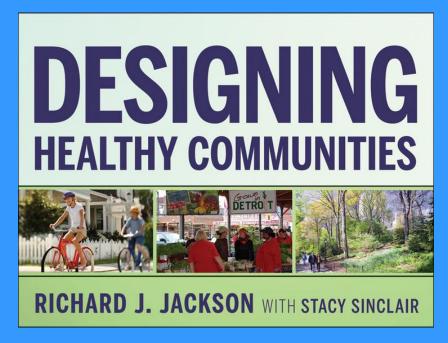


We Are What We Eat— And What We Build



Richard J Jackson MD, MPH, FAAP HonASLA, HonAIA dickjackson@ucla.edu

DESIGNING HEALTHY COMMUNITIES

The 2012 PBS 4-Part Series

Dr. Richard Jackson, former head of Environmental Public Health for the Centers for Disease Control, explains the link between health and the way our communities – especially our suburbs – are designed. Obesity, asthma, diabetes and heart disease are aggravated by the auto-centric way we live today. It's no secret that today's young people are likely to have shorter lives than their parents due to

unhealthy lifestyles. It doesn't have to be this way. Well-designed communities can improve both physical and mental health.





Special Offer, courtesy of the Fund for the Environment & Urban Life:

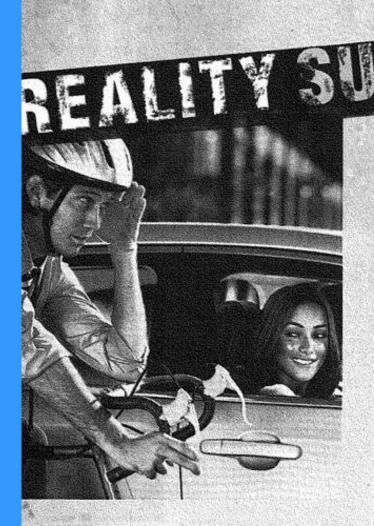
Purchase the Complete Designing Healthy Communities Series (4 DVDs, 1 hour each, plus 4 bonus videos) to share with colleagues. Normally \$99, the series is available at \$20.

For this special offer, visit:

www.DesigningHealthyCommunities.org/oram

Limited supply available at discount. \$6 s/h added.



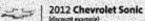


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CDC: Antidepressant use skyrockets 400% in past 20 years



Reprints & Permissions

Use of antidepressant drugs has soared nearly 400% since 1988, making the medication the most frequently used by people ages 18-44, a report from the Centers for Disease Control and Prevention shows.



Matt Detrich, AP

Doctors who prescribe some popular antidepressants should monitor their patients closely for warning signs of suicide, especially when they first start the pills or change a dose. Eleven percent of Americans ages 12 years and older took antidepressants during the 2005-08 study period, the authors write. They add that though the majority of antidepressants were taken to treat depression, the drugs also can be used for anxiety disorders and other conditions.

The data are from the National Health and Nutrition Examination Surveys, which included information from 12,637 participants about prescription-drug use, antidepressant use, length of use, severity of depressive symptoms and contact with a health professional.

Mental-health professionals not associated with the survey cited several reasons as possible explanations for the spike:

Commuting by driving is not good for your physical, mental, and social health.







Traffic along LA freeways and Wilshire Blvd.

We Pediatricians Fear This Most In Our Own Children...

R		Cause and Number of Deaths								
A	Under 1	1-3	4-7	8-15	16-20	21-24	Other Adults			65+
K				0-10			25-34	35-44	45-64	- 10 m
1	Perinatal Period	Congenital Anomalies	MV Traffic Crashes	MV Traffic Crashes	MV Traffic Crashes	MV Traffic Crashes	MV Traffic Crashes	Malignant Neoplasms	Malignant Neoplasm	and the same
2	Congenital Anomalies	MV Traffic Crashes	Malignant Neoplasms	Malignant Neoplasms	Homicide	Homicide	Suicide	Heart Disease	A STATE OF THE PARTY OF THE PAR	
3	Heart Disease	Accidental Drowning	Congenital Anomalies	Suicide	Suicide	Suicide	Homicide	MU		
4	Homicide	Homicide	Accidental Drowning	Homicide	Malignant Neoplasms	Accidental Poisoning	M			
5	Septicemia	Malignant Neoplasms	Exposure to Smoke/Fire	Congenital Anomalies	Accidental Poisoni	or e	verv	ade	gro	un
6	Influenza/ Pneumonia	Exposure to Smoke/Fire	Homicide	Accidental Drowning	10°					—car
7	Nephritis/ Nephrosis	Heart Disease	Herita	NAME OF TAXABLE PARTY.						No. 1
8	MV Traffic Crashes	Ser IDF			C	cause of death				

In 2009 in the US

2,953,501million vehicle miles traveled
33,808 people died
in motor vehicle traffic crashes.
One in a million chance of death per every 87 miles driven

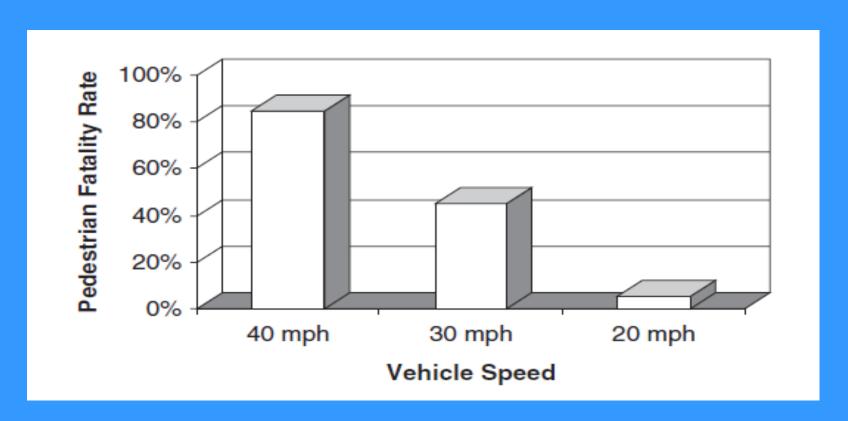
- http://www.fhwa.dot.gov/policyinformation/statistics/2009/vm1.cfm
- http://www-nrd.nhtsa.dot.gov/Pubs/811363.PDF

Automobile fatality rates by city, 1998

(excluding pedestrian fatalities; deaths/100,000/year)



Pedestrian Fatality Rates for Collisions at Different Speeds



The Most Prevalent Chronic Disease of Childhood Is...

Asthma Study in 12 Southern California High Schools

- 3535 children with no history of asthma in 6 high and 6 low air pollution high schools
- 5 years later: 265 children developed asthma.
 - High ozone high schools:
 - asthma rate was 3.3x higher in children playing three or more sports.
 - Low ozone high schools:
 - sports had no effect on asthma rates

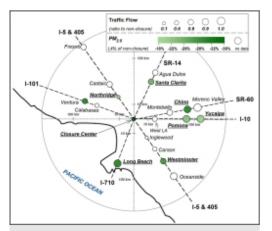
Did you Hear about Carmageddon? When the 405 Freeway in LA Was Closed for a Weekend in 2011?





'Carmaheaven': Closure of 405 in 2011 improved air quality up to 83 percent

By Alison Hewitt | September 28, 2012



Traffic and pollutants (Carmageddon 2011)

Take the time to enjoy a deep breath this weekend when the 405 freeway closes for Carmageddon II. If it's anything like last year, the air quality is about to get amazing.

In study findings announced Sept. 28, UCLA researchers report that they measured air pollutants during last year's Carmageddon (July 15–17) and found that when 10 miles of the 405 closed, air quality near the shuttered portion improved within minutes, reaching levels 83 percent better than on comparable weekends.

Because traffic dipped all over Southern California that weekend, air quality also improved 75 percent in parts of West Los Angeles and Santa Monica and an average of 25 percent regionally — from Ventura to Yucaipa, and Long Beach to Santa Clarita.

2 day closure of 10 miles of Highway 405 in July 2011



Air Quality Change During Carmageddon
Close to the Highway Improved 83%
In West Los Angeles and Santa Monica Improved 75%
For the Region Improved 25%

A.D.H.D. Seen in 11% of U.S. Children as Diagnoses Rise



A.D.H.D. Diagnoses Worry Doctors: The Times's Alan Schwarz on doctors' growing concern about the skyrocketing use of A.D.H.D. medications in children.

Nearly one in five high school age boys in the United States and 11 percent of school-age children over all have received a medical diagnosis of attention deficit hyperactivity disorder, according to data from the federal Centers for Disease Control and Prevention.

20% of Teen Age boys taking
Diagnosed with
Hyperactivity

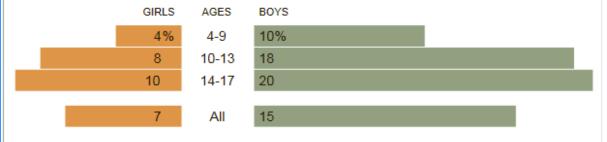
New York Times March 31, 2013 CDC Data

Published: March 31, 2013

Rates of A.D.H.D. Diagnosis in Children

Nearly one in five high school-aged boys has been given a diagnosis of attention deficit hyperactivity disorder, about twice the rate of girls in the same age group, according to an analysis of 2011-12 data from the Centers for Disease Control and Prevention. Related Article »

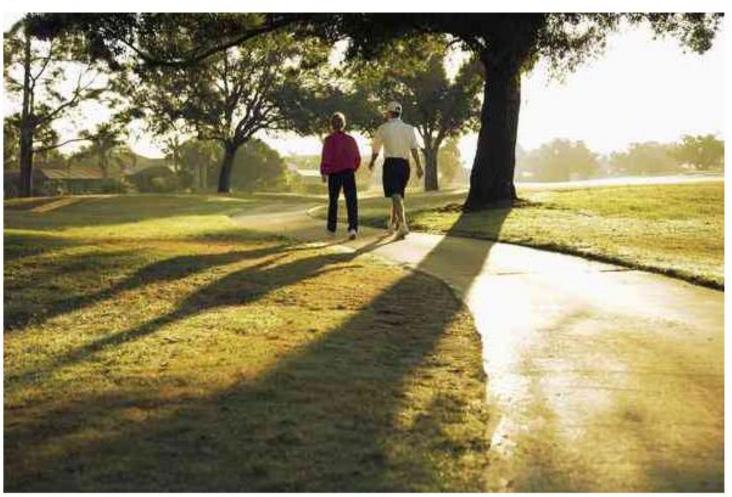
Children ages 4 to 17 ever given a diagnosis of A.D.H.D.



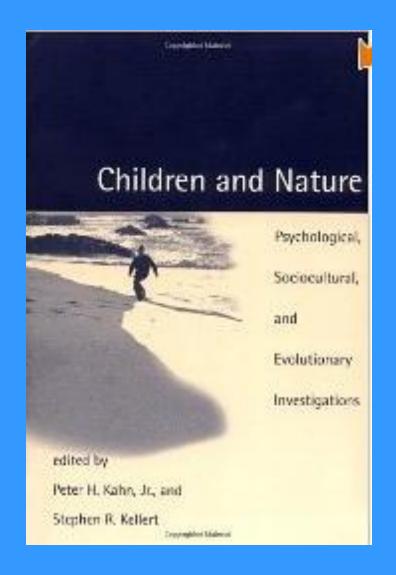
PHYS ED | MARCH 27, 2013, 12:01 AM | ₱ 93 Comments

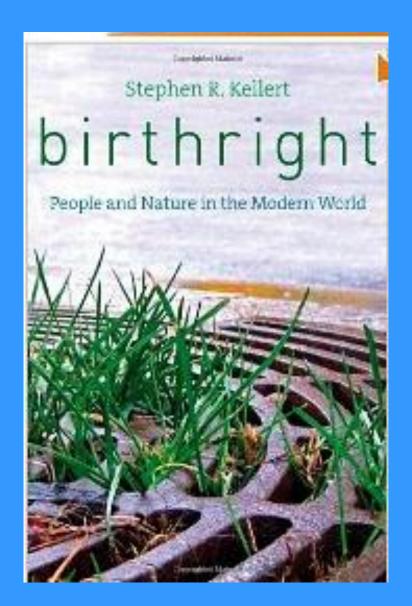
Easing Brain Fatigue With a Walk in the Park

By GRETCHEN REYNOLDS



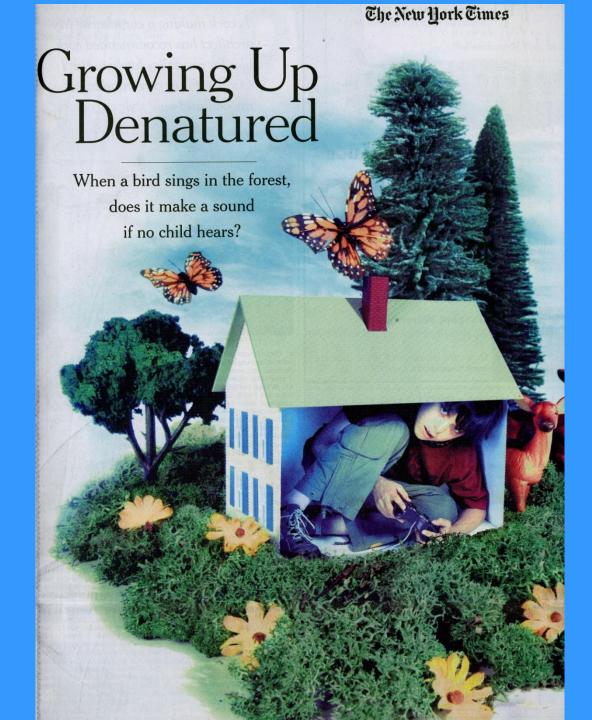
Brick House Pictures/Getty Images





"I like to play indoors better 'cause that's where all the electrical outlets are,"

-fourth grader.





MANAGEMENT AND REAL PROPERTY OF THE PARTY OF

FOLICY STATEMENT

The Built Environment: Designing Communities to Promote Physical Activity in Children

CHICAGORING PRINCIPLE TO CHICA SHO Defination Child Health Con-Series works Improve the Health of All Children

Committee on Protein property Bloods

An estimated 12% of American disidien are mercenglic, and physical macrosity contributes to this high presidence of overeeight. This policy statement highlights. how the bulk custominent of a community affects children's opportunities for physical activity. Neighborhoods and communities can provide apportunities for recognitional physical activity with parks and open spaces, and policies must support this capacity. Children can engage in physical activity as a part of their dully lives, such as on their travel to school. Eactors such as school location have played a significant role in the decreased rates of walking to achool, and changes in a silesmay help to increase the number of children who are able to walk to achoof. invironment modification that addresses risks associated with automobile radiic is: hipsily to be conducted to more walking and bilance among children, actions that relace parental perception and fear of crime may promote stations physical autistic Policies that pinnorie noire active lifestyles among children and adulescents will enable them to achieve the recommended 60 minutes of daily physical activity. By working with community partners, pediatricians can participate incombining communities designed for activity and health. Politicity 2009:123: 1591-1598

A child's life is affected by the environment in which he or she lives. Relationships between health and the quality of air, water, and food are well recognized. ***The physical environments of the home and school also influence health through exposures to lead, smold, molec, or ambient light, in addition, the overall structure of the physical environment of a child's community indicated to as the "bun't environment"; can also affect health in dwesse ways.

As due; have expanded our rural area. Increments of land have been frequencly transformed into less density developments in a "legislator" manner. The resolution urban surged can increase automobile travel, which in treases air pollution" as well as glassenger and pedesutan traffic fatalities." Some other areas may have few supermarkets, produce stands, or community gardens, thereby luming access to fresh forth and regetables." The physical environment of a community can support apportaintes for july, an executal component of didd development $\hat{\mathcal{P}}$ and in physical armony, a health behavioù that int only reducës risk of eures weight gare v≅ hut also has many other benefits for overall well-being.

Many factors influence a child's level of physical activity, including individual-level psychosocial factors such as self-efficiety***) family factors such as parental support*; and larger-reals factors such as social norms?" Although these are all important contributors, this policy entenness is limited to focusing on how the physical design of the community affects children's opportunities for physical activity. Opportunities for recreational physical activity arise with parks and green spaces. "Utilitarias" physical activity, such as walking or bicycling to school and to other activities, is an equally important part of a child's daily life. Environments that promote more active libertyles among chaldren and adolescents will be important to enable them to achieve recommended levels of physical activity.

The term "built environment" refers to spaces such as buildings and streets that are deliberately constructed as well as outdoor spaces that are altered to some way by human activity. This term may be unfamiliar to most clinicians, but with the high prevalence of childhood overweight and obdity." the subject is increasingly relevant.

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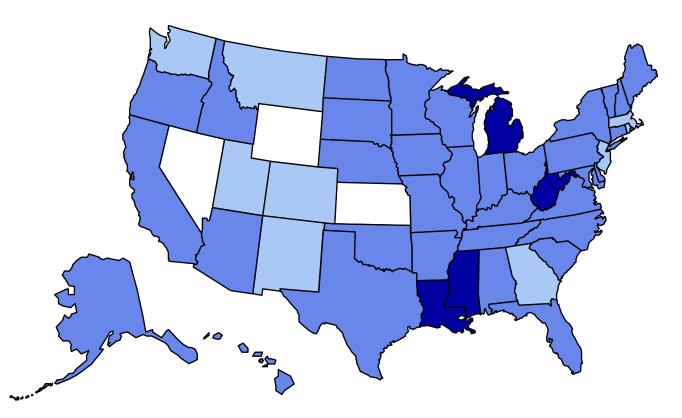
Kee Shorter

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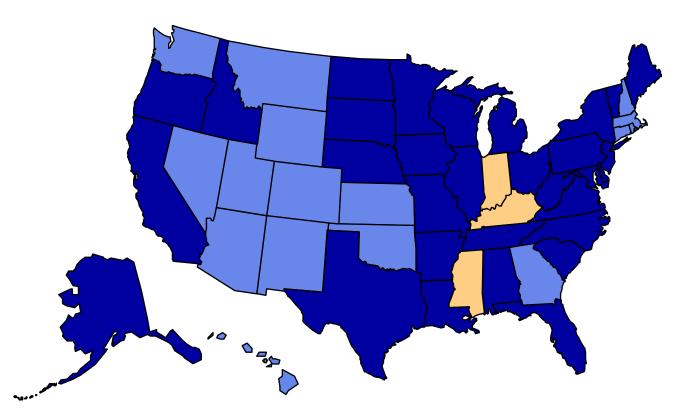
- The Built **Environment:** Designing Communities to Promote Physical Activity in Children
- Policy Statement American Academy of Pediatrics
- June 2009

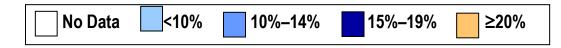
BRFSS, 1991 (*BMI ≥30, or ~ 30 lbs. overweight for 5′ 4″ person)



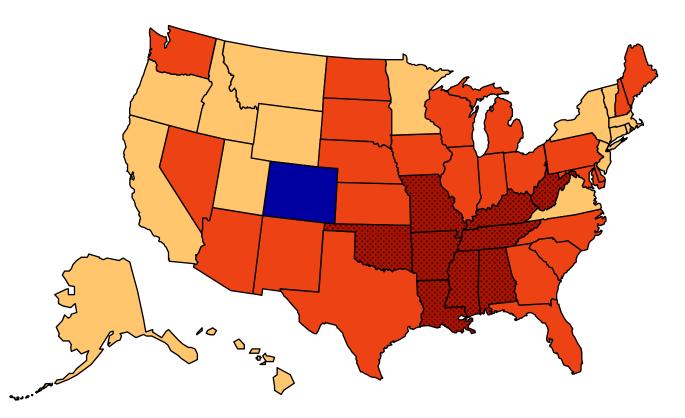


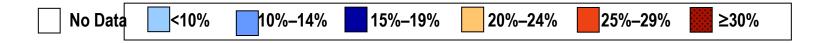
BRFSS, 1997 (*BMI \geq 30, or \sim 30 lbs. overweight for 5' 4" person





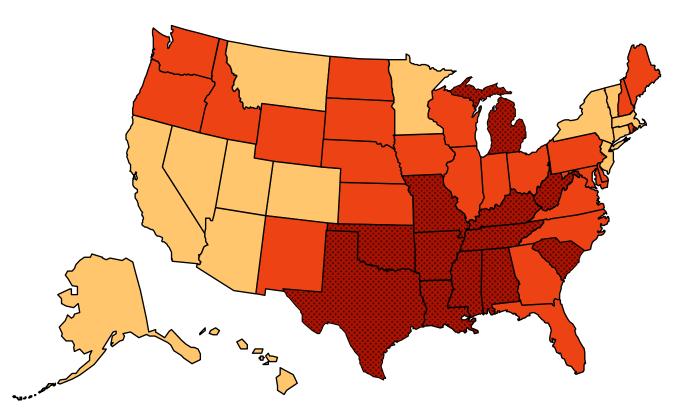
BRFSS, 2009 (*BMI \geq 30, or \sim 30 lbs. overweight for 5' 4" person)

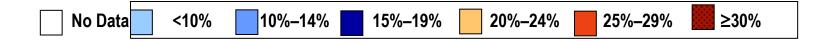




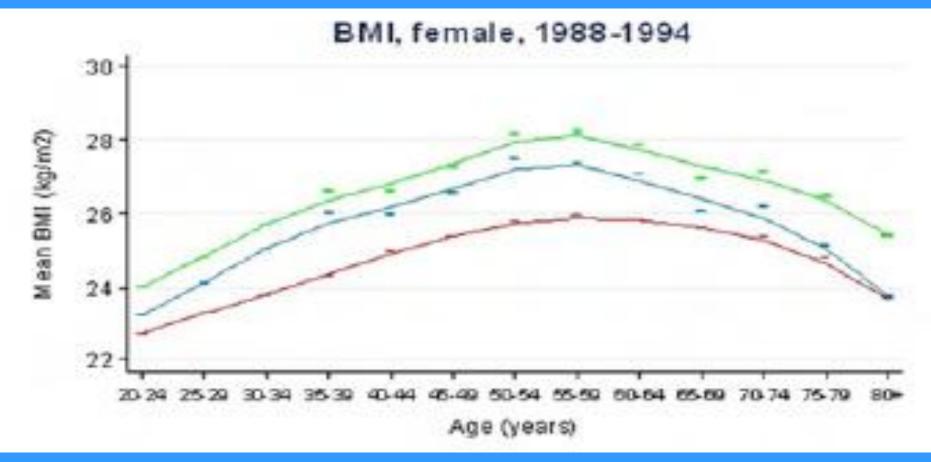
BRFSS, 2010

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





Body Mass Index US Females 1988-1994

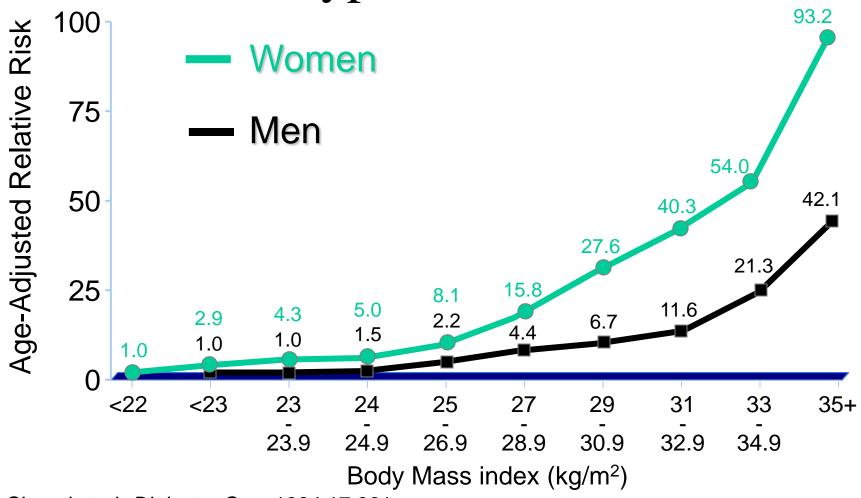


NHANES -- Measured

NHANES – In person interview-- self-reported

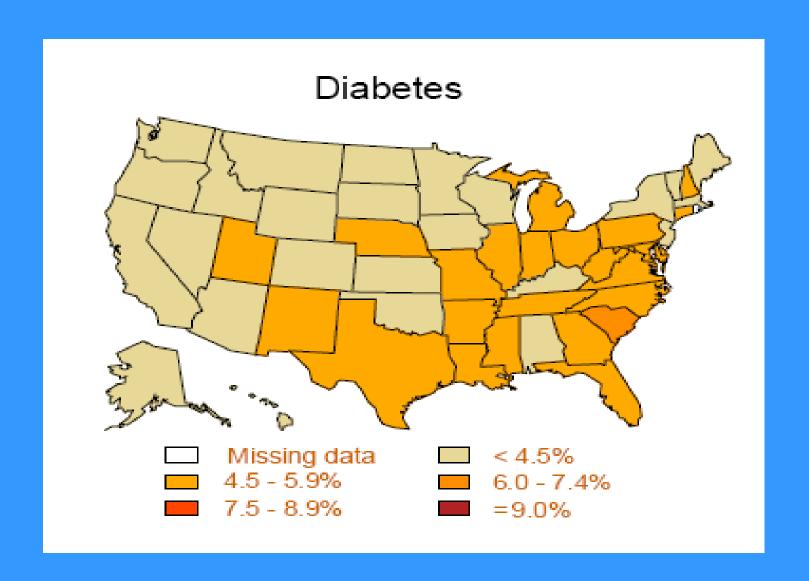
BRFSS – Telephone Interview

Relationship Between BMI and Risk of Type 2 Diabetes

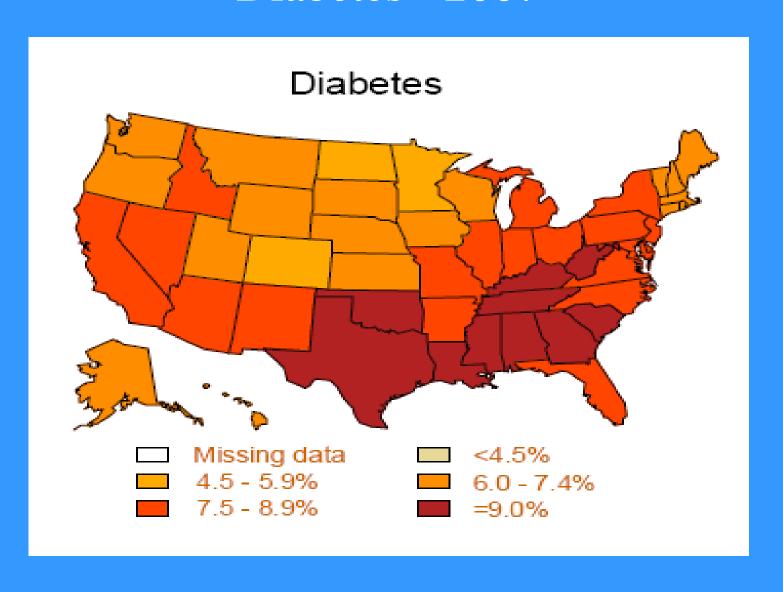


Chan J et al. *Diabetes Care* 1994;17:961. Colditz G et al. *Ann Intern Med* 1995;122:481.

Percentage of US Adults with Diagnosed Diabetes - 1994



Percentage of US Adults with Diagnosed Diabetes - 2007

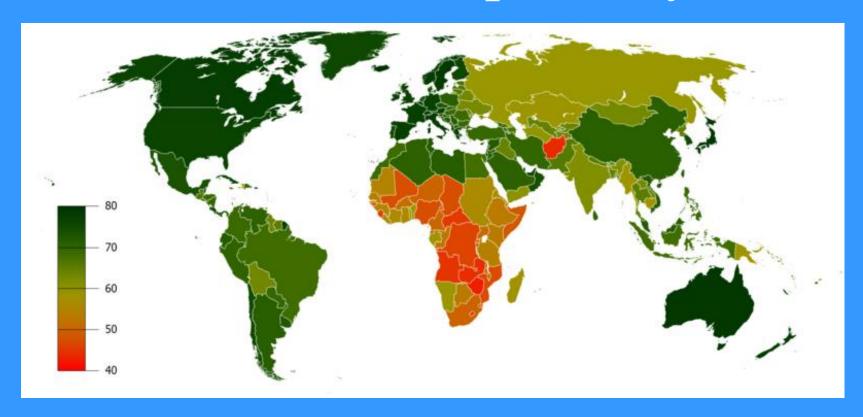


U.S. "Health" Care Expenditures as Percent of



Keehan et al: *Health Affairs* March/April 2008 27: 145-155

Male Life Expectancy



US Life Expectancy is #49 Worldwide – CIA Chartbook

"The Status of Baby Boomers" Health in the United States: The Healthiest Generation?"

JAMA Internal Medicine February 4, 2013

RESEARCH LETTER

ONLINE FIRST

The Status of Baby Boomers' Health in the United States: The Healthiest Generation?

rom 1946 through 1964, 78 million children ("baby boomers") were born in the United States. In 2010, baby boomers made up 26.1% of the Upopulation. Medicine has improved significantly during baby boomers! lifetimes. Although these advantages have led to a progressively increasing life expectancy, previous studies have shown mixed results regarding whether baby boomers are healther than prior generations. The present study examined the health status of aging baby boomers relative to the previous generation to provide a vitally important context for health work-force and policy planning in the coming years.

Methods. We analyzed data from the National Health and Nutrition Examination Survey (NHANES), including NHANES III (1988-1994) (for previous generation) and the NHANES for 2007 to 2010 (for baby boomers), focusing on respondents who were aged 46 to 64 years during either period. The 2 cohorts were compared with regard to health status, functional and work disability, healthy lifestyle characteristics, and presence of chronic disease. Purther details of the methods can be found in the eAppendix (http://www.jamainternalmed.com).

Results. The demographic characteristics of the cohorts were very similar except for the proportions in each racial/ ethnic group, with greater proportions of non-Hispanic blacks (11.3% vs 9.4%) and Hispanics (9.8% vs 3.7%) in the 2007-2010 group compared with the 1988-1994 group (P<.001). The mean (SD) ages were 54.1 (0.03) years in the 2007-2010 group and 54.5 (0.03) years in the 1988-1994 group; there was no difference in sex between the 2 cohorts (49.1% male [2007-2010 group] vs 47.5% male [1988-1994 group]). Overall health status was lower in baby boomers, with 13.2% reporting "excellent" health compared with 32% of individuals in the previous generation (P < .001). Of the sampled haby boomers, compared with the previous generation, 6.9% vs 3.3% used a walking assist device (P < .001), 13.8% vs 10.1% were limited in work (P=.003), and 13.5% vs 8.8% had a functional limitation (P<.001).

With regard to healthy lifestyle factors, obesity was more common among baby boomers GB.7% obese vs 29.4% [previous generation]; P<.001) (Figure), and regular exercise was significantly less frequent (33.0%. vs 49.9% exercise > 12 times per month; P < .001); more than half of baby boomers reported no regular physical activity (32.2% vs 17.4%; P < .001). Moderate drinking was higher in the baby boomer cohort compared with the previous generation (67.3% vs 37.2%; P < .001). There were fewer current smokers in the baby boomer cohort than in the previous generation (21.3% vs 27.6%; P < .001).

The percentage of individuals with hypertension (Pigure) was more common among haby boomers than among individuals from the previous generation (43.0% vs 36.4%; P < .001), as was the percentage of individuals who take medication for hypertension (35.4% vs. 23.2%; P < .001). Among baby boomers, hypercholesterolemia was more common (73.5% vs 33.8%; P < .001 [Pigure]), and medication use for hypercholesterolemia was more than 10 times greater (23.9% vs 1.5%; P < .001). Baby boomers were also more likely to have diabetes (15.5% vs 12.0%; P=.003 [Figure]) and take medication for diabetes (11.3% vs 0.2%; P < .001). The slight trend toward higher prevalence of cancer in baby boomers vs the previous generation was not significant (10.6% vs 9.5%; P=.25). The frequency of emphysema decreased in the baby boomer generation (2.3%) relative to the previous generation (3.5%) (P=.03). Baby boomers were also less likely to have had a myocardial infarction (3.6%) compared with the previous generation (5.3%)

A logistic regression was conducted to control for changes in demographic characteristics (age, sex. race,

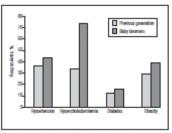


Figure. Proportion of each cohort flowly bossners and previous generations of each 40-40 years. Proportion of each cohort flowly in this 1988-1994 and 2007-2010 MAMES. The difference between cohorty in this 1988-1994 and 2007-2010 MAMES. The difference between cohort was the facility significant for production of the proportion of each other (P-2001), they exclude the relief of the proportion of individuals with our accordance and the proportion of individuals with our accordance and only many ratios of 2010 (accordance to weight in flowly many displayed in markets squared). NAMES indicates National Health and Natrition Examination Fourwey.

JAMA INTERN MED. PUBLISHED ONLINE PERRUARY 4, 2013 WWW.JAMAINTERNALMED COM

02013 American Medical Association. All rights reserved.

Overall Health Status US

Persons Aged 46-64

NHANES 1988-1994

NHANES 2007-2010

Report "excellent" health

32%

13%

"Functional Limitation"

9%

14%

Using Walking Assist (wheelchair, cane, etc)

3%

7%

"Lifestyle Factors" US Persons Aged 46-64 (NHANES)

1988-1994

2007-2010

Smoking

28%

21%

Obesity

29%

39%

"Lifestyle Factors" US Persons Aged 46-64 (NHANES)

1988-1994 2007-2010

Smoking

28% 21%

Obesity

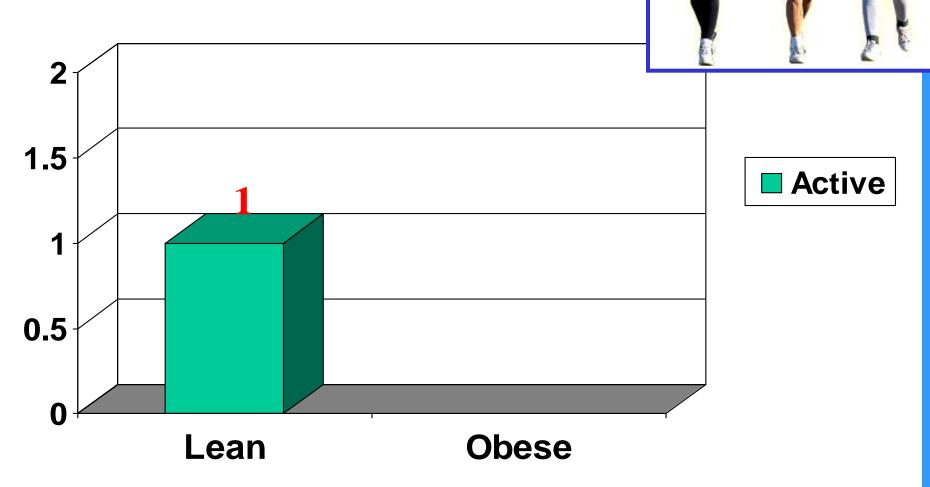
29% 39%

No Regular Physical Activity

17% 52%

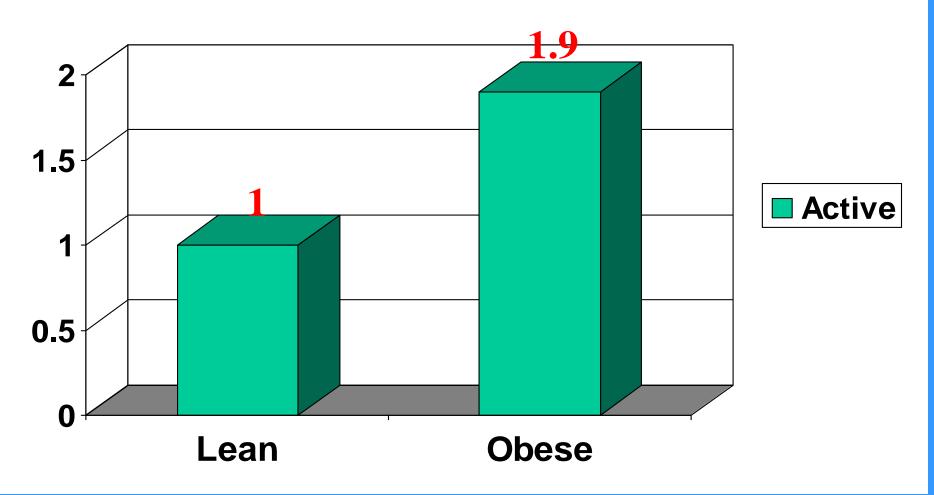
Nurse Study 1976-2000

Risk of Death



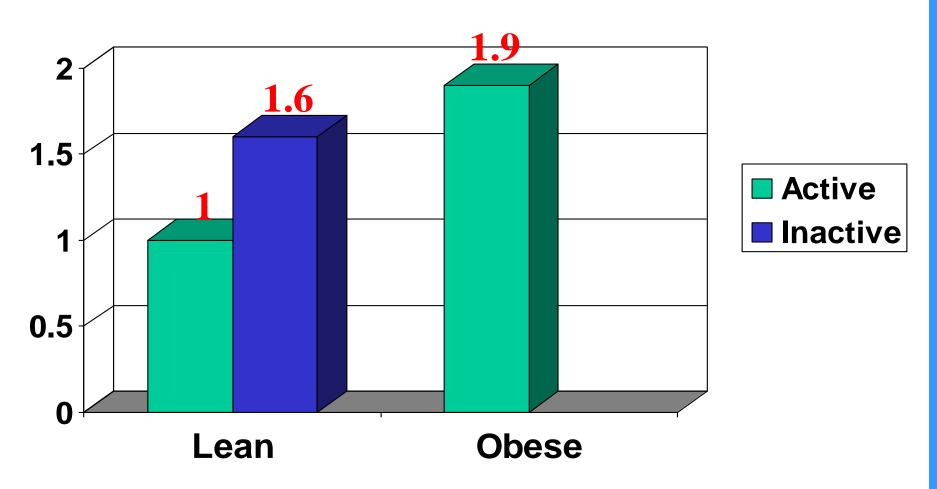
Nurse Study 1976-2000

Risk of Death



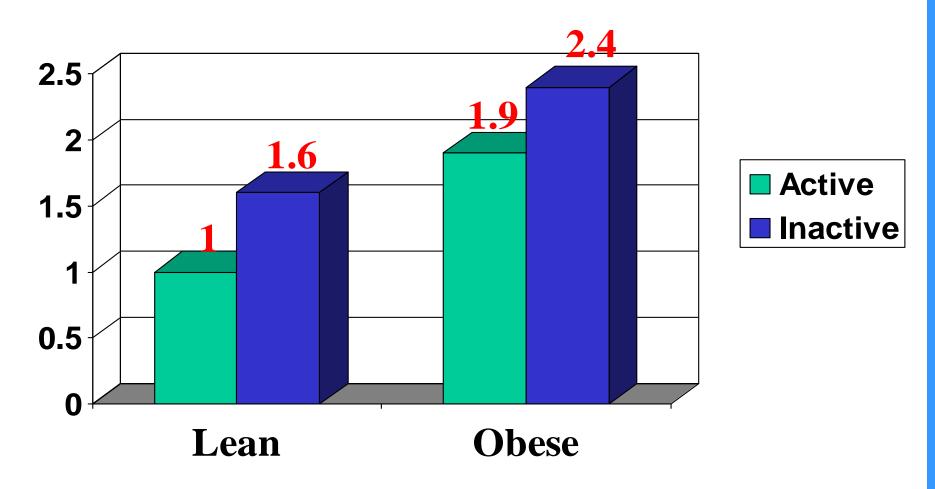
Nurse Study 1976-2000

Risk of Death



Nurse Study 1976-2000

Risk of Death



Gain in Longevity for a 45-Year Old Male

Years of added life



Additional years of Life:

Moving from Low to Moderate Fitness -- 5.8 years From Low to High -- 8.7 years.

"Old" Schools





Credit: Hummel Architects, Boise, ID

Schools

- Since World War II
 - Average School Size
 - grew fivefold, from 127 to 653 students
- Number of Schools declined 70%





Credit: Constance E. Beaumant, NTHP

We have changed how much we walk or bike

- Percent of children who walk or bike to school:
- 1974 → 66%
- 2000 \rightarrow 13% (CDC, 2000)





Fitness of California Children

Annual Fitnessgram Results

Conducted in Grades 5, 7, and 9

Measures 6 major fitness areas

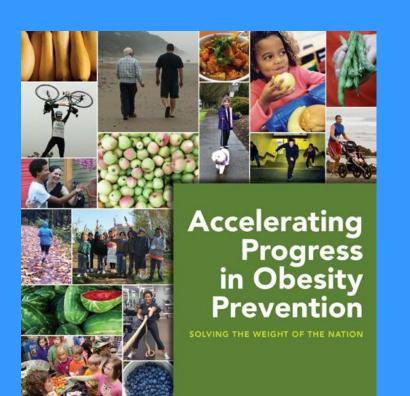
(e.g. aerobic capacity, body composition, flexibility)

2011 Results: Who passed all standards?

Grade 5: 25%

Grade 7: 32%

Grade 9: 37%



Institute of Medicine Report Accelerating Progress in Obesity Prevention May 8, 2012

Goal 1: Make physical activity an integral and routine part of life.

Recommendation 1: Communities, transportation officials, community planners, health professionals, and governments should make promotion of physical activity a priority by substantially increasing access to places and opportunities for such activity.

Strategy 1-1: Enhance the physical and built environment.

Communities, organizations, community planners, and public health professionals should encourage physical activity by enhancing the physical and built environment, rethinking community design, and ensuring access to places for such activity.



Complete Streets Bring Equity to Community and Transportation

- Complete Streets
 - social equity, aesthetics, walking, improved local sales, community building



Healthy by Design: A Public Health and Land Use Planning Workbook



Sonoma county:
 General Plan - Policies that
 Address Public
 Health Threats

APHA National Meeting 2002-2003 Abstracts with "land use" - 0

2002 2003

Search Results	
Search for: land use Match: All words ▼ Sort by: Relevance ▼ search instructions	
Restrict to (Search everything) E-ssential Learning Recorded Presentations Virtual Expo	Search Results
	Search for: land use Match: All words ▼ Sort by: Relevance ▼ search instructions (Search everything) E-ssential Learning Recorded Presentations Virtual Expo

A Big Shift in Public Health's Awareness of Built Environment as a Core Determinant of Health

2011 APHA Annual Meeting

"land use" 102 matches



"built environment" 182 matches

Healthy Communities PROMOTE Healthy Minds & Bodies APHA 139TH ANNUAL MEETING AND EXPOSITION OCT 29 - NOV 2, 2011 WASHINGTON, DC	
You may search for particular presentations by typing key words, an author's name, or the title in the box below.	
Search: built environment All words ▼ Search	
Found 182 matches Displaying 1 to 10 [1][2][3][4][5][6][7][8][9] [10 more page(s)].	
Systematic assessment of built environment disparities: The Multnomah County Built Environment Atlas project Browse by Program Author Index Disclosure Index Browse Handouts Click to Register for the meeting now 241925 Systematic assessment of built environment.	

disparities: The Multnomah County Built Environment Atlas project Monday,

October 31, 2011: 10:48 AM Betsy Clapp, MPH, Health ...



Bicycle Rental Area Outside Union Station Washington, DC



Two Police "vehicle" parked durng lunch





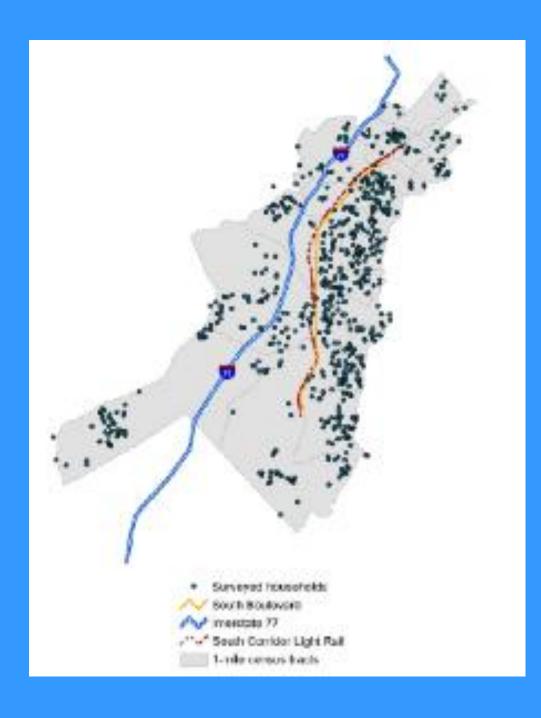
- Segway Personal Transporter
 - \$5000 and up
 - Average ~200 kcal/hr

- Cost of Police Mountain Bike
 - \$700-1000
- Average ~ 650/kcal/hr

Charlotte, NC, Light Rail Opened November, 2007







Interviewed People at 839 Locations years before and after Charlotte Light Rail Service Began

The Effect of Light Rail Transit on Body Mass Index and Physical Activity

John M. MacDonald, PhD, Robert J. Stokes, PhD, Deborah A. Cohen, MD, MPH, Aaron Kofner, MS, Greg K. Ridgeway, PhD

Background: The built environment can constrain or facilitate physical activity. Most studies of the health consequences of the built environment face problems of selection bias associated with confounding effects of residential choice and transportation decisions.

Purpose: To examine the cross-sectional associations between objective and perceived measures of the built environment; BMI; obesity (BMI>30 kg/m²); and meeting weekly recommended physical activity (RPA) levels through walking and vigorous exercise. To assess the effect of using light rail transit (LRT) system on BMI, obesity, and weekly RPA levels.

Methods: Data were collected on individuals before (July 2006—February 2007) and after (March 2008—July 2008) completion of an LRT system in Charlotte NC. BMI, obesity, and physical activity levels were calculated for a comparison of these factors pre- and post-LRT construction. A propensity score weighting approach adjusted for differences in baseline characteristics among LRT and non-LRT users. Data were analyzed in 2009.

Results: More-positive perceptions of one's neighborhood at baseline were associated with a -0.36 (p < 0.05) lower BMI: 15% lower odds (95% CI=0.77, 0.94) of obesity: 9% higher odds (95% CI=0.99, 1.20) of meeting weekly RPA through walking, and 11% higher odds (95% CI=1.01, 1.22) of meeting RPA levels of vigorous exercise. The use of LRT to commute to work was associated with an average -1.18 reduction in BMI (p < 0.05) and an 81% reduced odds (95% CI=0.04, 0.92) of becoming obese over time.

Conclusions: The results of this study suggest that improving neighborhood environments and increasing the public's use of LRT systems could provide improvements in health outcomes for millions of individuals.

(Am J Prev Med 2010;39(2):105-112) @ 2010 American Journal of Preventive Medicine

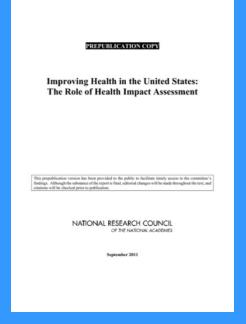
- Significant increase in meeting the weekly Recommended Physical Activity
- ... through walking
- ...and through vigorous exercise

- The use of Light Rail Transit to commute to work was associated with an average reduction of 1.18 BMI points (p<0.05) and 81% reduced odds of becoming obese over time.
- For a person who is 5'5" --equivalent to a relative weight loss of 6.45 lbs.

The Need for Health Impact Assessment (HIA)

• Big decisions are made without examining potential health impacts (both positive and negative) over the life cycle.





Cooper River Bridge Charleston SC

• If you build a walkway on a major bridge, how many pedestrians and bicyclists will use it?



Walkway on Cooper River Bridge, Charleston SC





• The Chenoggye freeway ran through the center of Seoul ~1970-2005



- Cheonggyecheon -- 8.4 km long downtown Seoul, South Korea.
 - The \$900 million project initially attracted much public criticism.

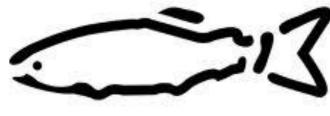




NO DUMPING



NO DUMPING

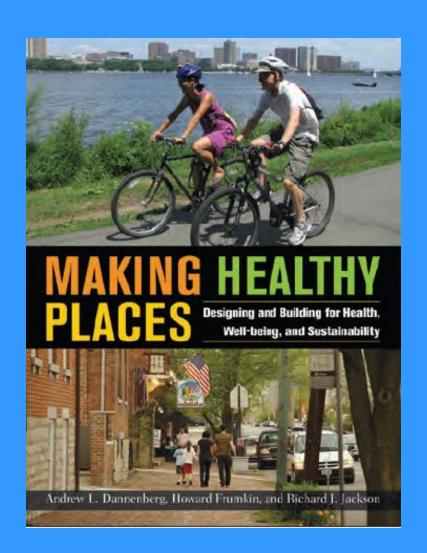


DRAINS TO BAY

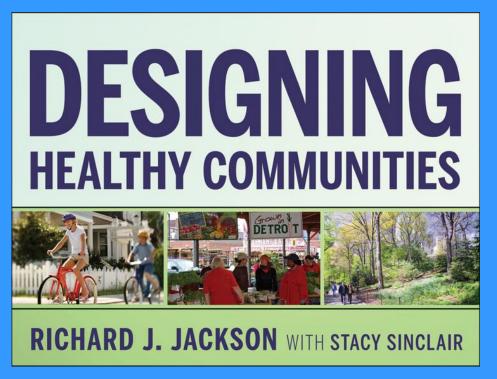


Photo: Carlton Reid via Flickr, Art: Peter Drew

http://www.grist.org/article/2010-08-26-when-streets-tell-the-truth-about-people-riding-in-cars-bikes/



We Are What We Eat, and... We Are What We Build!



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