy choices
- Improve school performance through quality homework assistance and citizenship opportunities
- Create opportunities for children to make friends
- Find a life sport through sports development programs

Fit 2 Play A Partnership for Youth Excellence

After School, Out-of-School and Summer Camp programs are provided to support this initiative year-round.



<u>http://www.youtube.com/watch?v=rkhxKkJ8YnU&feature=em-</u> <u>share_video_user</u>

Physical Fitness Component

- After School Program 45 minutes of Physical Activity minimum 4 times a week
- Ongoing in-service training, evaluation and instructor coaching
- 1 or 2 day training workshops
- Equipment Available for Activities
- Follow up support available





Sports, they & Botton Knorsethen for Kidel

Nutrition Education



Fit 2 Play

EmpowerME4Life is an 8-session healthy living course to equip kids ages 8-12 with new attitudes, skills and knowledge about eating better and moving more.

The Alliance's EmpowerME campaign is a by kids, for kids movement that's inspiring all kids to make healthy behavior changes and to become leaders and advocates for healthy eating and physical activity in their communities.

Personnel and Certifications

- Parks & Recreation recruited Exercise Physiologists, and Wellness & Fitness Specialists, who are designated to oversee operations at specific sites to improve implementation and professionalism of the programs.
- Fitness professionals certified by an NCCA-accredited program
- Through International Fitness Professionals Association (IFPA)
 - Wellness & Fitness Specialist
 - Youth Fitness Specialist
 - Sports Nutrition Specialist



Fit 2 Play

University of Miami Study Design

• Longitudinal cohort study to determine the effect of Fit-2-Play on preventing overweight and obesity among 5-to-13 year olds in 23 Miami-Dade County parks.

• UM faculty and staff trained MDC Parks field staff in anthropometric and clinical data collection techniques.

• Web-based data collection program. Data automatically uploaded to UM server.

• UM faculty analyze data.







Fit 2 Play

Data Collection

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Fit 2 Play

Standardized, quantifiable and measurable testing is incorporated in the Fit-2-Play program to test health, fitness, wellness and academic performance.



Pre and Post Testing at Beginning and End of School Year

Primary Outcome

Measures:

- •Anthropometric Measures (BMI, WC)
- Clinical Measures (BP)
- Physical Fitness
- Nutrition Knowledge

Anthropomorphic Results

	Baseline/Pretest Posttest (Fall 2010) (Spring 2011)		P value
	Mean	Mean	
BMI percentile	72.2	72.5	NS
BMI z score	0.84	0.85	NS
Weight z score	0.72	0.72	NS
Height	136.4	138.5	<.0001
Waist Circumference	65.0	66.0	<.0001
Hip Circumference	76.5	77.8	<.0001

Collectively these anthropometric findings show that participants are growing normally while not gaining weight abnormally

Physical Fitness Results

Test	Pretest (Fall 2010)	Posttest (Spring 2011)	Difference	P value
Sit-and-Reach	25.7	26.2	+.55	0.01
Push Ups	21.7	24.9	+3.3	<0.0001
Sit Ups	25.2	28.6	+3.8	<0.0001
400 Meter Run	260.5	201.7	-58.1	0.0003
Pacer Test	16.0	16.7	+.72	NS

Fit 2 Play

Nutrition Knowledge Results

Test Items/Variables	Pretest % Correct	Posttest % Correct	Change
being physically active is only for athletes	78%	87%	+9%
It is healthy to eat fruits and vegetables at every meal	66%	86%	+20%
Fruits and vegetables are full of nutrients and vitamins	84%	89%	+5%
It's good to exercise, an hour a day	74%	83%	+9%
Watch TV instead of exercise	76%	89%	+13%
I should limit the amount of TV	59%	81%	+22%
How does being physically active help your body	66%	87%	+21%
Identify the activity that is most physically active	88%	95%	+7%
Identify the bad drink	55%	77%	+22%

(mean change improved from 6.37 questions correct to 7.3 questions correct, P<0.0001).

Fit 2 Play



ALC: NO

RUNNING FOR HIS HEALTH: Moises Sanchez, 14, tackles the morning mile as part of the Fit-to-Play summer camp at Hammocks Community Park in West Kendall. Sanchez has lost more than 40 pounds.

'Excess weight can be a strain on your child's health'

http://www.local10.com/thats-life/health/Study-Program-helps-reduce-child-obesity/-/1717022/18496038/-/lnj4xrz/-/index.html

10HH | SUNDAY, AUGUST 19, 2012

FITNESS

Excess weight can be a strain on your child's health

MiamiHerald.com | THE MIAMI HERALD

If you go

Courthline What: A nine-m

Power ABS here: David Posnac

wish Community Ce r, \$850 South Pine

Island Rd., Davie When: 5 p.m. to 6 p.m

Cost: Free for JCC m bers and \$2 per class to

For information: Ca

Miami-Dade Park's

and an after-school pro

gtam where children

Where: At Miami-Dade ounty parks.

When: Segins Aug 2 and

s held from 2 n.m. to 6

For information: Call 305-755-7800 or visit

Atr Hanna miam

Kids Zone Kids in Training and Shapedown What: Exercise and rat

classes for childre Where: Memorial Ho

al West Fitness Cept 103 North Flamingo Rd

954-844-7125 or visit

nore ir he i the om-

Last

in how tri

Cost: \$25-\$35

dade.gov parks/

Fit-to-Play

ny diet," said

What: A summer

954-434-0499 ext. 100 o



United States, according to a National Health and Nutri-tion Examination Survey. The number of obese chil-The number of obese chil-fren was just as high: Be-tween 2007 and 2008, nearly percent of 2- to year-olds in the United States were obese, accord ing to a National Health and Nutrition Examination Sur-Nutrition Examination Sur-wey released in 2010. A child is considered overweight when their body mass index is at or above the 85th percentile and lower than the 95th percentile. A child is considered obese when bia or her body mass hild is considered obese when his or her body mass ndex is at or above the 95th ercentile, according to the centers for Disease Control

intion. These per tiles are age- and der-specific. t his heaviest, Moises, v 14, was about 170 ds. Chelsea, now 12 bout 140 pounds. They both around five feet ches tall.

Most of the time I would Australia of the time I would toward baggy clothes so nomenon that due new couldn't show my stom-castst 20 or 30 years ago. I was embarrassed by In Type 2 diabetes, an overweight or obset person resist ant to insulin ch. I was embarra said, pul ing her T-shirt the hormone that c r her stomach. Last summer things be-Late sommer rungs ee-of the sib-gs. They joined a summer blood sugar spikes. The bo-mp where instructors em-asized exercise, nutri-that in needs more calorier

nal eating and a healthy to function and a signal is style. At Miami-Dade sent to the brain, telling it to ty Parks, Recreation conserve calories. Open Spaces Depart- "You burn fewer calorie 's Fit-to-Play camp, and it makes it easier to gai is lost 40 pounds and more weight, which be helsea lost 35. Similar programs have Charlton said. Har programs have gupthroughout South a to reverse the rising of overweight and age blood vessels' walls, children. At the Uni-leading to kidney, eye, brain

sugar from the blood t cells. As a result, in

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RUNNING FOR HIS HEALTH: Moises Sanchez, 14, tackles the morning mile as part of the Fit-to-Play summer camp at Hammocks Community Park in West Kendali. Sanchez has lost more than 40 pounds.

And a second seco







FIT-TO-PLAY

Healthy habits start at childhood

Miami-Dade's Fit-to-Play program aims to educate kids on the benefits of physical fitness and sensible enting.

BY LIDIA DIMKOVA Springed by The Maning Westahd

State San Line (1)

To help fight the childhood obesity epidemic and instill healthy habits in youths, Miami-Dade County started Fit-to-Play, an after-school health and exer- yen't really had before." cise curriculum held at local cords.

and post-school year measurements tracking students' progress.

The results? Children and teens maintained a healthy weight, lowered their blood pressure, and increased their physical fitness and outritional knowledge, said a renearch associate profes- height. sor at the University of Mi-

2010-11 school year. The 85th percentile and those overall results for the 20th-12 who are obese are above the and 2012-13 school year are 95th percentile, not available yet.

terms of influencing the children to be physically active," she said. "This prorram is now an evidencebased program and a resource for all children in this community that is accessible, affordable and yearround - something we ha-

For the study, which focused on 250 students from To examine the program's 6 to 14, doctors measured effects, a team of University body-mass index, fat distriof Miami doctors did pre- bution, blood pressure, sure levels. physical fitness and nutritional knowledge.

"We are trying to get the big picture by taking all of these different measurements," Messiah said.

measurement generally systolic blood pressure of used to determine if a per-Dr. Sarah Messiah, who is son is obese or overweight, conducting the study and is is based on weight and

Children's body-mass inanti Department of Pediat- dex is determined by using rics. These results are based age- and sox-specific per- a blood-pressure measureon measurements taken at centiles -- those who are ment, remained unchanged the beginning and end of the overweight are above the



than fat," Mennish said. As such, doctors also administered a skinfold-measurement test that shows

the percentage of body-fat composition. Fit-to-Play also has targeted blood-pres-In general, a pre-hypertensive adult has a systulic

blood pressure, or the highor number of a blood-presstire measurement, greater than 120. Jennifer Irias, 7. Body-mass index, the started the program with a 125 - a high number even for an adult. By the end of the 2003-12 school year, that rate dropped to 305.

Her diastellic blood greasure, or the lower number of at 77, which is considered normal.

Like many other children in the program, Jennifer's physical fitness and mutritional knowledge have improved significantly.

gram, she could do one situp. Now, she can do eight. And on her nutritionalknowledge exam, she answered two more questions. correctly than she did at the

By the end of the 2080-II school year, 22 percent more children identified soda as an unhealthy drink versus water and 20 percent more said fruits and vegetables. are healthy with every meal.

we are very mutritionally illiterate," Messiah said. "But with very little time, kids learn."

For more information Fit-to-Play, coll OB-105-755-7800.

Fit-to-Play: programa accesible, económico y que funciona

LIDIA DINKOVA rales para los años escola- Es por esto que los mé-

ara avudar a combaludables en los jovenes, el ce mejor", dice. Condado de Miami-Dade en los parques locales.

de médicos de la Universi-2010-2011 para dar segui- Messish. miento al progreso de los estudiantes.

baja la presión sanguinea en peso y altura. y aumenta la eficiencia fitria de la Universidad de corporal más alto. Miami. El estudio se enporo los resultados gene- Messiah.

NATHAN TURNER, izq. y Tyreque Ford; ambos de 10

años, participan en el programa Fit-to-Play.

comenzó el programa Fit- enfoca en 250 estudiantes controlar los niveles de la to-Play (En forma para ju- entre las edades de 6 a 14 presión sanguinea. gar), un programa extra- años, los médicos miden el curricular de salud y ejer- indice de masa corporal, ciclos que se lleva # cabo la distribución de la grasa, la presión sanguines, la Para conocer el impacto condición física y el conodel programa, un equipo cimiento sobre nutrición

Tratamos de tener el dad de Miami estableció cuadro general teniendo-

El indice de mass corporal, medida que se utiliza de edad, comenzó el pro-(Los resultados? Los ni- generalmente para deternos y adolescentes man- minar si una persona està

sica y el conticimiento nu- dice de masa corporal pue- 3011-2012, su presión austricional, dice la Dra. Sa- den inducir a error. Los nirah Meuniah, quien dirige nos más atléticos, que han el Departamento de Pedia- peso y un indice de masa

"Kl mūsculo pesa mās cuentra en su tercer año, que la grasa", dice-

Especial/The Miami Haraid Tes 2011-2012 y 2012-2013 dicos también adminisaún no están disponibles. tran la prueha de medi-"En términos de influir ción del pliegue cutineo tir la epidemia de a los niños para estar físi- que muestra la composiobesidad infantil e camente activos, mientras ción del por ciento de grainculcar hábitos sa- más temprano se comien- sa corporal. Fit-to-Play ha sido parti-

Para este estudio, que se cularmente exitoso en

ver la cantidad de niños Messinh.

presión sanguines sistóčimedidas previas y poste- todos estos factores en ca, o el número más alio de riores al año escolar cuenta", menciona la medida de presión sanguinea, mayor de 120.

Jennifer Irias, de 7 años grams con una presión sanguines sistólica de 125. un adulto, dice Messiah.

La presión sanguinea el estudio y es investigado- desarrollado músculos, diastólica, o el número ra asociada y profesora en puèden alcanzar un mayor menor de la medida de

"Me sorprendiò mucho que son prehipertensos e hipertensos", comenta En general, un adulto prehipertenso tiene una

thenen iin peso saludable, obesa o sobrepeso, se basa, un número aun mayor que Pero las medidas del in- Al terminar el año escolar

guinea baió a 505.

normal

presión sanguines, fue la misma deade el comienzo hasta el final del año escolar. La presión samplines diantólica de 77 era

A principio del año escolar Jennifer podia hacer anto uno sentatilla, abora es capaz de haper 8. En el examen de conocimiento nutricional, tave dos contestaciones correctas adicionales al examen que tumó al principio del año escolar. El susmen incluye preguntas tales como: 'LEs saludable comer frutas y vegetales con cada comi-

da?' y 'iEs saludable ver

television? Al finalizar el año escolar 2010-2011, #1 22 por ciento de los niños identificaba el refresco como una bebida no saludable versus el agua y mencionaban que debian limitar el tiempo frente al televisor. Veinte por ciento más DAMES BOCK/ESPECIAL (THE MARE HERBED) niños dijeron que las frutas y los vegetales son ashodables con cada comida.

BANES BOCK/YOS THE HEARS HERALD

LIFE LESSONS: Nathan Turner, left, and Tyregue Ford, both 10, play touch football at the program.

When she started the pro-

start of the school year.

"As a nation, as a whole,

2012 P.L.A.Y. MLB Initiative











'Fitness Made Fun' Fit 2 Play Press Release

FITNESS MADE FUN

A NEW AFTER-SCHOOL PROGRAM AT MIAMI-DADE PARKS GETS KIDS MOVING WITH FIELD-DAY TYPE GAMES, PLUS HOMEWORK HELP AND LESSONS ON HEALTHY EATING -AND FEES ARE MINIMAL, IF NOT AT ALL

SV KARDIG CHAVEFORD

n the busicetball court at Leioure Lake Park in Homestead, Fatima

Beltran stands behind the white line, waiting to charge the searge cone 15 mature in front of her. As soon as the music starts, she sprints down the orart. Back-and-forth

she runs — six times without stopping. As she rounds the cone for the sixth time, her counselor shouts for her to get drink of water. Seval shining on be

face. Fatima yours benelf a cup, burely ntaining her excitement. "This is the best part," said Patima, 8,

a third-grader at Lebrure City Elemen-tary in Homotund, "Howe to run and I can do a lot of that here after Lget out of achood." Sparred on by first lady Michelle

Obama's "Let's Move" campaign, Miami-Dade's Parks and Recreation. Department is leading the initiative locally with Fit to Play: Health, Wellness and Obmity Prevention Dat-oc-School peogram.

The filmest program, in its insugrars' year, is dabbed SPARE, or Sports, Pay and Active Respartion for Kida. It involves students from 6 to 14. After school, they head to their neighborhood park, where they play tag, kickhall, and running games. In addition, they get homework help and are taught about

"We were one of the first programs in the neighborhood to promote health isr living," and Marvin Burroughs, " Mortin Lather King le. Park

in Liberty City, which has 45 children participating. "Eds have started eating better and looing weight at home because of what we are teaching them after achool."

Ja Karrie Danieb, 9, a fourth-grader at Minkash Elementary envolled in the program, attests to that, "I wolly lice coming have after

school. They teach us about the food pyramid and give us healthy eracks. We also get to play a lot of sports like kick-ball. It's my favorite." More than 1,000 students have regis-

tered. Fees are determined on a family's income - many of the children attend for free due to funding from The Children's Trust.

"Our program is of no cost to the hick and there families because of The Children's Trust's contributions," said Daryl Miller, marager at Leisure Lake Park, which has 68 children enrolled. "There is a waiting list of families who want to participate in Fit-to-Play right now, but we hope to be able to allow more of them in as time goes by. This kind of initiative really does great

things for our community." Miami-Dade Parks also is working with the University of Miami Ullealth System. The children will record their fitness improvements, which will be measured by medical students through

rics.

and abasity prevention initiatives

out the year. Being a part of this program really allows our third-year medical students to see the importance of community outranch," and Dr. Donna Wiener.

maintant professor of clinical podiat



POTO OF ALMOND ADVECTOR FIRM BRIDE

REPING BOOKS AND NINGS IN SHAPE: From left, Kernya Green, TalKeria Tanner, Adman Barron, and Xavder Williams, all 6, wolk in a line before playing a game of Bag-tag at Martin Luther King Jr. Memorial Park last week as they participate in Niemi-Date Park's Fit-to-Play Health, Wellness and Obesity Prevention Dut-of-School program. At right, Erika Abreu left, and Gebriela Carbone, both 13, help each other with their language arts and math homework at Continental Park in Kendall.

Fit to play: How to sign up

TO PLAY

"Aur dealby The Children's Task, the alter is had program is fee for many statients, depending upon the family is income. Althis for call directly fourier a way convergenced grants therein \$5 is weak. Other parts charge a reaction of \$555 a weak. For more information, go to www.mamik.co.gos/paris/into-attanchoulasp. or cal 205-755-7880.

"We have our med students make "If we can get hide to understand the importance of a headby lifetyle now, future generations will benefit from h." UHs alth oversees the beside, wallnam these besoelets with the kide that change color once they get in the sun," and Wis-ner, "When the kids see the beads change from white to a different shade, they know they need to put sunscreen on It's

interactive projects like this that make them more sware of what's going on." Pit-to-Play also requires the students to dedicate one to two hours to homework and reading comprohenden. "When we get here after school, the counselors of with us and help us with the things we don't understand," still Gabriella Carbone, 13, an eighth-grader of Kenwood K-8 Center who participates at Continental Park in Kendall. They have a lot of patience and

explain everything really well. I wouldn't got the same attention other school at



PROBLEM SOLVED: Michael Salvatore, 9, gets some math homowork help from Miami-Dade Park service aide Luis





ting well. KEEPING COUNT: Illiancia Zavala, 8, runs around comes to see how many lacs she can complete at Leisure Lake Park in Homestead during the Fit-to-Play, Health, Wellness and

Outdoor Fitness Zones®



Partnership between the Trust for Public Land and Miami Dade Parks

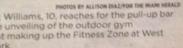
Provide the opportunity for community members to increase their daily physically activity, for free within their own neighborhoods.

Designed for all fitness levels, cardiovascular, strength training, endurance and flexibility improvements can be made by individuals who take advantage of this valuable equipment. MI HERALD | MiamiHerald.com

SUNDAY, JULY 22, 2012

EXERCISE IN THE PARK







Anaya Miller, 11, tries out the elliptical bike during the unveiling ceremony of the Fitness Zo Perrine Park. The gym equipment is free and open to the public for use. The Trust for Public partnered with the Miami-Dade County's Parks, Recreation and Open Spaces Department fitness zone.



nent at West Perrine Park

Miami Herald Press Release Summer 2012

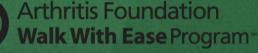
Aging Adults Programming

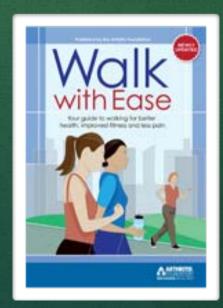
- Parks Prescription for Health
 Fitness Zones[®]
- Walk for Life: Walking Program
- Aging Friendly Workshops
- Environmental Scan
- Hiring appropriate staff, mature & active adults

Walk with Ease Walking Program

- Partnered with the Health Foundation of South Florida
- Free evidence based self-directed walking program, created by the Arthritis Foundation
- Target population: Active Adults ages 55 and older
- Six-week program, participants meeting with a trained leader and are provided with a guidebook including tips for getting fit, healthy and motivated.
- Number of participants
- 13 Park locations that offer the Walk With Ease walking program
 - 4 additional parks with marked walking trails







Additional Park Offerings for Active Adults

<u>Fitness Boot Camps:</u> created for all fitness levels, to provide a total body workout for individuals to the whole family
 More than 9 programs offered at 7 different locations





- Swimming: A great non-impact way exercise that is appealing to people of ages
- 6 locations open year round, 6 locations opened summer months only
- <u>Classes at Deering</u>: This historic site provides a mix of classes to keep participants exited about fitness
 - Classes include Pilates, Yoga and Ballroom Dancing from the Trot to the Cha Cha



Wrapping Up

- How the implementation of community based, planning approach and an evidence based program model can have a positive impact on the health and wellness of a community
- Key components of a wellness program model that is fun and offers results
- Key steps that must be taken with existing staff and supporting material to implement an evidence-based health and wellness program for life

Thank you and any questions?

Integrating Research, Policy and Practice into Play The Atlanta Case Study

Active Living Research Meeting

February 28, 2013

Nisha D. Botchwey, PhD, MCRP, MPH, Associate Professor, City and Regional Planning Center for Quality Growth and Regional Development, Georgia Institute of Technology



The Atlanta BeltLine

Health Impact Assessment of the Atlanta BeltLine (2007)

Health Benefits of the Atlanta BeltLine Eastside Trail: A Pre-Impact Assessment (2011)

Atlanta BeltLine Eastside Trail: Population Comparison Measuring Changes in Behavior Related to Health (2013)

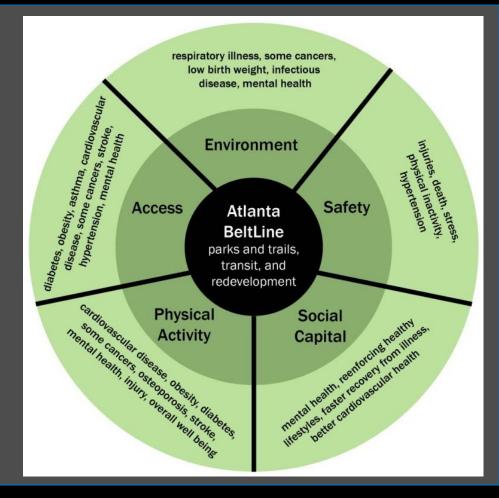
Lessons Learned

Resources

Acknowledgements

CQGRD

Health Impact Assessment (HIA) of the Atlanta BeltLine





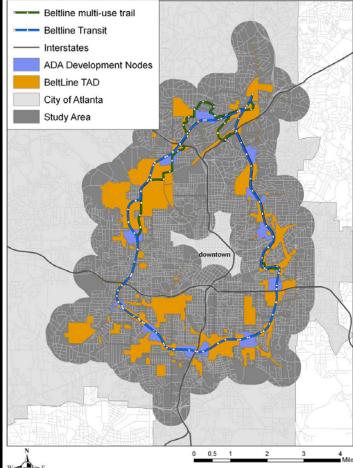
HIA was completed in 2007

The comprehensive nature of the HIA resulted in extensive baseline evidence collection and analysis

Required cooperation between city planners and public health professionals

Healthy communities and access especially for the disadvantaged and vulnerable population





Screening

	Proposal
	Is there a decision?
niti	Is the decision likely to
a	Is the timeframe for the
	Is there enough evider
)eci:	Is there potential to dis
sion	Does the current decis health?
to	Does the legal framework decision?
Cc	Are available staff and
) Sr	Is there major public c
DI DI	Is an HIA likely to prod
	Is there a risk for majo
ct H	200,000+ peop
ΠA	represents app

Proposal	Atlanta BeltLine Project
Is there a decision?	Yes
Is the decision likely to substantially affect health or health determinants?	Yes
Is the timeframe for the decision-making process appropriate?	Yes
Is there enough evidence and data for the analysis?	Yes
Is there potential to disproportionately affect vulnerable populations?	Yes- possible displacement of some residents, positive impacts also possible
Does the current decision-making process fail to adequately address health?	Health outcomes and baseline conditions will be indirectly included in the planning process.
Does the legal framework allow for health to be factored into the decision?	Yes
Are available staff and resources adequate to complete a successful HIA?	Yes
Is there major public controversy about the decision?	No
Is an HIA likely to produce new findings or recommendations?	Yes
Is there a risk for major catastrophic health consequences?	No

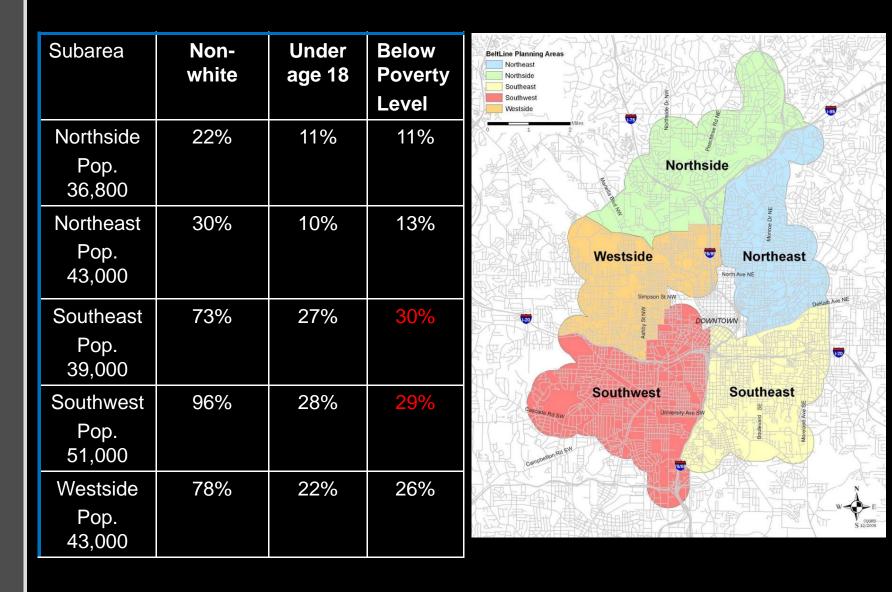
200,000+ people live within walking distance of the BeltLine, and more by 2030

represents approximately a **\$1.7 billion public investment**

Redevelopment: 6,500 acres of redevelopment, 10 redevelopment nodes

COCRD Parks: 1,300 acres of new greenspace and parks

Subareas with very different populations



Subareas

CQGRD

U.S. Census Bureau, 2000 Census.

Health disparities in study area

(per 100,000 population, average from years 2000- 2004)

Cause of Death	Northside	Northeast	Southeast	Southwest	Westside
Heart disease	159.1	131.6	178.8	236.5	209.8
Malignant neoplasms	115.1	96.9	154.4	183.9	163.2
Cerebrovascular disease	41.7	32.2	34.8	58.7	48.9
Homicide	10.6	6.3	25.5	30.8	32.3
Diabetes mellitus	11.7	11.0	21.5	27.2	24.0
Motor vehicle accidents	6.5	9.3	15.7	12.5	12.0
Asthma	*	*	5.2	4.7	4.6

CQGRD

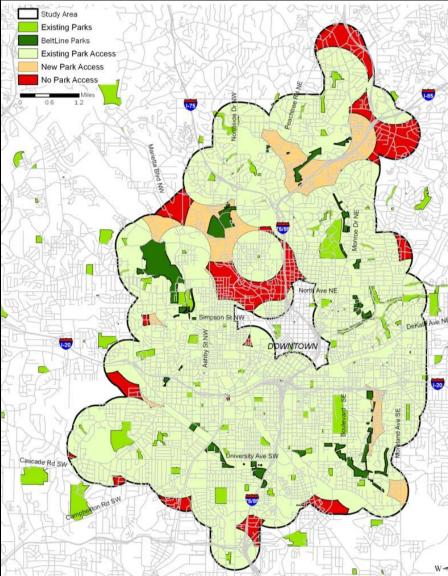
Georgia Dept. of Human Resources, Division of Public Health, Office of Health Information & Policy. 2006.

Park Access

Parks are well distributed based on socio-economic factors... but the Southwest subarea is and will continue to be underserved.

Not enough for the 2030 projected population if the goal remains 10.5 park acres/1,000 people.

Expected: only 6.5 park acres/1000 people in 2030



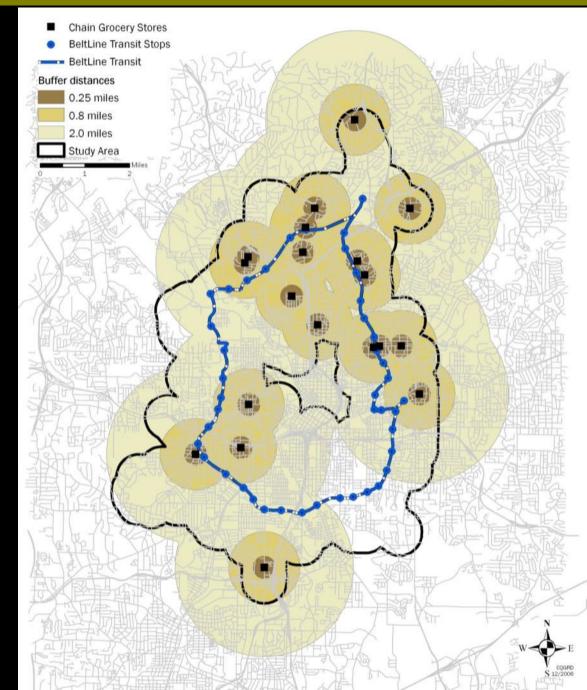
Appraisal: Access to Healthy Foods

Access and Equity: Sample Findings

CQGRD

Healthy Foods

The Southeast subarea currently lacks easy access to full-service grocery stores.



- Ensure affordable and healthy housing is provided throughout the BeltLine.
- Add more park acres and create better connected and more accessible parks, especially in the Southwest Subarea.
- Incorporate universal design principles
- Create linkages between the BeltLine and existing civic spaces, promote socialization
- Make health protection and promotion an explicit goal.
- Appointing public health professionals to the boards.
- Conduct ongoing and continuing evaluation of levels of physical activity attributed to the BeltLine.

How the HIA impacted the project:

Findings	Recommendations	Subsequent Project Impact
BeltLine will promote good	Project should go forward and should be	Unknown; may be impacted by instability broader economy.
health, especially physical activity, social capital, equity, and safety	fast tracked to realize health benefits for current city residents sooner than 25 years	
Project implementation should take into account health impacts	Make health promotion and protection an explicit goal in BeltLine funding decisions and implementation priorities	Health is one of a set of metrics for project assessment in support of decision-making. Codified in a Decision Support Tool.
		Following the HIA, the Environmental Protection Agency (EPA) awarded \$1 million to the BeltLine to clean up brownfields. Announcing the award, EPA cited the BeltLine HIA and its finding that "brownfields redevelopment can help reduce urban sprawl and lead to healthier communities by creating more greenspace and walkable areas". ⁶⁴

How the HIA impacted the project:

Findings	Recommendations	Subsequent Project Impact
Increased availability of affordable housing yields health benefits including social equity	Ensure affordable and healthy housing is provided throughout the BeltLine project area and establish programs and partnerships to address residential displacement	Evidence from the HIA in support of programs that ensure affordable housing and reduce displacement has been utilized to support an affordable housing policy for the BeltLine.
Increased access to parks yields health benefits including physical activity, social capital, and equity	Add more park acres and create better connected and more accessible parks, especially in the southwest planning area	Influenced decision-makers to prioritize new greenspace facilities as the first construction activity on the BeltLine.







* Ross.C.L. et al (2012). Health impact assessment of the Atlanta BeltLine.Am J Prev Med, 42(3):203-13.

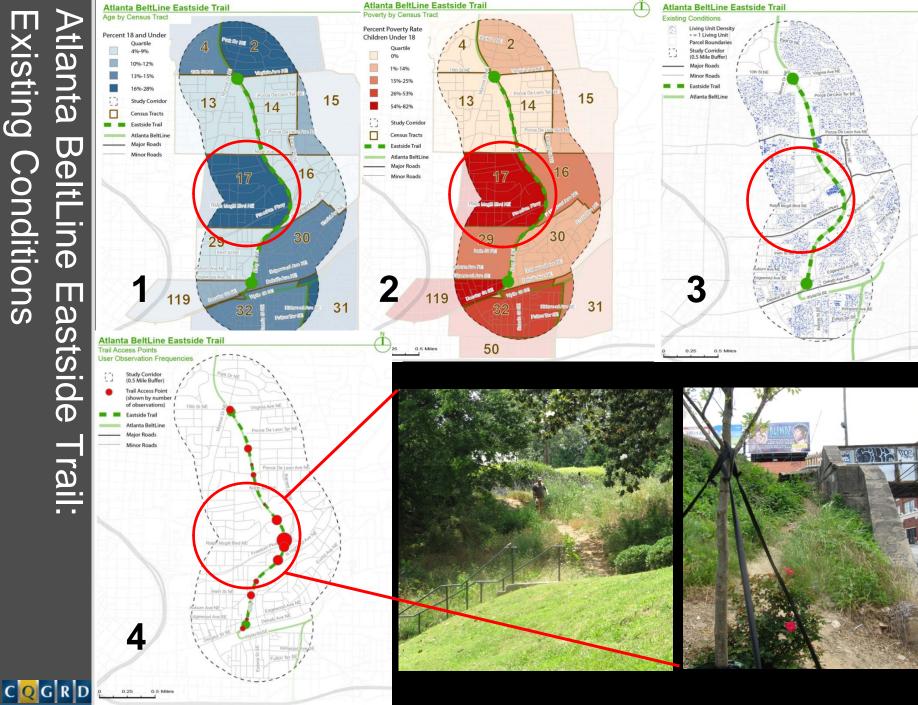
Health Benefits of the Atlanta BeltLine Eastside Trail: A Pre-Impact Assessment





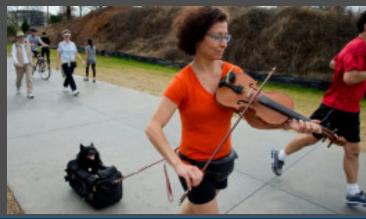


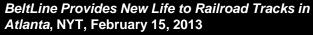
Existing Conditions Atlanta BeltLine Π astside



TR

Atlanta BeltLine Eastside Trail: Population Comparison Measuring Changes in Behavior Related to Health







Use of the trail increased from 54% to 84%

- 70% of Households reported not using the trail during the initial survey; at follow-up, 50% of this group increased the number of days they walked for at least 10 minutes
- Safety rating on the trail improved from 35% to 55%
- Incorporate bike racks, signage, bike rental opportunities

"Programs to engage these individuals could include educational efforts such as a bike safety courses or general education on the benefits of physical activity through trail usage. Additionally, survey results and prior research indicate that family-oriented programs and activities may be more effective in engaging vulnerable populations ... "

- CQGRD Kaiser Permanente Georgia Report, February 2013



Atlanta BeltLine pitches idea at Feb 25th Govathon...

Imagine having an app that tells 'us'... activities, locations, times, meet-ups, mode, user customized

Keep imagining ... strategically imagining in public to maintain momentum.

Demand for the Atlanta BeltLine Eastside Trail continually evolves.

Technical Assistance can lead to real project outcomes.

Vulnerable populations are difficult to reach, even through key informants. Think outside the box.

Fewer people know about active living opportunities in their own backyards than we expected.

Trail users will travel over an hour to get on the trail.

Workforce demands will increase as demand for healthy, active living communities continues to increase

Atlanta BeltLine

http://beltline.org/

Atlanta BeltLine Health Impact Assessment

http://www.cqgrd.gatech.edu/research/atlanta-beltline-healthimpact-assessment

Decision & Planning Support Tools

http://www.cqgrd.gatech.edu/research/decision-planning-supporttools/overview

Health Benefits of the Atlanta BeltLine Eastside Trail: A Pre-Impact Assessment

http://www.cqgrd.gatech.edu/research/health-benefits-of-theatlanta-beltline-eastside-trail

Health Impact Assessments

http://www.cqgrd.gatech.edu/research/healthy-places-impactassessment/publications

Built Environment and Public Health Curriculum

www.bephc.com

CQGRD

Project	Sponsor
Health Impact Assessment (HIA) of the Atlanta BeltLine	PEW Health Impact Project
Health Benefits of the Atlanta BeltLine Eastside Trail: A Pre- Impact Assessment	BeltLine Partnership
Atlanta BeltLine Eastside Trail: Population Comparison Measuring Changes in Behavior Related to Health	Kaiser Permanente

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- Jim Sallis & Active Living Research Staff

Nisha D. Botchwey, PhD, MCRP, MPH nisha.botchwey@coa.gatech.edu www.bephc.com

@healthyplaces_

CQGRD

Integrating Research, Policy and Practice into Play: The Healthy Hawaii Initiative 2000-2012

Jay Maddock, PhD University of Hawaii at Manoa

State studies tobacco deal

Share put at \$1.1 billion over 25 years

Advertiser Staff and News Services

Hawaii officials are weighing whether to accept a proposed \$1.1 billion settlement of the

state's lawsuit agai tobacco industry. State Attorney Gen gery Bronster said y she is pleased with the Among other things tlement would limit ad by the tobacco comp particularly market

Among other things thement would limit and by the tobacco comp particularly markets

cartoon images and T-shirt logos allegedly aimed at young people — concessions that the state would never be able to win at trial, Bronster said. She will meet with Gov. Ben

tial payment of \$14 million that could be forwarded as early as this year. Bronster said. The payments would then be increased each year to a peak of about \$50 million a year. State State attorneys general, who announced the proposal at a news conference yesterday, said it is a first step in the effort to curb tobacco's influence on the nation's youth. But they urged Congress to move ahead with other restrictions, such as giving the Food and effort to protect children. But he, too, urged Congress to pick up where it left off.

"With this very large settlement... we are moving forward, but we have a lot more to do," the president said at the White House, where he was joined by some of the eight

Tobacco: State could get \$14 million this year

FROM PAGE ONE

The four major tobacco companies reaching the agreement - Philip Morris, R.J. Reynolds, Brown Williamson and Lorillard said in a statement that they had accepted the settlement, although confident their legal defense would hold up in court, "as a way to end this unique litigation and join in a common sense approach to addressing important tobacco issues."

Tobacco companies generally traded lower on Wall Street yesterday as stock market indexes rose.

Public health groups criticized the agreement.

"It does too little to protect public health and too much to



David Scull / The Honolulu Advertiser

pre-

pro-

ough

sting

outh

Attorney General Margery Bronster held a press conference outside her office on Queen Street to discuss the latest developments in the tobacco lawsuit settlement negotiation.

The Honolulu Advertiser – Nov. 17, 1998

2000.

counsel of the Campaign for Tobacco-Free Kids, said: "This agreement is not a substitute for a comprehensive national tobacco control policy."

The proposal would require

States would be free to spend the windfall as they like, said Christine Gregoire, the Washington state attorney general. But negotiators smoking, and Bronster said she hopes some of the state's settlement money would be used to pay for a crackdown.

Advertiser Capitol Bureau writer Kevin Dayton con-

Tobacco deal

In the biggest U.S. civil settlement ever, cigarette makers have agreed to a \$206 billion deal, removing an enormous financial threat should the industry lose any state court cases. Under the agreement cigarette makers will:

- Pay \$12 billion over the next five years; remaining payments would be spread out until 2025.
- Establish a \$2 billion foundation that would send anti-tobacco advertising into every home in America.
- End advertising of tobacco on biliboards and public transportation and stop marketing tobacco paraphernalia such as hats and T-shirts that are popular with youth.
- Dedicate about \$250 million of the total specifically to cut teen smoking.
- Stop using carbon characters, such as the once-popular Joe Camel, in any tobacco advertising. The Mariboro Man can still be used in ads.

Tobacco Settlement Special Fund Structure

How Hawaii's Tobacco Settlement Money Works

Tobacco Settlement Special Fund within State Treasury Administered by Department of Health

Rainy Day Fund State Administration 's Emergency & Budget Reserve 40%

Tobacco Prevention and Control Trust Fund 25%

Department of Health 35%

Department of Health The Healthy Hawaii Initiative 25% Department of Human Services Children's Health Insurance Program (CHIP) Up to 10% of Total Moneys

The Healthy Hawai'i Initiative (HHI)

-Increase quality and years of healthy life for all of Hawai`i's people

-Reduce existing health disparities among ethnic groups in Hawai`i

Socio-Ecological Framework

Social Structure, Policy & Systems

Community

Institutional/Organizational

Interpersonal

Individual

Circa 2000 – pre-dates ARL/ALPES

University of Hawaii – Research & Evaluation

> Hawaii Department of Health -Coordination

Community Based Organizations Hawaii Department of Education

> Health Care Community



Healthy Hawaii Initiative

• Physical Activity and Nutrition with a focus on system, environmental and policy change

Grant funding allocated for:

- School-based programs
- Community programs
- Public Education
- Professional Education
- Surveillance and Evaluation

Discovering Shared Goals

• Make a Hawaii a healthier place to live, work, learn and play

• Educate, motivate and empower all of our citizens to live healthy lifestyles

And Differing Goals

 HDOH – Please the Director of Health, Governor and State Legislature

• UHM – Publish, get promoted, become plenary speaker at ALR

• HDOE – To educate the keiki, meet NCLB requirements

Can these goals coexist?

• Yes, but the type of research that you do is very different than the majority of people in your field.

• This is quite scary for a brand new 27 year old assistant professor.

Modifying the Recess Before Lunch Program: A Pilot Study in Kaneohe Elementary School

Cathy Tanaka¹, Katherine L. Richards², Leilani S. L. Takeuchi², Mitchell Otani³, Jay Maddock²

¹Healthy Hawai 'i Initiative, Hawai 'i Department of Health ²University of Hawai 'i Department of Public Health Sciences and Epidemiology ³Kaneohe Elementary School

Abstract

Moving recess before lunch (RBL), though a simple schedule change, may provide many benefits for both students and elementary schools. Having recess before lunch has been shown to decrease plate waste (Bergman, et al., 2003; Gettlinger, 1996; Montana OPI, 2003; Ruppenthal & Hogue, 1977), and may improve discipline problems. The RBL schedule change has not previously been implemented in Hawai'i schools. The purpose of this pilot study was to assess the feasibility of implementing a modified version of RBL into elementary schools in Hawai'i . The modified version of RBL allows for implementation into a three-bell lunch system, a system used by many elementary schools in Hawai'i. A one-grade-per-lunch period RBL switch was assessed among 6th grade students for 1) shorter lunch line wait, 2) increased access to recess equipment 3) decrease in conduct-related referrals, and 4) moderate decrease in food and milk waste for the affected grade(s). Results indicate a significant decrease in lunch line wait, a decrease in discipline referrals, and a slight non-significant decrease in lunch waste. Additional comments from administrators and teaching staff indicate positive changes in student behavior on the playground, in the cafeteria, and in the classroom. One major finding was the reduction in discipline problems after the implementation of RBL, as seen in both the quantitative referral counts and qualitative teacher and administrator questionnaires. The positive results of this study support further implementation of RBL into schools in Hawai'i. Kaneohe Elementary School has continued to apply recess before lunch to the sixth grade lunch periods and is considering further implementation into other grades. The Hawai'i Action for Healthy Kids team plans to approach more schools in Hawai'i about using the modified recess before lunch program.

© 2005 Californian Journal of Health Promotion. All rights reserved. Keywords: Hawaii, elementary school, fitness, nutrition

Introduction

The National School Lunch Program provides low cost, nutritionally balanced meals for millions of students each school day, including approximately 182,000 public school students in Hawai'i. These lunches must meet the recommendations of the Dietary Guidelines for Americans and provide essential nutrients to students (USDA, 2003). Healthy eating patterns and adequate nutrients are important for schoolaged children to promote cognitive development, prevent health problems and reduce under-nutrition which has been linked to increased behavioral and emotional functioning (MMRW, 1996; USDA, 2003). Research has shown that students who participate in NSLP have better nutrient intakes than students who eat sack lunches, from vending machines, or off campus (Gordon, Devaney, & Burghardt, 1995; Rainville, 2001).

Though the NSLP provides nutritious meals to school students, environmental or system-related factors, such as having lunch before recess may decrease the amount of food students are eating as well as the nutrients they need to function and learn throughout the school day (Bergman, Buergel, Englund, and Femrite, 2003; Getlinger, Laughlin, Bell, Akre, & Arjmandi, 1996; Ruppenthal & Hogue, 1977). In the 'normal' lunch schedule with lunch first and then recess, the alluring qualities of recess may push students

PREVENTING CHRONIC DISEASE

PUBLIC HEALTH RESEARCH, PRACTICE, AND POLICY

VOLUME 5: NO. 3

JULY 2008

COMMUNITY CASE STUDY

Increasing Access to Places for Physical Activity Through a Joint Use Agreement: A Case Study in Urban Honolulu

Lehua B. Choy, MPH, Meghan D. McGurk, Reid Tamashiro, MPA, Blythe Nett, MPH, Jay E. Maddock, PhD

Suggested citation for this article: Choy LB, McGurk MD, Tamashiro R, Nett B, Maddock JE. Increasing access to places for physical activity through a joint use agreement: a case study in urban Honolulu. Prev Chronic Dis 2008;5(3). http://www.cdc.gov/pcd/issues/2008/jul/07_0117. htm. Accessed [date].

PEER REVIEWED

Abstract

Background

To increase levels of physical activity (PA), interventions that create or enhance access to places for PA are recommended. Establishing a joint use agreement is one way to increase access to existing PA and recreational facilities. The purpose of this article is to present a case study of In-Motion, a pilot joint use agreement project at one urban high school in Honolulu, Hawaii.

Context

Residents of urban Honolulu are underserved by the amount of parkland and recreational facilities available for their use. The Honolulu County Department of Parks and Recreation sought to implement a joint use agreement to use the facilities of one urban high school for a recreational program. The high school selected for the pilot project has a student population primarily from lowincome and ethnic minority backgrounds.

Methods

An assessment of the potential of 7 urban high schools to implement a joint use agreement was conducted to select the pilot site. In-Motion developed and implemented a joint use agreement. PA preferences of students, staff, and community members were assessed to guide recreational program offerings. Various recreational classes were offered free to the school community.

Consequences

Several barriers to implementing the joint use agreement and recreational program were encountered. However, participants were satisfied with the recreational classes they attended and said that the In-Motion program helped them to engage in more PA. Program awareness by high school students and staff was high.

Interpretation

In-Motion has successfully modeled a pilot joint use agreement and provided new opportunities for PA to the high school's students, teachers, and staff, and to community residents.

Background

More than half of U.S. adults do not meet recommended physical activity (PA) levels (1) of at least 30 minutes of moderate-intensity PA on 5 or more days per week or at least 20 minutes of vigorous-intensity PA on 3 or more days per week (2). Additionally, many adolescents do not engage in sufficient amounts of PA (3). To increase PA levels among adults and adolescents, the *Guide to Community Preventive Services* recommends interventions that create or enhance access to places for PA combined with informational outreach activities (4). These interventions have the potential to result in a 25% increase in the number of people who exercise at least 3 times per week (5). The recommendation of the *Guide to Community*

1

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PREVENTING CHRONIC DISEASE

PUBLIC HEALTH RESEARCH, PRACTICE, AND POLICY

VOLUME 5: NO. 1

JANUARY 2008

COMMUNITY CASE STUDY

A Survey of Policies and Local Ordinances Supporting Physical Activity in Hawaii Counties

Katie M. Heinrich, PhD, Courtney B. Johnson, MPH, RD, Yuka Jokura, BPHE, Blythe Nett, MPH, Jay E. Maddock, PhD

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PEER REVIEWED

Abstract

Background

Features of the built environment that influence physical activity behavior characterize Active Community Environments.

Context

Whether Active Community Environments policies exist in the state of Hawaii's four counties is unknown. The purpose of this study was to provide a baseline assessment of these policies in Hawaii.

Methods

A survey assessing policies in six domains (i.e., sidewalks, bike lanes, greenways, recreational facilities, commercial buildings, and shared-use paths) was completed by employees of Hawaii planning departments.

Consequences

Honolulu County had the most policies (n = 13), followed by Maui County (n = 6), Kauai County (n = 2), and Hawaii County (n = 1). Written policies were most prevalent in Honolulu County (n = 15), followed by Kauai County (n = 14), Hawaii County, (n = 4), and Maui County (n = 3). Sidewalk policies were reported for Honolulu County, Maui County (no written policies were found for Maui County), and Kauai County. Bike lane and greenway policies were found for Honolulu County (reported and written) and Kauai County (written). Recreation facility and pedestrian shared-use path policies existed for all counties, although only Honolulu and Kauai counties had written policies for commercial buildings (Maui County reported having policies). Few policies directly addressed physical activity promotion.

Interpretation

The most populous county, Honolulu, had the most policies in place, although discrepancies existed between reported and written policies. This baseline measure of physical activity—related policies will help focus efforts of county coalitions to increase opportunities for physical activity. Additional policies should be tracked with population behavior surveillance.

Background

Physical inactivity is a major public health concern in the United States and contributes to the obesity epidemic (1). A slight increase in physical activity levels among inactive people has a major impact on the improvement of public health (2). The built environment influences physical activity of community residents by providing visual cues and opportunities for activity (3).

Moderate physical activity levels are linked to how communities are designed (4). For example, residents of neighborhoods with mixed uses (i.e., neighborhoods that

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PREVENTING CHRONIC DISEASE

PUBLIC HEALTH RESEARCH, PRACTICE, AND POLICY

VOLUME 8: NO. 5, A105

SEPTEMBER 2011

ORIGINAL RESEARCH

An Observational Study of Physical Activity in Parks in Asian and Pacific Islander Communities in Urban Honolulu, Hawaii, 2009

Jane J. Chung-Do, DrPH; Elise Davis, MPH; Stephanie Lee; Yuka Jokura, MPH, CHES; Lehua Choy, MPH; Jay E. Maddock, PhD

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PEER REVIEWED

Abstract

Introduction

Research on park use among Asians and Pacific Islanders is limited. This study examined use and conditions of 6 urban parks, varying in size, location, and neighborhood income level, in predominantly Asian and Pacific Islander communities in Honolulu, Hawaii. Sociodemographic predictors of park use were also identified.

Methods

Observations were conducted from June through October 2009. Raters used the System for Observing Play and Recreation in Communities to count the number of people in predesignated zones and to code their physical activity level as sedentary, moderate, or vigorous. Raters coded park conditions on the basis of accessibility and usability, whether equipment and supervision were provided, and whether organized activities were occurring. Differences associated with sex and age of park users and income level of the neighborhood were examined by using χ^2 and logistic regression.

Results

Raters observed 6,477 park users, most of whom were men. Approximately 60% of users were sedentary, 26% were engaged in moderate activities, and 14% performed vigorous activities. Women and girls were less active than men and boys. More users were present in the evenings, but morning users were more active. Although park users in low-income neighborhoods were more active than users in high-income neighborhoods, fewer people used the low-income parks. Most parks were accessible and usable but few provided equipment and supervision. Organized activities were rarely observed.

Conclusion

More efforts should be made to promote parks as a physical activity resource in Asian and Pacific Islander communities, particularly for women, girls, and low-income residents. More research should be conducted to identify barriers and facilitators to park use, especially among underrepresented populations.

Introduction

Although physical inactivity is a major public health issue in the United States, few studies have been conducted with Asian and Pacific Islander populations. Approximately 12 million Asians and Pacific Islanders live in the United States, accounting for approximately 5% of the total US population (1). The low proportion of Asians and Pacific Islanders has resulted in limited research with these populations, although a lower proportion of Asians and Pacific Islanders (58.6%) are physically active compared with the



The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention. Journal of Physical Activity and Health, 2011, 8(Suppl 1), S135-S140 © 2011 Human Kinetics, Inc.

A Comprehensive Multi-Level Approach for Passing Safe Routes to School and Complete Streets Policies in Hawaii

Katie M. Heinrich, Nancee N. Aki, Heidi Hansen-Smith, Mark Fenton, and Jay Maddock

Background: Policy changes were needed to reshape the built environment for active transportation. **Methods:** Using the social ecological model as a framework, the Healthy Hawaii Initiative worked with a contractor to develop a series of meetings, planning sessions, and workshops. Activities spanned 22 months between 2007 and 2009, and involved multiple stakeholders, including educational outreach for legislators and collaborative planning sessions with advocates. **Results:** Ultimately, with the help of the contractor to initiate the process, Complete Streets and Safe Routes to School (SRTS) legislation were introduced January 2009. Advocacy groups monitored bill progress, testified at hearings, and assisted in rewording the bills. The SRTS statute required the Department of Transportation (DOT) to adopt complete streets policies and review existing highway design standards and guidelines. Both bills were signed into law June 2009. **Conclusions:** Focusing efforts at multiple levels of the social ecological model involving champions and key stakeholders led to the successful passage of legislation supporting active transportation. Tracking policy implementation and evaluation over time will help determine actual impact on active transportation behaviors across Hawaii.

Keywords: social-ecological model, elected officials, physical activity, legislation

Over the past 20 years, leisure-time physical activity rates have stabilized, while rates of obesity have climbed.¹⁻³ Decreases in non-leisure-time physical activity such as active commuting may be contributing to the obesity epidemic.⁴

Interventions to increase physical activity through individual and social approaches have shown modest effects.⁵ The social ecological model postulates that behavior is influenced by a variety of factors including not only individual level knowledge, attitudes, and behaviors but also policy, institutional, community, and societal level influences.⁶ Accordingly, community and policy-level interventions should have the greatest population reach and may be the most effective for widespread behavior change.⁶

Nationwide, 2 policies have been gaining support to improve the safety of pedestrians and cyclists for active transportation: Safe Routes to School (SRTS) and Complete Streets. SRTS is a comprehensive approach to increase walking and biking to school through engineering, education, enforcement, encouragement and evaluation.⁷ Complete streets focus on safely accommodating all modes of transportation, prioritizing pedestrians and cyclists, through a variety of policies and practices.⁸ While both SRTS and complete streets include a variety of activities, statewide enabling legislation is often essential to ensure broad changes at the highest level of the social ecological model.

Public health professionals and advocates cannot enact policy directly. To have an impact, multisectoral partnerships are essential to influence key decision-makers who enact policies and procedures.^{9,10}This manuscript summarizes the process and lessons learned from passing SRTS and complete streets legislation at the state level using the framework of the social ecological model.

Methods

The Healthy Hawaii Initiative (HHI) was established in 2000 to lead statewide chronic disease prevention efforts for the Hawaii State Department of Health (DOH).¹¹ HHI initially began to focus on improving the built environment for active transportation to address high rates of pedestrian¹² and bicyclist¹³ fatalities and lack of prioritization of these issues by policy-makers in Hawaii.¹⁴

For statewide policy change, HHI formulated a multilevel approach based on the social ecological model (Figure 1)⁶ to be delivered through a series of meetings, training sessions, and workshops with diverse stakeholders. HHI contracted with an expert consultant (Mark Fenton) who had a multidisciplinary background

Heinrich is with the Dept of Kinesiology, Kansas State University, Manhattan, KS. Aki and Hansen-Smith are with the Healthy Hawaii Initiative, Hawaii State Dept of Health, Honolulu, HI. Fenton is with Fenton Consulting, Boston, MA. Maddock is with the Dept of Public Health Sciences, University of Hawaii, Honolulu, HI.

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Assessing State-Level Active Living Promotion Using Network Analysis

Opal Vanessa Buchthal, Nicole Taniguchi, Livia Iskandar, and Jay Maddock

Background: Physical inactivity is a growing problem in the United States, one that is being addressed through the development of active living communities. However, active living promotion requires collaboration among organizations that may not have previously shared goals. *Methods:* A network analysis was conducted to assess Hawaii's active living promotion network. Twenty-six organizations playing a significant role in promoting active living in Hawaii were identified and surveyed about their frequency of contact, level of collaboration, and funding flow with other agencies. *Results:* A communication network was identified linking all agencies. This network had many long pathways, impeding information flow. The Department of Health (DOH) and the State Nutrition and Physical Activity Coalition (NPAC) were central nodes, but DOH connected state agencies while NPAC linked county and voluntary organizations. Within the network, information sharing was common, but collaboration and formal partnership were low. Linkages between county and state agencies, between counties, and between state agencies with different core agendas were particularly low. *Conclusions:* Results suggest that in the early stages of development, active living networks may be divided by geography and core missions, requiring work to bridge these divides. Network mapping appears helpful in identifying areas for network development.

Keywords: community-based research, public health, health promotion, policy, evaluation

Physical inactivity is a growing health problem in the United States, contributing to rising rates of obesity and chronic disease among both adults and children.¹⁻³ Contributing to this problem are the structural barriers in modern communities that act to reduce physical activity in daily life.⁴⁻⁶ In response, public health agencies are working to promote active living within communities. Active living promotion, defined as "a way of life that integrates physical activity into daily routines,"⁷ focuses on reducing structural barriers to active transport (walking, bicycling), building opportunities for physical activity in daily life (walking children to school, playing in the park), improving access to sports and recreational facilities, and encouraging individuals to adopt these daily behavioral changes.⁸

Promoting active living is a complex undertaking, requiring collaboration among a wide range of state, county, and local agencies in both policy and program development. Organizations involved in different aspects of active living may not have a history of working with each other, or even view themselves as having related missions. Consequently, efforts are being made to develop coalitions and networks among these organizations, to build a sense of shared mission and increase collaboration between agencies. These activities reflect the understanding that a single agency cannot solve complex public health problems alone. Partnership development is needed to provide more effective public health services.^{9–13}

One challenge in this effort is evaluation and measurement: how do you document the work of coalitionbuilding? How do you identify the strengths and weaknesses of your network, or map the key players in your network? Knowledge of how to integrate and promote interorganizational collaboration is limited,¹⁴ and the importance of developing new methodologies for public health systems research has been noted.¹⁵

Network analysis is a potential tool for assessing the development of partnerships and collaborations. Network approaches have been used to examine how public health systems address issues such as provision of mental health¹⁰ and HIV services,¹⁶ health policy,¹¹ and emergency preparedness.¹⁷ Network analysis has also recently been used to assess the impact of international collaboration efforts among researchers and agencies involved in physical activity promotion in Brazil.¹⁸

Network studies that have been conducted to assess the collaboration among partners working in state tobacco control programs^{14,19} may provide a particularly salient model for assessing statewide active living promotion efforts. Statewide tobacco control networks bear a pronounced structural resemblance to the types of organizations involved in active living promotion within states. Because tobacco control networks are more mature, these

The authors are with the Dept of Public Health Studies, University of Hawaii at Manoa, Honolulu, HI.

Priority of Activity-Friendly Community Issues Among Key Decision Makers in Hawaii

Jay E. Maddock, Bill Reger-Nash, Katie Heinrich, Kevin M. Leyden, and Thomas K. Bias

Background: The U.S. Community Guide to Preventive Services strongly recommends changes in urban design, land use and accessibility to increase physical activity. To achieve these goals, policy change is often needed. This study assessed attitudes of decision makers in Hawaii to determine if physical activity related issues are among their priorities. Methods: State and county officials (n = 179) were mailed surveys. Respondents listed the three most important problems (openended) in Hawaii and rated the importance of 23 specified problems, of which six directly related to physical activity. Results: The survey was completed by 126 (70.4%) respondents. The most frequently mentioned categories for the open-ended questions were affordable housing, environment/sustainability, sprawl/ traffic/population growth, and healthcare. Among the closed-ended physical activity related items, increasing traffic was ranked highest (43.9%) and fourth overall. Less than 12% of decision makers rated other physical activity issues as important. Conclusions: Future work is needed to increase the visibility and importance of physical activity related issues among policymakers.

Keywords: physical activity, policy, elected officials, legislation

Regular physical activity is associated with decreased risk of many chronic diseases and with improved quality of life.¹ Over the last several years, there has been a growing awareness of the importance of the built environment in supporting or hindering adequate daily physical activity.² The U.S. Community Guide to Preventive Services strongly recommends four policy and environmental approaches to increasing physical activity. These include (1) creation of or enhancing access to places for physical activity, (2) point of decision prompts, (3) street and community scale urban design, and (4) land use policy and practices to enhance active transport.3.4 To better understand what enables active living communities, a modified Delphi process was used to develop indicators of Activity-Friendly Communities (AFC), which included land use environment, access to exercise facilities, transportation environment, aesthetics, travel patterns, social environment, land use economics, transportation economics, institutional and organizational policies, and promotion of physical activity.5 To have a population-based impact on physical activity, policy changes are needed at all levels of state and local government. Most importantly, there needs to be changes in existing land-use planning regulations and enforcement. Although these changes may prove difficult, they are certainly not insurmountable.6

Legislation, budget priorities, and regulation can have a greater impact on the public's health than individual based approaches.⁷⁻⁹ Thus, elected and appointed officials have an essential role in public health and in promoting AFC. Despite this role, little systematic research has been done to assess the relative priority for AFC among local and state decision makers. A better understanding of what issues policymakers perceive as important can help guide public health efforts and be used as a surveillance tool to measure effectiveness. The goal of this study was to assess the priority of AFC policies among decision makers in Hawaii.

Methods

Due to the small size of Hawaii, a census approach was used. All state and county elected officials were selected, as well as gubernatorial appointed officials at state-level departments and agencies. This led to a population of 185 positions, with 25 state senators, 51 state representatives,

Maddock and Heinrich are with the University of Hawaii at Manoa. Reger-Nash, Leyden, and Bias are with West Virginia University.

Volume 9, 2012

ORIGINAL RESEARCH

A Statewide Observational Assessment of the Pedestrian and Bicycling Environment in Hawaii, 2010

Jay E. Maddock, PhD; Vickie Ramirez, MA; Katie M. Heinrich, PhD; Miaoxuan Zhang, MS; I. Made Brunner, PhD, MURP	 Navigate This Article Abstract Introduction
PEER REVIEWED Abstract	 Author Information References
Abstract	Tables

Introduction

Walking and bicycling are important but underused modes of transportation in the United States. Road design influences how much walking and cycling takes places along streets and roads. Currently, numerous national policy initiatives, including Safe Routes to School and Complete Streets, are attempting to improve pedestrian and cycling infrastructure and "friendliness." However, no state has completed a systematic assessment of its streets to determine how amenable they are to walking and bicycling. Our statewide study was undertaken to assess how accessible and friendly Hawaii roads are to these 2 activities.

Methods

We randomly selected street segments in Hawaii's 4 counties and then completed objective assessments using the Pedestrian Environmental Data Scan. We audited 321 segments, and interrater reliability was adequate across all measures. Streets were coded as high (42.4%) or low capacity (57.6%) depending on how much vehicular traffic the street was designed to accommodate. Outcome measures included street accommodations (ie, sidewalks and crossing aids) and pedestrian and cyclist use.

Results

Most high-capacity streets had sidewalks (66%). These sidewalks were usually in good condition, contiguous, and had traffic control devices and pedestrian signals. Most low-capacity roads did not have sidewalks (63.4%). Cycling facilities were limited (<10%) on both types of roads. Pedestrian and bicycle traffic was related to mixed use, including both residential and retail space, and to pedestrian and cycling infrastructure.

Conclusions

Road segments in Hawaii with more infrastructure and types of use, including single-family houses, apartment complexes, restaurants, office buildings, and industrial buildings, are used more by pedestrians and cyclists.

Top of Page

Introduction



MLITENA MARCH 28, 2007 93 58 MidWeek March 28, 2007

On The Move YU SHING TING

Walking, The Simplest Exercise

Do you want to get back into shape, but don't know where to start. Try walking. Next Wednesday (April 4), the state Department of Health (DOH) is launching a 10-week statewide

walking campaign called Step It Un Hawaii to encourage adults to walk 30-plus minutes a day. "The purpose of the campaign is to get people who haven't been active active," says Jay Maddock, director of the Office of Public Health Studies at the University of Hawaii "And walking is a nice first step for people who want to get started.

"Our target is working adults, ages 35 to 55, because when we looked at our statistics you really see a big drop off in that cate-gory. We found that people have trouble participating in the same

you didn't have when you were avid stair climber, uses the stairs best.

-

The commercials suggest that

The Young View KATLE YOUNG

Walking with a friend is a fun, active way to get together. You'll be surprised at how much ground you can cover

trouble participating in the same activities they did when they were growing up Asso, they find by here to significant life changes, we here significant life changes, we here structing a functional time the source of 30-plus in the District of the Distri

starting a family. And when you're in your mid 30s, you tend In one commercial, LL Gov. having the lowest rate of obesity in heart discase," says Maddock. In have a lot of time pressures that the Dake Aiona, who himself is an for adults. Colorado ranked the "Aloni ca area you area you are the providence. One of and it gives your energy. One of , However, according to the reasons people say they don't component of the DOH's statewide



GET IN STEP

Advertiser Apr. 18107

Furry friends make great walking companions

Here's our third weekly walking tip, as part of the Step It Up Hawaii campaign. Got a dog? Think of him as a walking machine with hair! An estimated 25 percent to 40 percent of dogs are overweight or obese, along with 30 percent of humans. The Humane Society of the United States recommends walking a dog twice a day. This is a great way for dog owners to reach their recommended 30-minute-a-day minimum of walking. Walking is more likely to be maintained if there is a

purpose - and that would be your dog. Many people take a brisk walk because it makes them feel good, relieves stress, and protects against obesity, heart disease, diabetes and breast cancer. When you arrive home from work, your buddy will be waiting for you. Isn't it time you started walking?

Next week: Walking in the tropics. For more information, go to www.healthyhawaii.com.

- Drs. Jay Maddock front PJ Sect. h flom

utting together some of the safe valking messages for pedestrians. According to DOH, for people who are not regularly physically active, walking at least 30 minutes a day, five days a week is one of the best things they can do for their body and state of mind. Moderate to vigorous walking helps to relieve stress, gives the heart the workout that it needs, reduces the likelihood of high blood pressure makes you feel good, and can help you look good too. They add that if you walked just 30 minutes a day, five days a week, after a year you could lose three to five On Oahu, a community walk

called HMSA Go Walk At Lunch is scheduled for Wednesday, April 18 at the state Capitol. The event is free, open to the public and takes place from 11 a.m. to 1 p.m. There will also be giveaways along the route which goes around the Capitol and Iolani Palace, total-

ing less than one mile. Step It Up Hawaii is the lates Throughout April and May, there will be media messages (television, and print) encouraging a transmutating for Maddock, obesity numbers have exercise is that they don't have behavioral risk been slowly increasing worth been slowly increasing worth

Did we meet our goals?

- Passed Complete Streets State and All Counties
- Extensive change in a predominately Native Hawaiian community
- 4th most active state in the US (58.5% meet guidelines)



DOH Objectives

- In 2012, the state legislature created a Childhood Obesity Task Force specifically to recommend policy solutions to obesity in Hawaii.
- Submitted 8 bills/resolutions for this session, several are passing through committee now.
- Senator Josh Green is our legislative champion.

UH Objectives

• Over 30 publications related to HHI.

• Promoted to full Professor in 2009

• Panel speaker at ALR – Right now!

DOE Objectives

 "You've got to understand we have different missions, ours is to educate the children, not keep them healthy" senior HDOE official in December 2012 at the Childhood Obesity Task Force Meeting.

• We still have a way to go.

Capacity Development

• Katie Richards

- Lehua Choy
- Jessica Yamauchi







• Katie Heinrich



Mahalo

