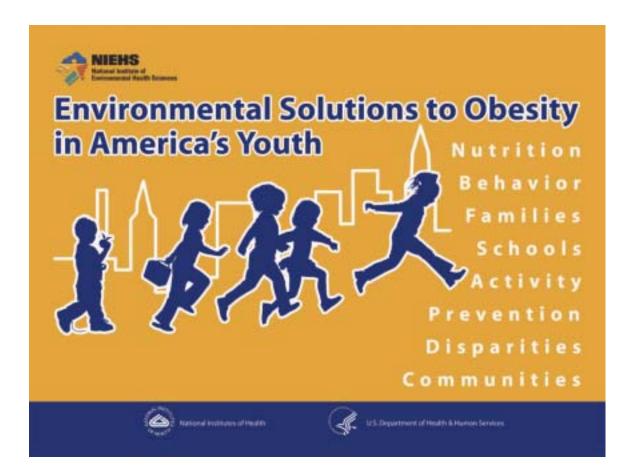
SUMMARY REPORT



June 1-2, 2005 The Washington Convention Center, Washington, DC

http://www.niehs.nih.gov/drcpt/events//oe2005/

Edited by: Ms. Charle A. League and Allen Dearry, Ph.D.; Division of Research Coordination, Planning and Translation; National Institute of Environmental Health Sciences.

Acknowledgements to: Mr. Ernie Hood, Ms. Angie Sanders, Ms. Donna Shields, Ms. Tonya Stonham, Mr. David Kerley, Mr. Pete Cozart, Mr. John Maruca, and Mr. Eric Steele for their assistance in the preparation and finalization of the report.

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October 2005

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Suggested Citation:

League C A, Dearry A. Environmental Solutions to Obesity in America's Youth. National Institute of Environmental Health Sciences/National Institutes of Health, Research Triangle Park, NC: Division of Research Coordination, Planning and Translation. October 2005

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EXECUTIVE SUMMARY

More than 700 researchers, national policymakers and community leaders, nutritionists and health care providers, urban planners and architects, food and media industry representatives, and other experts gathered June 1-2, 2005, in Washington, DC, for the *Environmental Solutions to Obesity in America's Youth* meeting. The objectives of the conference were to explore the complex interactions between the environment and soaring childhood obesity rates, and to contribute to the identification, evaluation, and dissemination of information on initiatives and interventions that have shown success at increasing physical activity and enhancing healthy eating habits among children. The NIEHS sponsored the conference, with support from the Robert Wood Johnson Foundation.

This was the second workshop on obesity sponsored by the Institute. Last year's meeting, *Obesity and the Built Environment: Improving Public Health Through Community Design*, was focused primarily on the establishment of a multidisciplinary research agenda aimed at expanding and increasing the knowledge base in the area to contribute to evidence-based interventions. This year, with the epidemic in childhood obesity continuing to grow at an alarming rate, participants agreed that although more research is vital, the problem has reached the status of national public health crisis, and immediate action at all levels of society is necessary to at least begin to slow the rate of growth in the incidence of childhood obesity and overweight. As several speakers attested, actions should be taken now based upon the best currently available evidence, rather than waiting for the best possible evidence to emerge. Through constant evaluation and refinement, it should be possible to develop interventions that will slow or reverse the trends that now threaten to make this generation of young people the first in memory to have expectations of a shorter life span than their parents.

Our goal for this national conference is for each of you to share your experiences and perspectives. It's important that we determine which of our environmental interventions work, and which are simply unnecessary. Let's decide how to improve our environment for our children.

Dr. David Schwartz, Director, NIEHS

Calls to Action

Following Dr. Schwartz's welcome, the conference began with remarks from several distinguished speakers, each of whom expressed their agencies' concerns about childhood obesity, and their efforts to combat it.

Dr. Julie Gerberding, Director of the Centers for Disease Control and Prevention (CDC), discussed the CDC's recent reduction of its estimated number of deaths directly associated with obesity. She emphasized that the revision incorporates new data reflecting improved treatments in cardiovascular disease and cancer, but should in no way diminish or compromise the central, urgent message that obesity in America's young people is causing a host of morbidities and decreased quality of life today, and could foreshadow a greatly increased disease burden to our society and increased risk of premature death in the future. "The numbers we would like people to focus on are the number of calories they take in every day, and the number of steps they take every day," she said. "Because those are the numbers that we know matter, and our evidence base indicates that those are the elements that are most relevant to the problem we're trying to solve."

The importance of increasing opportunities for young people to engage in physical activities, whether through organized sports or simply walking or bicycle riding, was the key message related by former NFL star Lynn Swann, who is now the Chairman of the President's Council on Physical Fitness and Sports. "Physical activity is a major piece of the prevention puzzle that leads to healthier lifestyles and a better quality of life," he said. "If we can get more Americans to be physically active starting as children, then we'll have fewer people suffering from Type 2 diabetes, young kids suffering from stress unnecessarily, and certainly get them off the payroll in terms of the cost of health care. We're trying to create a lifestyle of physical activity."

US Surgeon General Vice Admiral Richard Carmona has declared 2005 the Year of the Healthy Child, and told attendees that he is particularly concerned about the roles of prevention and translation in efforts to combat childhood obesity and overweight, both of which involve changing behaviors. "Our culture has changed over a half century – we can track it – and now we appreciate the untoward consequences of a sedentary lifestyle and eating indiscriminately," he said. "How do we take that good science, package it in a culturally competent manner, deliver it to hundreds if not thousands of diverse populations that make up this country, in order to do one thing: to change behavior in order to reduce morbidity and mortality, increase health and wellness, and improve quality of life?"

Rounding out the keynote addresses, Secretary Michael Leavitt of the US Department of Health and Human Services delineated the broad array of activities underway at the federal level to address the childhood obesity epidemic, including \$440 million in research funding across the institutes within the National Institutes of Health. He also took the opportunity to announce the launch of a major new trans-NIH initiative called *We Can!* (Ways to Enhance Children's Activity & Nutrition). "The campaign will

prevent overweight and obesity, specifically among youth aged 8 to 13. *We Can!* provides resources and community-based programs for parents, caregivers, and youth that focus on encouraging healthy eating, increasing physical activity, and reducing sedentary time."

We look forward to learning what's working, what the evidence base really is, and how we can replicate success stories quickly and broadly across America. Dr. Julie Gerberding, Director, Centers for Disease Control and Prevention

Obesity in Youth: Basic Facts, Issues, and Implications

The first order of business as the working sessions of the conference got underway was to establish the scope of the challenge by outlining the current state of knowledge about obesity in America's youth.

In 2004, the Institute of Medicine Committee on Prevention of Obesity in Children and Youth released a report titled *Preventing Childhood Obesity: Health in the Balance*. Representing the committee, Dr. Ross Brownson of the St. Louis University School of Public Health summarized the report's findings for conference attendees.

Approximately nine million American children over six years of age are currently considered to be obese, with a body mass index (BMI) equal to or greater than the 95th percentile of the CDC's age- and gender-specific BMI charts. Prevalence is growing exponentially: since the 1970s, obesity has doubled for preschool children aged 2-5 years and for adolescents aged 12-19 years. The rate has tripled in children aged 6-11 years in that time period. Clearly, an epidemic of childhood obesity is upon us.

The IOM report characterizes childhood obesity as a "serious nationwide health problem requiring a population-based prevention approach." It includes a wide-ranging action plan, with specific recommendations in several key arenas. First, obesity prevention should be a national public health priority with government at all levels providing coordinated leadership. Additionally, needed actions are delineated to create a healthy marketplace and media environment, healthy communities, healthy school environments, and healthy home environments. Research priorities should include evaluation of interventions, behavioral research on how to change dietary and physical activity habits, and community-based research. The ultimate goal is simple: in children, to maintain energy balance – energy intake equaling energy expenditure – while protecting health, growth and development, and nutritional status. The committee recognizes, however, that even with the comprehensive approaches it urges, "it will take years to decades to reverse this trend."

Preventing childhood obesity is a collective responsibility...The key will be to implement changes from many directions and at multiple levels. Preventing Childhood Obesity: Health in the Balance (IOM, 2004) The health consequences of childhood obesity are just as alarming as the growing prevalence. As several speakers at the conference commented, Type 2 diabetes and hypertension in young people were once clinical rarities, but today such presentations are all too common. Obese youth are prone to morbidities and reduced quality of life in the present; in the future they are at high risk for premature mortality.

Dr. Jeffrey Schwimmer of the University of California, San Diego, reported on several of the most recent studies examining health risks in obese youth. In a longitudinal study that tracked more than 200,000 teenagers for 30 years, overweight adolescent boys were 80% more likely to die during that time period than their normal weight counterparts. Overweight girls were 100% more likely to die.

Excess fat can manifest physically in two ways, each with its own adverse outcomes. An excess *amount* of fat cells tends to result in social, respiratory, gastrointestinal, and/or musculoskeletal problems. Quality of life and other measures of psychosocial functioning may be significantly impaired. Obstructive sleep apnea is also a major problem, occurring in 15-20% of obese children – six times the rate of normal weight youth. Gastroesophageal reflux disease, which can lead to cancer in some cases, is also common, as are skeletal maladies owing to excess weight, particularly in children's hips and knees.

When fat cells are increased in *size*, metabolic and inflammatory conditions are often the result, with consequences for the heart, kidneys, and liver. One study found that 19-30% of obese children aged 5-11 had elevated blood pressure, with the rates higher in boys than in girls, and higher in blacks than in whites. The obese children were also far more likely than normal weight children (11% vs. 1-2%) to be diagnosed with hypertension as the result of three elevated blood pressure readings. Roughly half of obese children were found to have abnormalities in lipid factors.

Endocrine issues such as insulin resistance, impaired glucose tolerance, and Type 2 diabetes are also common in obese youth. These cardiovascular and metabolic problems can often result in the condition called the metabolic syndrome. According to Schwimmer, "the metabolic syndrome may be what underlies much of the morbidity and mortality related to obesity. How common is the metabolic syndrome? In normal weight adolescents, it's virtually nonexistent: .1%. In overweight adolescents, it's about 10%, and in obese adolescents, it's close to 30% who have the metabolic syndrome."

Liver and kidney abnormalities are also quite common. These conditions can cause damage leading to increased risk of cancers later in life.

The evidence is clear that obesity early in life can be devastating to health, both in the short and long terms.

From my perspective, what we need to do is create a bridge. Many of the more than 9 million obese children in this country already have health problems, and many of them will continue to have health problems, and there's nothing any of us in this room can do to make that number smaller overnight. So we need to allow these children, regardless of what their weight, shape or size is, to be healthy. This is what we need to think about in terms of the environment – not only preventing obesity, but how all these obese children are going to be healthy.

Dr. Jeffrey Schwimmer, University of California, San Diego

Targeting population-based environmental interventions will be challenging as the battle against childhood obesity progresses. One way to maximize effectiveness will be to identify and locate the groups at the highest risk. Dr. Adam Drewnowski of the University of Washington is using Geographic Information Systems (GIS)-based methodologies to uncover associations between obesity and socioeconomic characteristics by mapping the distribution of obesity rates at a fine geographic scale and correlating the data with measures of disparities in food access, cost, property values, and other variables. In his geocoding studies of Seattle/King County, Washington, he discovered marked differences in obesity rates according to the indicators. For example, obesity rates in the neighborhoods with the highest property values (a proxy measure of wealth) were approximately 5%. In the lowest value neighborhoods, the obesity rate was 30% - a six-fold increase. "These are huge differences, huge disparities," said Drewnowski, "and are linked not only to education and income, but also to neighborhood and area resources."

It is difficult to promote healthier foods and healthy activity choices among all populations. The populations at most risk for obesity are those with the fewest resources – not only the fewest individual resources, but the neighborhoods in which they live have lower resources as well. And so the challenge before us is to devise environmental solutions that will take the environmental and neighborhood factors into account. Dr. Adam Drewnowski, University of Washington

Environment and Childhood Obesity

Urban sprawl has been identified as one of the major environmental factors contributing to obesity in Americans. Sprawl tends to limit opportunities for physical activity in adults and children alike, as unfettered development gives rise to residential areas at distances that require automobile travel to destinations such as businesses, schools, and restaurants. Increased traffic congestion and a lack of sidewalks and bike paths have made pedestrian travel unsafe or impractical in many areas. The "smart growth" movement seeks to help communities reverse these trends by encouraging mixed land use, preservation of open spaces, increased access to parks and recreation, and investment in transportation choices that will enhance physical activity.

Former Maryland Governor, Parris Glendening, is now President of the Smart Growth Leadership Institute, and a leading advocate of smart growth. Citing data that shows that the most sprawling counties in America are also its heaviest, with populations most likely to have high blood pressure and heart disease, he said it's clear that sprawl is contributing to our individual and collective weight gain, and to many of our health problems as a nation. "Most Americans now live in places where you cannot buy a quart of milk without getting into a 2,000-pound car; where your children cannot play in a 40-minute soccer game without sitting in the car for a half-hour each way; where open space, farmlands, and forests are being gobbled up by haphazard, poorly planned development; where office, shopping and residential areas are segregated by large distances; and where older urban areas and inner ring suburbs are being deserted for more cheaply built newer developments that stand in former bean fields. This is sprawl, and this in fact is killing Americans," Glendening told attendees.

Changes in policies and regulations that will limit sprawl and enhance smart growth will be the critical factors in increasing opportunities for physical activity, according to Glendening. He discussed some of the smart growth measures he sponsored toward that end during his tenure as governor of Maryland, and now promotes in communities across the country. "We're urging people to make a fundamental shift in thinking about the environment," he said, "and urging policymakers to stop and think beyond the immediate framework of whatever policy decision they're trying to make."

Once we understand and articulate the causes of sprawl and haphazard development, there are literally hundreds of critical policy changes that we can make in our communities. I strongly encourage you to work with your federal, state and local officials to change the policies that favor sprawling, haphazard, thoughtless development. We must find those policies that make it easy to throw up new strip malls in corn fields and change those policies.

Governor Parris Glendening, President, Smart Growth Leadership Institute

Glendening's assertion that urban sprawl is associated with adverse health effects was supported by findings presented by Dr. Roland Sturm, a Senior Economist with RAND. His recent national study on the impact of sprawl in the development of chronic health conditions showed that sprawl has a substantial independent effect associated with increased prevalence of chronic conditions such as asthma, diabetes, hypertension, stroke, heart disease, and cancer. The study also suggested a relation between sprawl and reduced walking and higher BMI. It did not, however, uncover a direct link between sprawl and differential weight gain among children. Sturm speculated that other factors such as individual and family habits, school environments, and local food prices could be more influential.

Food portion size and the overall amount of consumption are important contributors to weight gain, and may be an environmental factor that can be changed in the family, school, and restaurant settings. Dr. Brian Wansink of Cornell University showed that unconscious perceptual cues wield a strong influence on how much food people eat. His studies have revealed that the size of a package, the shape of a glass or bowl, the words on a menu or label, proximity to food, and other "hidden persuaders" can all cause us to eat or drink more without realizing it. With today's children typically exercising less and

consuming more calories, Wansink suggested that the fight against childhood obesity begin at home, by taking simple steps such as using smaller bowls, plates, glasses and utensils to make the home a less "fat-prone" environment.

Government in Action

As session moderator Governor Glendening pointed out, government has an important role to play in the fight against childhood obesity. Leadership can come from the top down, from the federal or state levels in the forms of legislation or programs, or from the bottom up, arising from local government initiatives, often in collaboration with community groups.

Bill Bronrott, a state delegate to the Maryland General Assembly, has a special concern about pedestrian safety, which naturally leads him to involvement in issues such as community walkability, and safe walking routes to school for children. According to Bronrott, the key to pedestrian safety is "the three E's": education of both motorists and pedestrians; enforcement of applicable laws against such offenses as drunk driving, aggressive driving, and hit and run; and engineering. Engineering has in the past created impediments in many areas to safe walking and biking, but can also be a vehicle to enhance and encourage those activities. He stressed that continuity of leadership is vital. Under Governor Glendening, several smart growth legislative initiatives were successfully passed and implemented, but a change in administration brought a less committed governor into office, and those programs have suffered cutbacks.

When we talk about leadership, when we talk about taking your research and what lessons can be learned, and putting them into action, it's important that we sustain these kinds of campaigns over the course of time.

State Delegate Bill Bronrott, District 16, Maryland

Michigan, on the other hand, has recognized that the health of its citizens is intrinsically involved with its fiscal health. Governor Jennifer Granholm has pursued a variety of initiatives designed to improve the health of Michigan's people, including several aimed at combating obesity among children. Dr. Kimberlydawn Wisdom is the first state-level Surgeon General in the country, and she described some of the many programs in place to improve public health in Michigan.

In 2004, Wisdom issued a report called *Prescription for a Healthier Michigan* that outlined key strategic priorities and recommendations. The highest priority was identified as promoting healthy lifestyles within the state. One of the initiatives to emerge is *Michigan Steps Up*, a public/private collaboration focused on physical activity, healthy eating, and decreased tobacco consumption. The goals of the program are to build community capacity, share resources, reduce health risk factors, and improve health outcomes. Stakeholder groups, including businesses, schools, healthcare, faith-based groups and community organizations, will each contribute to efforts within the program. Other efforts in Michigan include participation in single-day, awareness-raising events

such as All Children Exercising Simultaneously (ACES), International Walk to School Day, and a Labor Day Bridge Run. There are also efforts promoting improvements in school physical education curriculums and encouraging safe routes for children to walk or bike to school. Policy efforts include a legislative package mandating safe routes to school, quality physical education for all Michigan schoolchildren, and the availability of healthier foods and beverages in schools.

We've come up with several ways to address the various stakeholder groups, and through various efforts, whether they're long-term or short-term, to promote building a healthier environment across the state of Michigan. The best way to predict the future is to invent it, so we're working to identify innovative ways to build and grow a healthier Michigan. Dr. Kimberlydawn Wisdom, Michigan Surgeon General

The state of New York is also involved in comprehensive efforts to combat obesity in its citizens, as reported by Dr. Barbara Dennison of the New York State Department of Health, who heads the state's Obesity Prevention Program. And with more than 20% of New York school-aged children being obese, and a rate of 30% among Hispanic children, the state has particularly turned its attention to the issue of childhood obesity. New York has recently re-organized its childhood obesity prevention programs, and has created a new brand name for its efforts: "*Activ8Kids!*" *Activ8Kids!* is a \$9.6 million initiative that includes \$1.5 million in new funding, allowing a re-doubling of efforts to promote healthy behaviors in children. Dennison said the premise of *Activ8Kids!* is simple: "Because the habits that create obesity start early in life, we want to reach all children before the age of eight years, and establish a healthy daily routine, including consuming five or more vegetables and fruits per day, engaging in at least one hour of physical activity per day, and reducing time spent watching TV or playing video games to no more than two hours daily. Five plus one plus two equals eight – thus, Activ8."

Dennison also described a wide variety of programs, grants, and legislative efforts in New York aimed at improving nutrition and physical education in schools and day care facilities.

We felt in New York the need to move beyond the traditional prevention strategies and focus on the individual. We felt that we needed broad-based public health strategies that focus on changing our environment and reaching children at a young age. To affect the behavior of populations and individuals, we believe that large-scale, systematic, sustainable changes are needed to support healthy food choices and increased physical activity opportunities in multiple population segments. The goal is to promote policy and environmental changes where we live, work, eat, play, and learn that make it easier for everyone to eat healthy and to be physically active.

Dr. Barbara Dennison, New York State Department of Health

Overview of Environmental Interventions

As the conference progressed, the theme increasingly emerged that to ultimately solve the problem of childhood obesity, it will be necessary both to influence individual behaviors and to institute long-range, effective changes in children's environments that will promote a culture of healthy eating and physical activity. Those efforts should be focused on preventing children from becoming overweight or obese in the first place.

Three programs were presented as successful models that are achieving results in their own particular contexts.

Kaiser Permanente (KP), America's leading integrated health plan, has taken a comprehensive public health approach to the childhood obesity epidemic. As described by Dr. William Caplan of the Kaiser Permanente Care Management Institute, the company has adopted the strategy of pursuing directed social change for the prevention of childhood obesity, incorporating the key components of previous successful directed social change campaigns such as anti-smoking and pro-seatbelt efforts.

The campaign begins with advocacy, in terms of both policy advocacy and patient advocacy. The company supports advocacy organizations and provides training to support environmental policy change. To promote behavior change in patients and their families, clinical training has been provided to more than 1,000 KP pediatricians and family physicians, along with many other community physicians. "The core of this is motivational interviewing – how to interact effectively with your patients, how to mutually agree upon a set of achievable, incremental goals, and how to support behavior change," said Caplan.

Coalitions and partnerships play a vital role in such efforts, and KP has actively engaged in that process, highlighted by its program called Healthy Eating, Active Living (HEAL). HEAL, supported by \$16.5 million in grants, partners with community health organizations to effect multi-level interventions, including environmental and policy change, with a focus on long-term, place-based initiatives, leveraging the communities' and the company's assets and strengths.

Other elements of KP's wide-ranging initiative include the establishment of farmers markets at 29 of its medical centers across the country, educational theater productions promoting healthy living that have played to children at hundreds of schools, and substantial support of obesity prevention research.

We have focused for over the last couple of decades on individual behavior change. Over that period of time, we've found that to be an ineffective strategy to address the overweight problem. What Kaiser and others are doing, and part of the goal of this meeting, is to be able to add to that individual behavior change an environmental component – to provide an environment that is supportive of the individual behavior change we want to see take place, and that allows people to have the access and affordability of a healthy diet and opportunities for physical activity. If we can design that more preventive type of environment, it will enable people to make the individual lifestyle behavior choices that are more health-promoting, and will prevent overweight and obesity from developing in the first place.

Dr. Allen Dearry, NIEHS

Established in 2002, the Consortium to Lower Obesity in Chicago Children (CLOCC) is now a thriving initiative comprising more than 900 individuals representing more than 400 organizations in the Chicago area. To determine the extent of childhood obesity at the local level, early in the group's existence, it gathered data from 25 Chicago public schools. According to Dr. Matthew Longjohn, CLOCC's Executive Director, the results were "astonishing." They discovered that at school entry age, 23% of Chicago children were obese – a rate far exceeding national levels. "We know that NHANES data are very useful for national conversation, but we also have to recognize that this local-level data is extremely important in terms of crafting solutions, in terms of community organizing, in terms of changing perceptions," said Longjohn.

The group's core strategy is to act as an information clearinghouse, helping to disseminate data and direction to its many members. "There are tremendous amounts of resources for research, and obviously very actively engaged people in advocacy, but one of the big challenges was always ensuring that good information got to the right people at the right time," Longjohn explained.

CLOCC, which is comprised of seven work groups of volunteers, is also involved in supporting research and advocating policy change. More than \$200,000 in seed grants have been issued to community-based organizations within the past two years to fund pilot efforts in obesity prevention aimed specifically at children aged three to five years. Upon the release of the public schools obesity data, more than 40 bills to address childhood obesity prevention were introduced in the Illinois legislature. Only two of the measures passed, one of which was designed by CLOCC. It mandates a statewide BMI data surveillance system for Illinois school children. The data will not be at an individual reporting level, but will be intended to help map rates of childhood obesity within the state, identifying problem areas and helping to target allocation of resources.

The expertise, the innovation, and the energy are out there. There are hundreds of community-based organizations wanting to be involved, looking for good data, looking for the way to plug into something that addresses childhood obesity prevention, who need to feel empowered by getting good information – and CLOCC is one model. Dr. Matthew Longjohn, Executive Director, CLOCC

With the plethora of programs and initiatives at all levels across the country addressing childhood obesity, there is a need to establish some sense of coordination, with common language, goals, and standards. That role is being fulfilled by Shaping America's Youth (SAY), a public/private partnership with the mission of defining the scope of efforts directed at childhood physical inactivity and excess weight, and developing a national action plan that will enhance the impact of those efforts nationwide.

SAY has conducted a national survey and established a national registry of organizations engaged in the battle against childhood obesity. Its 2004 Summary Report showed that there were more than 1800 programs (the registry now includes close to 2500) in place, with total funding between \$4 and \$7 billion. Although the broad-brush numbers show that there is a high degree of awareness of the problem, a closer look at some of the trends and characteristics of the programs reveals several areas of room for improvement, according to SAY Executive Director David McCarron. "People are committed, but the problem is, it's not organized, it's not being sustained, and it's probably not being directed at the right age group," said McCarron. "We need to take this commitment and interest and really get it focused where we have to, which is on the very youngest children and their families."

The survey showed that 80% of the programs target children above six years of age, with the majority of that effort occurring after primary school. SAY also promotes the use of outcomes measures, which only 53% of the programs reported having, despite the fact that funding organizations consider quantifiable outcomes measures to be their number one criterion for funding approval. The survey also revealed that most programs are based on educational materials, rather than active structural changes in children's environments. "We've got to change that," said McCarron. "To provide some educational materials is a good first step, but as this conference is trying to have all of us understand, if they don't lead to critical changes in the environment of our children, we are not going to solve this problem."

Next on SAY's ambitious agenda will be a series of four town hall meetings over the next year in Memphis, Dallas, Philadelphia, and a city in California. The meetings are designed to stimulate grassroots dialogue and provide input to the National Action Plan the group plans to release in 2006.

All of the information being generated by SAY, including its 2004 report, new "mini" surveys, and a planned program self-evaluation instrument, is readily available on its website, <u>www.shapingamericayouth.com</u> (which will soon change to .org).

Our goal is to be a stimulus for organizations to come together under one umbrella, whether they be national, regional, or local, take the information from the database, and take the information from these town hall meetings. Because if we don't talk to the people on the ground as to what they need, what they think they have to do, we are going to do what we do too often in this country – we're going to talk down from someplace up here, from Washington or New York – and it's going to fall on deaf ears, because it's not going to be responsive to what communities need."

Dr. David McCarron, Executive Director, Shaping America's Youth

Challenges and Solutions: Engaging Leaders on the Childhood Obesity Problem

The conference's final full session was devoted to brief presentations from a panel of leaders in industry, media, and public health, allowing each to discuss their organization's efforts to contribute to combating childhood obesity. Each solution, small and large, is contributing in some way to creating an environment in which children have more opportunities to eat healthier diets and participate in physical activity.

Molly Barker founded *Girls on the Run* in 1996. The 12-week program, aimed at thirdto fifth-grade girls, combines training for a 5K run with life skills development and lessons designed to enhance self-esteem. *Girls on the Run* is now active in 120 U.S. and Canadian cities, with more than 50,000 girls participating.

"Physical gaming" is a relatively new concept in the video game industry, which allows participants to control the games via their own physical activities. Joe BrisBois of Sony Computer Entertainment America outlined several of the games on the company's I-Toy platform, including a dance game called I-Toy Groove targeted to 7- to 17-year-old girls, and a game aimed at "extreme" gamers called I-Toy Antigrav. An interactive fitness workout program is in development. All of the games are designed to provide participants with a new gaming experience, while encouraging physical activity.

Sesame Street, with its large audience of preschool children, has launched a multi-year, content-driven initiative called Healthy Habits for Life, designed to help young children and their caregivers establish an early foundation of healthy habits. As Anne Gorfinkel of Sesame Workshop described the program, it will treat healthy habits as being as crucial to early development as learning to read and write. With an emphasis on prevention, the messages will be featured in all of the *Sesame Street* media vehicles, including the television show, public service announcements, home video and DVDs, books and magazines, a traveling museum exhibit, and in online content.

Unhealthy foods are often heavily promoted to children in the media, and as the media environment evolves, new opportunities to entice kids toward unhealthy choices are proliferating. Patti Miller of Children Now, a national child advocacy organization based in California, told attendees that interactive marketing already exists in the form of "advergames" – Internet-based games designed to attract and hold young people's attention to specific brands, such as LifeSavers, Kool-Aid, and Chips Ahoy cookies. In the near future, with the advent of digital television, viewers will be able to access the Internet directly from their televisions, allowing even more opportunities for such interactive advertising. *Children Now* is lobbying the Federal Communications Commission to institute a ban on such practices in children's television programming.

Dr. Marlene Schwartz of Yale University discussed how public policy informed by science can impact children's food environment. "If we look at the food environment we're currently in, many things are working against our eating a healthy diet. Poor foods are highly accessible, convenient, good tasting, heavily promoted, and inexpensive, while healthy foods are less accessible, less convenient, worse tasting, not promoted, and more expensive," she said. There are three approaches to ameliorating that situation, particularly as it applies to children. First, unhealthy foods could be treated like cigarettes, with bans on advertising to children and sales in schools, and with litigation against industry. Second, the strategy currently practiced by the government, to attempt to influence people to be more personally responsible, to eat healthier foods and get more exercise. The third option, which Schwartz said is gaining acceptance, is to make it easier for people to eat healthy foods and harder to eat unhealthy foods. She cited progress in restaurants and schools making healthier choices available, but noted that children will still often opt for unhealthy foods. Limiting choices may be the best strategy, as exemplified by a new law in Connecticut restricting beverages and snacks sold in schools to nutritious products. Her group plans to track the effects of the law to assess its impact on obesity rates.

Food and beverage giant PepsiCo has recognized that there is a tremendous business opportunity in offering consumers more nutritious, healthful products, according to Ellen Taaffe. Health-oriented products now comprise almost 40% of PepsiCo's product portfolio, and are its fastest-growing sector. Taaffe said the company's strategy is to position itself at the intersection where business interests and public interests meet, by offering consumers more choices that contribute to healthier lifestyles. As an example, she cited the Smart Spot program, in which a symbol is placed on a product's packaging identifying it as a healthy choice. More than 100 of the company's products currently carry the Smart Spot designation.

Cathleen Toomey of Stonyfield Farm, the country's largest producer of organic yogurt, discussed the company's successful efforts to launch the first organic and all natural healthy vending machines for schools. Produced in collaboration with the schools themselves, who receive the profits from sales, there are currently 32 of the machines in place at schools in seven states, with a nationwide waiting list of 930 schools. According to Toomey, the program is demonstrating that "kids will eat organic food, as long as it tastes good."

The message I would encourage everyone to take away from this conference is that you can make small changes. You can start a Girls on the Run program, you can apply for a healthy vending machine – you can start making a difference in your communities. You can make the doors open, and we can whittle down childhood obesity piece by piece. Cathleen Toomey, Stonyfield Farm

The conference concluded with a keynote address by Arkansas Governor Mike Huckabee. Governor Huckabee shared with attendees his own story of a battle with obesity. Two years ago, he weighed 110 pounds more than he does today, had Type 2 diabetes, and had been told by his physician that if he didn't make drastic changes, he was in his final decade of life. He took the advice to heart, and is now slim and trim, and a champion of efforts to combat obesity, particularly in Arkansas' children. For example, he led efforts in the state to institute BMI screening of all incoming school children, with reports of results sent to parents. The program has been recognized nationwide as a model of its type.

Because it is so hard to treat obesity, we've tried to focus on preventing obesity from developing in children, and we're trying to do that through a variety of research and educational strategies. If you can prevent kids from becoming overweight and obese at a young age, then you're much more likely to start to reduce the incidence of obesity in adults. I think there's the potential that if we can successfully modify our environment to enable people to have a better diet or more physical activity, we can start to see some reductions in the growth of obesity in the next five to ten years.

Dr. Allen Dearry, NIEHS

Environmental Solutions to Obesity in America's Youth June 1-2, 2005

The Washington Convention Center Washington, DC

WEDNESDAY, JUNE 1, 2005

Level 2, 202AB Concourse Area 8:00 – 9:00 AM	REGISTRATION
Level 2, Meeting Room 202AB	DAY 1: GENERAL SESSION
9:00 - 10:15	Welcome and Opening Remarks Dr. David Schwartz, Director, National Institute of Environmental Health Sciences, NIH
	Keynote Address Mr. Lynn Swann, Chairman, President's Council on Physical Fitness and Sports Vice Admiral Richard H. Carmona, U.S. Surgeon General Secretary Michael Leavitt, U.S. Dept of Health and Human Services
Level 2, Meeting Room 201 10:15 – 10:45	Morning Break
10:45 – 12:15 PM	Plenary Session - Obesity in Youth: Basic Facts, Issues, and Implications. What We Know about Obesity in Youth.
	Moderator: Dr. Allen Dearry, National Institute of Environmental Health Sciences, NIH
	Obesity in Youth: An Overview and Call to Action Dr. Ross Brownson, St. Louis University, School of Public Health
	Obese Neighborhoods: Disparities in Access to Food Dr. Adam Drewnowski, University of Washington – Seattle
	Health Consequences Dr. Jeffrey B. Schwimmer, University of California – San Diego
12:15 – 1:45	Lunch (on your own)
Level 2, Room 201 1:45 – 3:15	Plenary Session - Environment and Childhood Obesity
	Moderator: Ms. Robin Hamre, Centers for Disease Control
	Sprawling Development, Sprawling Waistlines, and How to Fix Them Governor Parris Glendening, Smart Growth Leadership Institute; Former Governor of Maryland Urban Design, Lifestyle, and the Development of Chronic Conditions
	Dr. Roland Sturm, RAND
	Mindless Eating: Hidden Persuaders That Make Children Lose and Gain Weight Dr. Brian Wansink, Cornell University
Level 2, Meeting Room 201 3:15 – 3:45	Afternoon Break

WEDNESDAY, JUNE 1, 2005 (CONTINUED)

3:45 - 5:15	Panel Session – Government Leaders in Action
	<u>Moderator</u> : Governor Parris Glendening, Smart Growth Leadership Institute; Former Governor of Maryland
	State Delegate Bill Bronrott, District 16, Maryland Surgeon General Kimberlydawn Wisdom, Michigan Mr. Mark Kissinger, Deputy Secretary for Health and Human Services, New York
Level 2, Room 207AB 6:00 - 8:00	Reception - Sponsored by the Robert Wood Johnson Foundation
	THURSDAY, JUNE 2, 2005
Level 2, Meeting Room 202AB	DAY 2: GENERAL SESSION
8:30 – 10:00 AM	Plenary Session – Overview of Environmental Interventions <u>Moderator</u> : Mr. David Brown, Delete MPH National Institute of Environmental Health Sciences, NIH
	Kaiser Permanente's Comprehensive Public Health Approach to the Epidemic of Childhood Obesity Dr. William Caplan, Kaiser Permanente Care Management Institute
	CLOCC: A Childhood Obesity Prevention Effort in the Chicago Environment Dr. Matthew Longjohn, Consortium to Lower Obesity in Chicago Children (CLOCC)
	Shaping America's Youth: Observations from the SAY Survey and Registry; Programs Directed at Physical Activity and Nutrition Dr. David McCarron, Academic Network
Level 2, Meeting Room 201 10:00 – 10:30	Morning Break
10:30 – 12:00 PM	MORNING CONCURRENT SESSIONS (see following pages)
12:00 – 1:30	Lunch (on your own)
1:30 - 3:00	AFTERNOON CONCURRENT SESSIONS (see following pages)
Level 2, Meeting Room 201 3:00 – 3:30	Afternoon Break

THURSDAY, JUNE 2, 2005 (CONTINUED)

3:30 - 5:00	Panel Session – Challenges and Solutions: Engaging Leaders on the Childhood Obesity Problem Leaders in industry, media, and public health professions will discuss their particular solutions and interact in a lively discussion of the obstacles to and remedies for childhood obesity. The audience will be encouraged to ask questions or share their own experience, solutions, and views.
	<u>Moderator</u> : Dr. Barry Popkin, University of North Carolina – Chapel Hill <u>Panelists:</u> <i>Girls on the Run-Celebrating the Unique in Every Body</i> Ms. Molly Barker, Girls on the Run
	Physical Gaming: PlayStation and EyeToy Get Kids Off the Couch Mr. Joe BrisBois, Sony Computer Entertainment America
	Healthy Habits for Life Ms. Anne Gorfinkel, Sesame Workshop
	Interactive Advertising and Children's Health Ms. Patti Miller, Children Now
	Children and Food: Public Policy Informed by Science Dr. Marlene Schwartz, Yale University
	Growth at the Intersection of Public and Private Interests Ms. Ellen Taaffe, Pepsico
	They Say It Couldn't Be Done: Launching a Healthy Vending Machine for Schools Ms. Cathleen Toomey, Stonyfield Farm
5:00 - 5:45	Closing Keynote/Remarks Introduction: Dr. Allen Dearry, National Institute of Environmental Health Sciences, NIH Governor Mike Huckabee, Arkansas

MORNING CONCURRENT SESSIONS - THURSDAY, JUNE 2, 2005

Level 2, Meeting Room 204AB	A. State-Level Initiatives – North Carolina: Eat Smart, Move MoreNC The North Carolina Division of Public Health (NCDPH) will share an overview of their comprehensive work with state and local partners in addressing nutrition and physical activity to prevent obesity and other chronic diseases. The NCDPH, with numerous partners, have developed and implemented creative initiatives, exemplary programming, multilevel interventions and successful community-based grants programs. As a result of these programs, policy and environmental changes are taking place throughout the state in support of Eat Smart, Move MoreNorth Carolina.
	<u>Moderator</u> : Ms. Cathy Thomas, Delete MAEd, CHES Physical Activity and Nutrition Branch, NC DHHS <u>Panelists</u> : Mr. Jimmy Newkirk, Physical Activity and Nutrition Branch, NC DHHS Ms. Sherée Thaxton Vodicka, Physical Activity and Nutrition Branch, NC DHHS
Level 2, Meeting Room 204C	B. Active Living by Design: Developing Community-Based Models for Obesity Prevention
	This presentation will focus on Active Living by Design, a national program of The Robert Wood Johnson Foundation, and its comprehensive 5Ps model to increase physical activity through changes in community design. A brief overview will be provided, followed by case examples from Active Living by Design partnerships in Somerville, Massachusetts; Chicago, Illinois; and Columbia, Missouri that will focus on how they are addressing childhood obesity.
	<u>Moderator</u> : Mr. Rich Bell, Active Living by Design <u>Panelists:</u> Active Living by Design: Developing Community-Based Models for Obesity Prevention Mr. Rich Bell, Active Living by Design
	Environmental Solutions to Childhood Obesity: One Community Responds Ms. Jessica Collins, Tufts University
	Childhood Obesity: A Family, A School, A Community Matter Ms. Lucy Gomez-Feliciano, Logan Square Neighborhood Association
	Environmental Solutions to Obesity in America's Youth: Lessons Learned in the Community Setting Dr. Ian Thomas, PedNet Coalition
Level 2, Meeting Room 206	<i>C. Transportation Initiatives</i> Active and safe transportation is a critical element to encourage obesity control in our nation's youth. This session will present transportation success stories from three people whose organizations are actively involved in the provision of active and safe transportation alternatives.
	<u>Moderator</u> : Dr. David Belluck, Federal Highway Administration, U.S. DOT <u>Panelists:</u> <i>Safe Routes to School Programs: Partnership of Transportation, Safety and Health</i> Ms. Lauren Marchetti, University of North Carolina – Chapel Hill
	The Brevard MPO Safe School Access Program Ms. Barbara Meyers, Brevard County Office of Transportation Planning/MPO
	Human Powered Transportation – Steps Toward Healthy Weight and Healthy Environment Mr. Jeff Walker, Cambridge (Delete), MA Public Health Department
	A1-4

Level 2, Meeting Room 208AB	D. Public Advocacy/Education Initiatives Non-profit organizations have been instrumental in creating operational frameworks in which obesity prevention initiatives can be effective. Three non-profit groups will highlight their approaches to influencing public policy, establishing grant programs, and creating multi-level partnerships for the campaign against obesity.
	<u>Moderator</u> : Ms. Karen Donato, National Heart, Lung, and Blood Institute, NIH <u>Panelists</u> : <i>Taking Action for a Healthier California: The Strategic Alliance for Healthy Food and</i> <i>Activity Environments</i> Ms. Leslie Mikkelsen, Prevention Institute
	Action for Healthy Kids: Improving the School Environment Ms. Alicia Moag-Stahlberg, Delete MS, RD, LD Action for Healthy Kids
	Healthy Eating, Active Communities: A Comprehensive Approach to Addressing Obesity Ms. Marion Standish, The California Endowment
Level 2, Meeting Room 209AB	<i>E. The Youth Perspective: Youth Engagement in Community Wellness Promotion</i> The Urban Nutrition Initiative (UNI) is part of the Center for Community Partnerships at the University of Pennsylvania in which students in grades K-16+ address issues of community nutrition and physical fitness through a curriculum that integrates community problem solving across core-subject areas. A team of youth from UNI will share perspectives of their experiences in improving the nutritional ecosystem in Philadelphia. Through a project that integrates community problem solving into year-round school-based programs, youth working with UNI have established several environmental solutions to the obesity epidemic.
	<u>Moderator</u> : Mr. Danny Gerber, Center for Community Partnerships, University of Pennsylvania <u>UNI Team:</u> Salema Davis, Sayre High School Michelle Jenkins, University City High School Xavier Kimbough, University City High School Jonathon Russell, University City High School
Level 2, Meeting Room 209C	<i>F. America on the Move</i> America on the Move (AOM) is a national initiative to inspire people of all ages to make small increases in walking and small decreases in energy intake in order to prevent weight gain and improve health. This session presents AOM progress at the local, state, and national levels.
	<u>Moderator</u> : Dr. James Hill, University of Colorado Health Sciences Center <u>Panelists</u> : <i>Simple Steps to Better Health: Building a Movement</i> Dr. John C. Peters, The Procter and Gamble Company
	The Colorado On the Move Experience Ms. Helen Thompson, University of Colorado Health Sciences Center
	Tennessee on the Move: Successes in Building a Novel Approach on Existing AOM Messages Dr. Michael Zemel, University of Tennessee
	Saratoga On the Move Ms. Sue Malinowski, Saratoga Care

AFTERNOON CONCURRENT SESSIONS - THURSDAY, JUNE 2, 2005

Level 2, Meeting Room 204AB	A. State-Level Initiatives – California: Environmental Strategies to Improve Healthy Eating and Activity This panel will address three major areas that have a significant impact on obesity in California's youth: Television/recreational screen time in "tweens", policy change in schools that support healthy eating and physical activity, and the impact of the built environment on youth physical activity and obesity.
	<u>Moderator</u> : Ms. Leslie Mikkelsen, Prevention Institute <u>Panelists:</u> <i>Creating School Environments that Support Healthy Eating</i> Ms. Peggy Agron, California Project LEAN, California Department of Health Services
	Watch Less – Do More! Screen Time and Tweens Ms. Nancy Gelbard, California Obesity Prevention Initiative, California Department of Health Services
	Impact of the Built Environment on Youth Physical Activity and Obesity Dr. Gregory Norman, University of California – San Diego
Level 2, Meeting Room 204C	B. Community Design – Built Environment The opportunities for children, adolescents and teens to be physically active in the course of their daily routines are determined by the quality of the built environment in their neighborhoods, the location of their school relative to where they live, their proximity to open space and parks, and the design and condition of the streets and sidewalks that they use to get themselves where they want or need to go. This session will provide practical advice to local communities, health professionals, urban planners, school boards, and other participants in the land-use policy and planning process on what modifications can be made to the built environment where kids walk, bike, and play that can enhance their ability and likelihood of being physically active while staying safe at the same time.
	<u>Moderator:</u> Ms. Marya Morris, American Planning Association <u>Panelists:</u> <i>The Effect of Environment on Adolescents' Physical Activity: Findings from the 2003</i> <i>California Health Interview Survey</i> Dr. E. Richard Brown, UCLA Center for Health Policy Research
	Complete delete the Streets: A Comprehensive Policy Approach to Encourage Active Living Ms. Barbara McCann, McCann Consulting
	The Impact of School Siting on Children's Health and Physical Activity Dr. David Salvesen, University of North Carolina – Chapel Hill

Level 2, Meeting Room 206	<i>C. Innovative Local Strategies for Creating Healthier Living Environments</i> This session will highlight efforts of local public health departments that are working with external partners (e.g. planning and elected officials) to improve the health and well-being of children through built environment interventions. Panelists will explore methods for greater local public health agency involvement, by providing lessons learned, tools and resources used to address root causes of obesity through land use/community design policy decisions.
	<u>Moderator</u> : Dr. Thomas Schmid, Centers for Disease Control <u>Panelists</u> : <i>Partnerships, Interactions, Relationships and Collaboration: Public Health and Planning</i> <i>Working Together to Improve Community Health and Safety</i> Ms. Valerie Rogers, National Association of County and City Health Officials
	<i>Peddling Off the Pounds</i> Dr. Kevin Stephens, City of New Orleans Department of Health
	A Local Collaboration Addressing Health Risk Ms. Susan Sutherland, Delaware General Health District
Level 2, Meeting Room 208AB	D. Addressing Disparities in Obesity in Vulnerable Populations Studies show that certain populations are disproportionately prone to obesity. Environmental solutions addressing prevention and treatment should be culturally-relevant and tailored to the needs of each particular population. The three panelists will share their programs' successes, challenges, and lessons learned.
	Moderator: Mr. David Vigil, New Mexico Public Health Division
	Panelists: Fighting the Obesity Epidemic Among Low-Income Communities: The Need for a Comprehensive Approach Dr. América Bracho, Latino Health Access
	Listen Up! Strategies for Engaging Low-Income Communities of Color in Obesity Prevention Efforts
	Ms. Arnell Hinkle, California Adolescent Nutrition and Fitness Program (CANFit)
	Our Wellness Journey: Following the Path of Traditions in Building Healthier AI/AN Communities Dr. Kelly Moore, Indian Health Service
Level 2, Meeting Room 209AB	<i>E. Health Care Initiatives</i> The health care industry is expanding efforts to emphasize preventive solutions. More insurance companies, hospitals, and private practitioners are engaging in collaborative efforts with government, communities, and schools. Each panelist will explore how the medical and health insurance communities can be more effective agents of change, both at the individual and community level.
	<u>Moderator:</u> Ms. Nsedu Obot Witherspoon, Children's Environmental Health Network <u>Panelists:</u> <i>Overweight Children: Kaiser Permanente's Approach to Prevention and Treatment</i> Dr. Scott Gee, Kaiser Permanente
	How Can Health Care Providers be Part of the Solution? Dr. Francine Ratner Kaufman, Children's Hospital Los Angeles
	Shape-Up/Live Well: CareFirst Blue Cross Blue Shield Obesity Prevention Grants
	Program Ms. Luwanda Jenkins, CareFirst Blue Cross Blue Shield

Level 2, Meeting Room 209C

F. Researching the Environment-Obesity Link: Tools, Measures, and Methods

Development of reliable environmental measures is key to effective assessment of environment/obesity connections. Researchers in the fields of nutrition, parks and recreation, and community design will share their research and insights on environmental measurement tools and methodology.

<u>Moderator</u>: Ms. Leslie Linton, Active Living Research <u>Panelists</u>: <u>Methods for Measuring Park Environments</u> Dr. Ariane Bedimo-Rung, Louisiana State University, School of Public Health

Identifying and Measuring Urban Design Qualities Related to Walkability Dr. Reid Ewing, National Center for Smart Growth

Tools and Methods for Measuring Nutrition Environments Dr. Karen Glanz, Rollins School of Public Health, Emory University

A Pilot Study of Exercise and Changes in BMI and Body Fat in High School Freshman Ms. Jamie Bell, Student, Charles E. Jordan Senior High School

APPENDIX 2:

Conference Planning Committee:

Dr. David Belluck, Federal Highway Administration, U.S. Department of Transportation
Mr. David Brown, National Institute of Environmental Health Sciences, NIH
Ms. Christine Bruske, National Institute of Environmental Health Sciences, NIH
Dr. Andrew Dannenberg, National Center for Environmental Health, CDC
Dr. Allen Dearry, National Institute of Environmental Health Sciences, NIH
Dr. Martha Dimes, National Institute of Environmental Health Sciences, NIH
Dr. Martha Dimes, National Institute of Environmental Health Sciences, NIH
Dr. James O. Hill, University of Colorado Health Sciences Center
Ms. Stephanie Holmgren, National Institute of Environmental Health Sciences, NIH
Mr. William Jirles, National Institute of Environmental Health Sciences, NIH
Mr. Richard E. Killingsworth, Active Living by Design, University of North Carolina at Chapel Hill
Dr. Harold W. Kohl, III, National Center for Chronic Disease Prevention and Health Promotion, CDC
Ms. Charle League, National Institute of Environmental Health Sciences, NIH
Ms. Marya Morris, American Planning Association
Ms. Valerie Rogers, National Association of County and City Health Officials
Dr. Shobha Srinivasan, National Institute of Environmental Health Sciences, NIH

Conference Management Committee:

Ms. Angie Sanders, National Institute of Environmental Health Sciences, NIH

Ms. Alma Britton, National Institute of Environmental Health Sciences, NIH

Ms. Tonya Stonham, National Institute of Environmental Health Sciences, NIH

Ms. Andrea Brooks, National Institute of Environmental Health Sciences, NIH

Mr. John Maruca, Image Associates, Inc.

Mr. Pete Cozart, Web Developer

Mr. David Kerley, Poster and Program Design

Mr. Ernie Hood, Science Writer

APPENDIX 3:

Obesity in youth: An overview and call to action Ross Brownson for the IOM Committee on Prevention of Obesity in Children and Youth

Despite steady progress over most of the past century toward assuring the health of our country's children, we begin the 21st century with a startling set-back—an epidemic of childhood obesity. This epidemic is occurring in boys and girls in all 50 states, in younger children as well as adolescents, across all socioeconomic strata, and among all ethnic groups—though specific subgroups, including African Americans, Hispanics, and American Indians, are disproportionately affected. At a time when we have learned that excess weight has significant and troublesome health consequences, we nevertheless see our population, in general, and our children, in particular, gaining weight to a dangerous degree and at an alarming rate.

The increasing prevalence of childhood obesity¹ throughout the United States has led policy makers to rank it as a critical public health threat. Over the past three decades, its rate has more than doubled for preschool children aged 2 to 5 years and adolescents aged 12 to 19 years, and it has more than tripled for children aged 6 to 11 years. At present, approximately nine million children over 6 years of age are considered obese. These trends mirror a similar profound increase over the same approximate period in U.S. adults as well as a concurrent rise internationally, in developed and developing countries alike.

Childhood obesity involves immediate and long-term risks to physical health. For children born in the United States in 2000, the lifetime risk of being diagnosed with type 2 diabetes at some point in their lives is estimated at 30 percent for boys and 40 percent for girls if obesity rates level off. Young people are also at risk of developing serious psychosocial burdens related to being obese in a society that stigmatizes this condition.

There are also considerable economic costs. The national health care expenditures related to obesity and overweight in adults alone have been estimated to range from approximately \$98 billion to \$129 billion after adjusting for inflation and converting estimates to 2004 dollars. Understanding the causes of childhood obesity, determining what to do about them, and taking appropriate action require attention to what influences eating behaviors and physical activity levels because obesity prevention involves a focus on energy balance (calories consumed versus calories expended). Although seemingly straightforward, these behaviors result from complex interactions across a number of relevant social, environmental, and policy contexts.

U.S. children live in a society that has changed dramatically in the three decades over which the obesity epidemic has developed. Many of these changes—such as both parents working outside the home, longer work hours by both parents, changes in the school food environment, and more meals eaten outside the home, together with changes in the physical design of communities often affect what children eat, where they eat, how much they eat, and the amount of energy they expend in school and leisure time activities. Other changes, such as the growing diversity of the population, influence cultural views and marketing patterns. Use of computers and video games, along with television viewing, often occupy a large percentage of children's leisure time and potentially influence levels of physical activity for children as well as for adults. Many of the social and cultural characteristics that the U.S. population has accepted as a normal way of life may collectively contribute to the growing levels of childhood obesity. An understanding of these contexts, particularly regarding their potential to be modified and

¹Reflecting classification based on the readily available measures of height and weight, this report uses the term "obesity" to refer to children and youth who have a body mass index (BMI) equal to or greater than the 95th percentile of the age- and gender-specific BMI charts of the Centers for Disease Control and Prevention (CDC). In most children, such BMI values are known to indicate elevated body fat and to reflect the presence or risk of related diseases.

how they may facilitate or impede development of a comprehensive obesity prevention strategy, is essential for reducing childhood obesity.

Developing An Action Plan For Obesity Prevention

The Institute of Medicine (IOM) Committee on Prevention of Obesity in Children and Youth was charged with developing a prevention-focused action plan to decrease the prevalence of obesity in children and youth in the United States. The primary emphasis of the committee's task was on examining the behavioral and cultural factors, social constructs, and other broad environmental factors involved in childhood obesity and identifying promising approaches for prevention efforts. The plan consists of explicit goals for preventing obesity in children and youth and a set of recommendations, all geared toward achieving those goals, for different segments of society.

Obesity prevention requires an evidence-based public health approach to assure that recommended strategies and actions will have their intended effects. Such evidence is traditionally drawn from experimental (randomized) trials and high-quality observational studies. However, there is limited experimental evidence in this area, and for many environmental, policy, and societal variables, carefully designed evaluations of ongoing programs and policies are likely to answer many key questions. For this reason, the committee chose a process that incorporated all forms of available evidence—across different categories of information and types of study design—to enhance the biological, psychosocial, and environmental plausibility of its inferences and to assure consistency and congruency of information.

Because the obesity epidemic is a serious public health problem calling for immediate reductions in obesity prevalence and in its health and social consequences, the committee believed strongly that actions should be based on the best *available* evidence—as opposed to waiting for the best *possible* evidence. However, there is an obligation to accumulate appropriate evidence not only to justify a course of action but to assess whether it has made a difference. Therefore, evaluation should be a critical component of any implemented intervention or change.

Childhood obesity prevention involves maintaining energy balance at a healthy weight while protecting overall health, growth and development, and nutritional status. The balance is between the energy an individual consumes as food and beverages and the energy expended to support normal growth and development, metabolism, thermogenesis, and physical activity. Although "energy intake = energy expenditure" looks like a fairly basic equation, in reality it is extraordinarily complex when considering the multitude of genetic, biological, psychological, sociocultural, and environmental factors that affect both sides of the equation and the interrelationships between these factors. For example, children are strongly influenced by the food- and physical activity-related decisions made by their families, schools, and communities. Furthermore, it is important to consider the kinds of foods and beverages that children are consuming over time, given that specific types and quantities of nutrients are required to support optimal growth and development.

Thus, changes at many levels and in numerous environments will require the involvement of multiple stakeholders from diverse segments of society. In the home environment, for example, incremental changes such as improving the nutritional quality of family dinners or increasing the time and frequency that children spend outside playing can make a difference. Changes that lead to healthy communities, such as organizational and policy changes in local schools, school districts, neighborhoods, and cities, are equally important. At the state and national levels, large-scale modifications are needed in the ways in which society promotes healthful eating habits and physically active lifestyles. Accomplishing these changes will be difficult, but there is precedent for success in other public health endeavors of comparable or greater complexity and scope. This must be a national

effort, with special attention to communities that experience health disparities and that have social and physical environments unsupportive of healthful nutrition and physical activity.

A National Public Health Priority

Just as broad-based approaches have been used to address other public health concerns—including automobile safety and tobacco use—obesity prevention should be public health in action at its broadest and most inclusive level. **Prevention of obesity in children and youth should be a national public health priority.**

Across the country, obesity prevention efforts have already begun, and although the ultimate solutions are still far off, there is great potential at present for pursuing innovative approaches and creating linkages that permit the cross-fertilization of ideas. Current efforts range from new school board policies and state legislation regarding school physical education requirements and nutrition standards for beverages and foods sold in schools to community initiatives to expand bike paths and improve recreational facilities. Parallel and synergistic efforts to prevent adult obesity, which will contribute to improvements in health for the entire U.S. population, are also beginning. Grassroots efforts made by citizens and organizations will likely drive many of the obesity prevention efforts at the local level and can be instrumental in driving policies and legislation at the state and national levels.

The additional impetus that is needed is the political will to make childhood obesity prevention a national public health priority. Obesity prevention efforts nationwide will require federal, state, and local governments to commit adequate and sustained resources for surveillance, research, public health programs, evaluation, and dissemination. The federal government has had a longstanding commitment to programs that address nutritional deficiencies (beginning in the 1930s) and encourage physical fitness, but only recently has obesity been targeted. The federal government should demonstrate effective leadership by making a sustained commitment to support policies and programs that are commensurate to the scale of the problem. Furthermore, leadership in this endeavor will require coordination of federal efforts with state and community efforts, complemented by engagement of the private sector in developing constructive, socially responsible, and potentially profitable approaches to the promotion of a healthy weight.

State and local governments have especially important roles to play in obesity prevention, as they can focus on the specific needs of their state, cities, and neighborhoods. Many of the issues involved in preventing childhood obesity—including actions on street and neighborhood design, plans for parks and community recreational facilities, and locations of new schools and retail food facilities—require decisions by county, city, or town officials.

Rigorous evaluation of obesity prevention interventions is essential. Only through careful evaluation can prevention interventions be refined; those that are unsuccessful can be discontinued or refocused, and those that are successful can be identified, replicated, and disseminated.

Healthy Marketplace And Media Environments

Children, youth, and their families are surrounded by a commercial environment that strongly influences their purchasing and consumption behaviors. Consumers may initially be unsure about what to eat for good health. They often make immediate trade-offs in taste, cost, and convenience for longer term health. The food, beverage, restaurant, entertainment, leisure, and recreation industries share in the responsibilities for childhood obesity prevention and can be instrumental in supporting this goal. Federal agencies can strengthen industry efforts through general support, technical assistance, research expertise, and regulatory guidance.

Some leaders in the food industry are already making changes to expand healthier options for young consumers, offer products with reduced energy content, and reduce portion sizes. These changes must be adopted on a much larger scale, however, and marketed in ways that make acceptance by consumers (who may now have acquired entrenched preferences for many less healthful products) more likely. Coordinated efforts among the private sector, government, and other groups are also needed to create, support, and sustain consumer demand for healthful food and beverage products, appropriately portioned restaurant and take-out meals, and accurate and consistent nutritional information through food labels, health claims, and other educational sources. Similarly, the leisure, entertainment, and recreation industries have opportunities to innovate in favor of stimulating physical activity—as opposed to sedentary or passive-leisure pursuits—and portraying active living as a desirable social norm for adults and children.

Children's health-related behaviors are influenced by exposure to media messages involving foods, beverages, and physical activity. Research has shown that television advertising can especially affect children's food knowledge, choices, and consumption of particular food products, as well as their food-purchase decisions made directly and indirectly (through parents). Because young children under 8 years of age are often unable to distinguish between information and the persuasive intent of advertising, the committee recommends the development of guidelines for advertising and marketing of foods, beverages, and sedentary entertainment to children.

Media messages can also be inherently positive. There is great potential for the media and entertainment industries to encourage a balanced diet, healthful eating habits, and regular physical activity, thereby influencing social norms about obesity in children and youth and helping to spur the actions needed to prevent it. Public education messages in multiple types of media are needed to generate support for policy changes and provide messages to the general public, parents, children, and adolescents.

Healthy Communities

Encouraging children and youth to be physically active involves providing them with places where they can safely walk, bike, run, skate, play games, or engage in other activities that expend energy. But practices that guide the development of streets and neighborhoods often place the needs of motorized vehicles over the needs of pedestrians and bicyclists. Local governments should find ways to increase opportunities for physical activity in their communities by examining zoning ordinances and priorities for capital investment.

Community actions need to engage child- and youth-centered organizations, social and civic organizations, faith-based groups, and many other community partners. Community coalitions can coordinate their efforts and leverage and network resources. Specific attention must be given to children and youth who are at high risk for becoming obese; this includes children in populations with higher obesity prevalence rates and longstanding health disparities such as African Americans, Hispanic Americans, and American Indians, or families of low socioeconomic status. Children with at least one obese parent are also at high risk.

Health-care professionals, including physicians, nurses, and other clinicians, have a vital role to play in preventing childhood obesity. As advisors both to children and their parents, they have the access and influence to discuss the child's weight status with the parents (and child as age appropriate) and make credible recommendations on dietary intake and physical activity throughout children's lives. They also have the authority to encourage action by advocating for prevention efforts.

Healthy School Environment

Schools are one of the primary locations for reaching the nation's children and youth. In 2000, 53.2 million students were enrolled in public and private elementary and secondary schools in the United States. In addition, schools often serve as the sites for pre-school, child-care, and after-school programs. Both inside and outside of the classroom, schools present opportunities for the concepts of energy balance to be taught and put into practice as students learn about good nutrition, physical activity, and their relationships to health; engage in physical education; and make food and physical activity choices during school meal times and through school-related activities.

All foods and beverages sold or served to students in school should be healthful and meet an accepted nutritional content standard. However, many of the "competitive foods" now sold in school cafeterias, vending machines, school stores, and school fundraisers are high in calories and low in nutritional value. At present, federal standards for the sale of competitive foods in schools are only minimal.

In addition, many schools around the nation have reduced their commitment to provide students with regular and adequate physical activity, often as a result of budget cuts or pressures to increase academic course offerings, even though it is generally recommended that children accumulate a minimum of 60 minutes of moderate to vigorous physical activity each day. Given that children spend over half of their day in school, it is not unreasonable to expect that they participate in at least 30 minutes of moderate to vigorous physical activity during the school day.

Schools offer many other opportunities for learning and practicing healthful eating and physical activity behaviors. Coordinated changes in the curriculum, the in-school advertising environment, school health services, and after-school programs all offer the potential to advance obesity prevention. Furthermore, it is important for parents to be aware of their child's weight status. Schools can assist in providing BMI, weight, and height information to parents and to children (as age appropriate) while being sure to sensitively collect and report on that information.

Healthy Home Environment

Parents (defined broadly to include primary caregivers) have a profound influence on their children by fostering certain values and attitudes, by rewarding or reinforcing specific behaviors, and by serving as role models. A child's health and well-being are thus enhanced by a home environment with engaged and skillful parenting that models, values, and encourages healthful eating habits and a physically active lifestyle. Economic and time constraints, as well as the stresses and challenges of daily living, may make healthful eating and increased physical activity a difficult reality on a day-to-day basis for many families.

Parents play a fundamental role as household policy makers. They make daily decisions on recreational opportunities, food availability at home, and children's allowances; they determine the setting for foods eaten in the home; and they implement countless other rules and policies that influence the extent to which various members of the family engage in healthful eating and physical activity. Older children and youth, meanwhile, have responsibilities to be aware of their own eating habits and activity patterns and to engage in health-promoting behaviors.

Confronting The Childhood Obesity Epidemic

The committee acknowledges, as have many other similar efforts, that obesity prevention is a complex issue, that a thorough understanding of the causes and determinants of the obesity epidemic is lacking, and that progress will require changes not only in individual and family behaviors but also in the

marketplace and the social and built environments. As the nation focuses on obesity as a health problem and begins to address the societal and cultural issues that contribute to excess weight, poor food choices, and inactivity, many different stakeholders will need to make difficult tradeoffs and choices. However, as institutions, organizations, and individuals across the nation begin to make changes, societal norms are likely to change as well; in the long-term, we can become a nation where proper nutrition and physical activity that support energy balance at a healthy weight will become the standard.

Recognizing the multifactorial nature of the problem, the committee deliberated on how best to prioritize the next steps for the nation in preventing obesity in children and youth. The traditional method of prioritizing recommendations of this nature would be to base these decisions on the strength of the scientific evidence demonstrating that specific interventions have a direct impact on reducing obesity prevalence and to order the evidence-based approaches based on the balance between potential benefits and associated costs including potential risks. However, a robust evidence base is not yet available. Instead, we are in the midst of compiling that much-needed evidence at the same time that there is an urgent need to respond to this epidemic of childhood obesity. Therefore, the committee used the best scientific evidence available—including studies with obesity as the outcome measure and studies on improving dietary behaviors, increasing physical activity levels, and reducing sedentary behaviors, as well as years of experience and study on what has worked in addressing similar public health challenges—to develop the recommendations presented in this report.

As evidence was limited, yet the health concerns are immediate and warrant preventive action, it is an explicit part of the committee's recommendations that all the actions and initiatives include evaluation efforts to help build the evidence base that continues to be needed to more effectively fight this epidemic.

From the ten recommendations presented above, the committee has identified a set of immediate steps based on the short-term feasibility of the actions and the need to begin a well-rounded set of changes that recognize the diverse roles of multiple stakeholders. In discussions and interactions that have already begun and will follow with this report, each community and stakeholder group will determine their own set of priorities and next steps.

The committee was also asked to set forth research priorities. There is still much to be learned about the causes, correlates, prevention, and treatment of obesity in children and youth. Because the focus of this study is on prevention, the committee concentrated its efforts throughout the report on identifying areas of research that are priorities for progress toward preventing childhood obesity. The three research priorities discussed throughout the report are:

- Evaluation of obesity prevention interventions—The committee encourages the evaluation of interventions that focus on preventing an increase in obesity prevalence, improving dietary behaviors, increasing physical activity levels, and reducing sedentary behaviors. Specific policy, environmental, social, clinical, and behavioral intervention approaches should be examined for their feasibility, efficacy, effectiveness, and sustainability. Evaluations may be in the form of randomized controlled trials and quasi-experimental trials. Cost effectiveness research should be an important component of evaluation efforts.
- Behavioral research—The committee encourages experimental research examining the fundamental factors involved in changing dietary behaviors, physical activity levels, and sedentary behaviors. This research should inform new intervention strategies that are implemented and tested at individual, family, school, community, and population levels. This would include studies that focus on factors promoting motivation to change behavior, strategies to reinforce and sustain improved behavior, identification and removal of barriers to change, and specific ethnic and cultural influences on behavioral change.

• Community-based population-level research—The committee encourages experimental and observational research examining the most important established and novel factors that drive changes in population health, how they are embedded in the socioeconomic and built environments, how they impact obesity prevention, and how they affect society at large with regard to improving nutritional health, increasing physical activity, decreasing sedentary behaviors, and reducing obesity prevalence.

The recommendations that constitute this report's action plan to prevent childhood obesity commence what is anticipated to be an energetic and sustained effort. Some of the recommendations can be implemented immediately and will cost little, while others will take a larger economic investment and require a longer time to implement and to see the benefits of the investment. Some will prove useful, either quickly or over the longer term, while others will prove unsuccessful. Knowing that it is impossible to produce an optimal solution a priori, we more appropriately adopt surveillance, trial, measurement, error, success, alteration, and dissemination as our course, to be embarked on immediately. Given that the health of today's children and future generations is at stake, we must proceed with all due urgency and vigor.

Environmental Solutions to Obesity in America's Youth Conference - Attendees List

Mr. David Acord Obesity Policy Report 1725 K Street NW Suite 506 Washington, District Of Columbia 20006 Ph: 202-887-6320 x116 Fax: 202-887-6335 david.acord@informa.com

Ms. Nina Adelson-Yan Sesame Workshop 1 Lincoln Plaza New York, New York 10023 Ph: (212) 875-6581 nina.adelson-yan@sesameworkshop.org

Mr. Josiah Akintoye DOH EHA Food Protection Division 5621 New Hamshire Ave, NE Washington , District Of Columbia 20011 Ph: 202-535-2165 Fax: 202-535-1359 josiah.akintoye@dc.gov

Mr. Ira Allen Health Behavior News Service 2000 Florida Ave., NW #210 Washington, District of Columbia 20009 Ph: 202-387-2829 iallen@cfah.org

Mr. Bryan Anderson ARDC 221 West First Street Duluth, Minnesota 55802 Ph: 218-529-7529 Fax: 218-529-7592 banderson@ardc.org Ms. Elena Acosta Southern Area Health Education Center 1003 Geothermal Dr. Las Cruces, New Mexico 88011 Ph: 505-646-3441 Fax: 505-646-6413 mariacos@nmsu.edu

Ms. Peggy Agron California Dept of Health Services, California Project LEAN PO Box 997413, MS 7211 Sacramento, California 95899-7413 Ph: 916-552-9883 pagron@dhs.ca.gov

Mr. Lee Allen Allen Financial Advisors, Inc. One Longfellow Place Ste 3708 Boston, Massachusetts 02114 Ph: 617-720-4445 lee.allen@allen-financial.com

Dr. Sylvan Alleyne Howard University-Sch. of Education 2441 4th St. NW Washington, District Of Columbia 20059 Ph: (202) 806-7522 salleyne@howard.edu

Ms. Alia Anderson Alliance for Community Choice in Transportation PO Box 1582 Charlottesville, Virginia 22947 Ph: 434-295-6554 info@transportationchoice.org Ms. Beverly Antunes New Jersey Health Care Quality Institute 81 West Commerce Street Bridgeton, New Jersey 08302 Ph: 856 453 7063 Fax: 856 453 7064 Beverly.antunes@verizon.net

Ms. S. Sonia Arteaga University of Maryland Baltimore County 737 W. Lombard Baltimore, Maryland 21201 Ph: 240-605-7372 sartea1@umbc.edu

Dr. Ruth Asmundson Mayor, City of Davis 23 Russell Blvd. Davis, California 95616 Ph: 530-757-5602 rasmundson@ci.davis.ca.us

Dr. Judith Ausherman Cleveland State University 2121 Euclid Ave. Cleveland, Ohio 44115 Ph: 216.687.4656 Fax: 216.687.5393 j.ausherman@csuohio.edu

Ms. Claire Avant The Cooper Institute 12330 Preston Road Dallas, Texas 75230 Ph: 972-716-7048 cavant@cooperinst.org Ms. Ayesha Anwar Adventist Health Care 1801 Research Boulevard, Suite 300 Rockville, Maryland 20850 Ph: 301-315-3126 Fax: 301-315-3140 aanwar@ahm.com

Dr. Abay Asfaw International Food Policy Research Institute 2033 K Street NW Washington, District Of Columbia 20006 Ph: 202 862 8103 a.asfaw@cgiar.org

Ms. Sweena Aulakh HRSA/MCHB 5600 Fishers Lane Rockville, Maryland 20857 Ph: 3014432756 saulakh@hrsa.gov

Ms. Jean Austin University of Maryland Cooperative Ext 709 Morgnec Rd Chestertown, Maryland 21620 Ph: 410-778-1661 Fax: 410-778-9075 jaustin1@umd.edu

Ms. Sandy Axelrod US General Services Administration 914 South Belgrade Road Silver Spring, Maryland 20902 Ph: 301-649-6697 Fax: 202-205-7388 sandra.axelrod@gsa.gov Ms. Jenna Bacolor Washtenaw County Public Health 555 Towner, HS I Ypsilanti, Michigan 48197 Ph: 734-544-2969 Fax: 734-544-6705 bacolorj@ewashtenaw.org

Dr. Rachel Ballard-Barbash National Cancer Institute 6130 Executive Blvd., EPN #4005, MSC 7344 Bethesda, Maryland 20892 Ph: 301-402-4366 Fax: 301-435-3710 barbashr@mail.nih.gov

Ms. Margaret Barker Cornell University 1459 Cedarhurst Road Shady Side, Maryland 20764 Ph: 410 867-6768 mab27@cornell.edu

Dr. Michele Barnard NIDDK, NIH 6707 Democracy Blvd., Rm. 753 Bethesda, Maryland 20892-5452 Ph: 301-594-8898 Fax: 301-480-3505 barnardm@extra.niddk.nih.gov

Ms. Loren Bausell University of North Carolina at Chapel Hill 105 Fidelity St B12 Carrboro, North Carolina 27510 Ph: 202-320-3981 bausell@email.unc.edu Ms. Stephanie Baker National Institutes of Health 9501 Tulip Tree Drive Bowie, Maryland 20721 Ph: 240-997-6683 bakersl@mail.nih.gov

Dr. Marion Balsam NIH/NICHD 6100 Executive Blvd Bethesda, Maryland 20892 Ph: 301-435-7679 balsamm@mail.nih.gov

Ms. Molly Barker Girls on the Run International 500 E. Morehead Street, Suite 104 Charlotte, North Carolina 28202 Ph: 704-376-9817 Fax: 704-376-1039 molly@girlsontherun.org

Dr. Monica Baskin University of Alabama at Birmingham 1530 3rd Ave S - RPHB 227 Birmingham, Alabama 35294-0022 Ph: 205-975-5704 Fax: 205-934-9325 mbaskin@uab.edu

Dr. Ariane Bedimo-Rung LSU School of Public Health 1600 Canal Street, Suite 800 New Orleans, Louisiana 70112 Ph: 504-556-9854 Fax: 504-568-6905 abedim@lsuhsc.edu Ms. Karin Beecroft Arlington County-School Health 4615 N. 38th St Arlington, Virginia 22207 Ph: 703-228-7676 kbeecroft@arlingtonva.us

Dr. Douglas Bell National Institute of Enviornmental Health Sciences PO Box 12233, MD: C3-03 Research Triangle Park, North Carolina 27709 Ph: 919-541-7686 Fax: 919-541-4634 BELL1@niehs.nih.gov

Ms. Corrine Belt National Institute of Enviornmental Health Sciences PO Box 12233, MD: C3-01 Research Triangle Park, North Carolina 27709 Ph: 919-541-0121 belt@niehs.nih.gov

Ms. Gloria Bent Jacobi Medical Center 1400 Pelham Parkway South Bronx, New York 10461 Ph: 718-9184434 Fax: 718-9187417 gloria.bent@nbhn.net

Ms. Tiffiny Bernichon Battelle CPHRE 2101 Wilson Boulevard, Suite 800 Arlington, Virginia 22201 Ph: 703-875-2146 bernichont@battelle.org Mr. Richard Bell Active Living by Design 400 Market St., #205 Chapel Hill, North Carolina 27516 Ph: 919-843-3078 Fax: 919-843-3083 rich_bell@unc.edu

Dr. David Belluck Federal Highway Administration, U.S. DOT 400 7th St., SW Washington, District Of Columbia 20590 Ph: 202-366-6549 david.belluck@fhwa.dot.gov

Ms. Sandra Bempong Metropolitan Washington Council of Governments 777 North Capitol Street, NE, Suite 300 Washington, District Of Columbia 20002 Ph: 202-962-3275 Fax: 202-962-3204 sabempong@mwcog.org

Ms. Helen Berger Fairfax County Health Dept. 8136 Old Keene Mill Rd. Suite A100 Springfield, Virginia 22152 Ph: (703) 913-8944 Fax: (703) 913-8905 Helen.Berger@fairfaxcounty.gov

Dr. David Berrigan National Cancer Institute 6130 Executive BLVD Bethesda, Maryland 20892 Ph: 301-451-4301 berrigad@mail.nih.gov Mr. Robert Bialas IHS, USPHS 4060 Wheaton Way, Suite E Bremerton, Washington 98310 Ph: 360-792-1235 Fax: 360-792-1314 robert.bialas@ihs.gov

Ms. Jennifer Bistrack University of Maryland 327 Charred Oak Ct Annapolis, Maryland 21401 Ph: 410-349-4599 jbistrac@umd.edu

Ms. Heidi Bonnaffon Private Consultant 9116 Lyon Park Ct. Burke, Virginia 22015 Ph: (703) 869-6354 hbonnaffon@yahoo.com

Dr. Allan Borushek Family Health Network 1001 West 17th St, Suite M Costa Mesa, California 92627 Ph: 949.642 8500 allan@fhnetwork.com

Ms. Barbara Boykin Montgomery County Commission on Health 8230 Bradley Blvd. Bethesda, Maryland 20817 Ph: 301-365-4342 Barbara.boykin@comcast.net Ms. Donna Birmingham Wilmington Head Start, Inc 2401 Northeast Blvd. Wilmington , Delaware 19802 Ph: 302-762-8038 Fax: 302-762-5678 dbirmingham@wilmheadstart.org

Dr. Bettie Blakely University of Maryland Eastern Shore Department of Natural Sciences Princess Anne, Maryland 21853 Ph: 410-651-6066 Fax: 410-651-7571 bwblakely@umes.edu

Ms. Gloria Boone American Medical Association 515 North State Street Chicago, Illinois 60610 Ph: 312-464-4452 Fax: 312-464-5842 gloria.boone@ama-assn.org

Dr. Kevin Boyd Childrens Memorial Hospital/AAPD 1721 N. Halsted Street Chicago, Illinois 60614 Ph: 312-988-9855 Fax: 312-988-9896 k-boyd1@northwestern.edu

Ms. América Bracho Latino Health Access 1717 N. Broadway Santa Ana, California 92706 Ph: 714-542-7792 cachamaure@aol.com Ms. Nancy Brady Garrett County Health Dept. 1025 Memorial Drive Oakland, Maryland 21550 Ph: 301-334-7730 Fax: 301-334-7701 nbrady@dhmh.state.md.us

Dr. Nancy Breen National Cancer Institute EPN 4005, 6130 Executive Blvd Rockville, Maryland 20850 Ph: 301 496 4675 breenn@mail.nih.gov

Mr. Joe BrisBois Sony Computer Entertainment America Ph: 650-655-7394 Joe_BrisBois@playstation.sony.com

Ms. Vicky Brogoitti Union County Commission on Children and Families 1108 K Avenue La Grande, Oregon 97850 Ph: 541-963-1034 Fax: 541-963-1037 Vicky@union-county.org

Mr. Bill Bronrott State Delegate, District 16, Maryland 4415 Rosedale Ave. Bethesda, Maryland 20814 Ph: 301-652-6016 bill@bronrott.com Ms. Emma Brashear Western Maryland Health System 938 National Highway LaVale, Maryland 21502 Ph: 301-759-9355 Fax: 301-724-4791 ebrashear@wmhs.com

Ms. Christy Briner American Society for Clinical Nutrition 9650 Rockville Pike Bethesda, Maryland 20814 Ph: 301-634-7110 Fax: 301-634-7350 cnb122@psu.edu

Ms. Shauna Brittell North Country Hospital 189 Prouty Drive Newport, Vermont 05855 Ph: 802-334-3290 sbrittell@nchsi.org

Ms. Jeanne Bromwell Eastern Shore Area Health Education Center PO Box 795 Cambridge, Maryland 21613 Ph: 410-221-2600 Fax: 410-221-2605 jbromwel@esahec.org

Ms. Andrea Brooks National Institutes of Health 12438 Great Park Circle, #102 Germantown, Maryland 20876 Ph: 240-644-5907 andrea.brooks@hhs.gov Dr. E. Richard Brown UCLA Center for Health Policy Research 10911 Weyburn Avenue, Suite 300 Los Angeles, California 90024 Ph: 310-794-0812 Fax: 310-794-2686 erbrown@ucla.edu

Ms. R. Lorraine Brown HRSA/MCHB 5600 Fishers Lane, Parklawn Bldg 18A-39 Rockville, Maryland 20857 Ph: 301-443-3513 Fax: 301-443-1296 lbrown@hrsa.gov

Ms. Jennifer Browne National Institute of Enviornmental Health Sciences PO Box 12233 Research Trinagle Park, North Carolina 27709 Ph: 919-541-4816 brownej2@niehs.nih.gov

Mr. Stanton Brunner Academy for Educational Development 1825 Connecticut Ave., NW Washington, District Of Columbia 20009 Ph: 202-884-8144 Fax: 202-884-8760 sbrunner@aed.org

Dr. Yvonne Bryan NIH/NINR 6701 Democracy Blvd, One Democracy Plaza, Room 710 Bethesda, Maryland 20892 Ph: 301 594-6908 Fax: 301 480-8260 bryany@mail.nih.gov Mr. David Brown National Institute of Enviornmental Health Sciences PO Box 12233 Research Triangle Park, North Carolina 27709 Ph: 919-541-5111 brown4@niehs.nih.gov

Ms. Von Brown-Wilson DHHS/HRSA 5600 Fishers Lane, Room 16C05 Rockville, Maryland 20747 Ph: 301-594-4309 Fax: 301-594-0089 vwilson@hrsa.gov

Dr. Ross Brownson Saint Louis University School of Public Health 3545 Lafayette Avenue St. Louis, Missouri 63141 Ph: 314-977-8110 Fax: 314-977-3234 brownson@slu.edu

Ms. Christine Bruske National Institute of Environmental Health Sciences PO Box 12233 Research Triangle Park, North Carolina 27709 Ph: 919-541-3665 bruskec@niehs.nih.gov

Ms. Charlene Burgeson National Assn for Sport and Physical Education 1900 Association Drive Reston, Virginia 20191 Ph: 703-476-3410 Fax: 703-476-8316 cburgeson@aahperd.org Ms. Liv Burkey American University 2501 Porter Street NW # 502 Washington, District of Columbia 20008 Ph: 703-282-3951 livburkey@yahoo.com

Dr. Stephanie Burrows National Heart, Lung, and Blood Institute, NIH 31 Center Drive, MSC 2482, Building 31, Room 5A03 Bethesda, Maryland 20892-2482 Ph: 301-594-4279 Fax: 301-402-1056 burrowss@nhlbi.nih.gov

Dr. Richard Canady Office of Science and Technology Policy 1650 Pennsylvania Avenue Washington, District Of Columbia 20502 Ph: 202 456-6061 rcanady@ostp.eop.gov

Ms. Ashley Carlton Washington Partners, LLC 1101 Vermont Ave NW, Suite 400 Washington, District Of Columbia 20005 Ph: 202-349-2309 acarlton@wpllc.net

Ms. Anne Carney Head Start 1644 N. McKinley Road Arlington, Virginia 22205 Ph: 703-241-2040 Fax: 703-241-2666 acarney@arlingtoncap.org Ms. Diane Burnett South Alabama Regional Planning Commission PO Box 1665 Mobile, Alabama 36633 Ph: 251-433-6541 Fax: 251-433-6009 dburnett@sarpc.org

Ms. Brook Calton National Cancer Institute 911 East Capitol Street Unit B Washington, District Of Columbia 20003 Ph: 410-456-7637 caltonb@mail.nih.gov

Dr. William Caplan Kaiser Permanente, USA One Kaiser Plaza 16th Floor Ordqay Bldg Oakland, California 94612 Ph: 510-271-2390 william.caplan@kp.org

Vice Admiral Richard Carmona U.S. Surgeon General Parklawn Building, Room 18-67, 5600 Fishers Lane Rockville, Maryland 20857

Ms. Christina Carpenter Department of Public Health 30 Van Ness, Suite 2300 San Francisco, California 94102 Ph: 415-581-2422 Fax: 415-581-2490 christina.carpenter@sfdph.org Ms. Amanda Cash University of Oklahoma Health Sciences Center 801 NE 13th Street, Room 139 Oklahoma City, Oklahoma 73190 Ph: 405-271-2232 Amanda-cash@ouhsc.edu

Ms. Jean Charles-Azure Indian Health Service 801 Thompson Ave, #331 Rockville, Maryland 20852 Ph: 301-443-0576 Fax: 301-594-6135 jcharles@HQE.ihs.gov

Ms. Ana Chavez CDC/NCHS NHANES 10613 Kenilworth Ave #201 Bethesda, Maryland 20814 Ph: 301-458-4227 Fax: 301-458-4813 achavez@cdc.gov

Ms. Lynne Cherry Kids Growing Food, Cornell University PO Box 127 Thurmont, Maryland 21788 Ph: 301-416-0492 Incherry@aol.com

Ms. Brenda Christie Regional Institute for Children & Adolesents 605 S. Chapel Gate Lans Baltimore, Maryland 21229 Ph: 410-368-7866 Fax: 410-368-7886 bachristierd@yahoo.com Mr. Jim Chandler Town of Jackson/Teton County, Wyoming PO Box 1687 Jackson, Wyoming 83001-1687 Ph: 307-732-8573 Fax: 307-734-3864 jchandler@ci.jackson.wy.us

Ms. Jill Charrabe North Bronx Healthcare Network 1400 Pelham Park South Bronx, New York 10461 Ph: 718-918-6956 jill.charrabe@nbhn.net

Ms. Ruth Chen McMaster University 205-1770 Main Street West Hamilton, Ontario L8S1H1 Ph: 905-528-4788 chenrp@mcmaster.ca

Mr. Keith Christensen Utah State University 6800 Old Main Hill Logan, Utah 84322-6800 Ph: 435-797-3997 keithc@cpd2.usu.edu

Ms. Mei Chung Tufts - NEMC 750 Washington Street, Box 63 Boston, Massachusetts 02111 Ph: 617-636-1524 mchung1@tufts-nemc.org Dr. Claire Cifaloglio Arlington County Dept. of Human Services 3033 Wilson Blvd. Suite 600B Arlington, Virginia 22201 Ph: 703-228-1656 ccifal@arlingtonva.us

Ms. Lisa Clayton Department of Education 400 Maryland Ave Washington, District Of Columbia 20202 Ph: 202-260-0834 Fax: 202-260-7767 lisa.clayton@ed.gov

Ms. Norene Cochran Wellmont Holston Valley Medical Center P. O. Box 238 Kingsport, Tennessee 37662 Ph: 423-224-6149 Fax: 423-224-5869 Norene_Cochran@wellmont.org

Ms. Judy Cole NIDA, NIH 6001 Executive Boulevard, Room 4148, MSC 9551 Bethesda, Maryland 20892 Ph: 301-435-0974 jcole1@nida.nih.gov

Ms. Jessica Collins Tufts University 150 Harrison Ave. Boston, Massachusetts 02111 Ph: 617-636-3563 Fax: 617-636-3781 jessica.collins@tufts.edu Dr. Adam Clark Office of Science and Technology Policy 2301 E St., NW #A510 Washington, District Of Columbia 20037 Ph: 202-293-4245 aclark@ostp.eop.gov

Ms. Nicole Cloninger Prince William County Park Authority 14300 Minnieville Road Dale City, Virginia 22193 Ph: 703-670-7112 x244 ncloning@pwcparks.org

Mr. Carlos Coffman IROPE, Inc. PO Box 2136 Bowie, Maryland 20718 Ph: 301-390-3194 irope@prodigy.net

Ms. Claude Marie Colimon US DHHS Office of Minority Health 26 Federal Plaza Room 3835 New York, New York 10278 Ph: 212-264-2127 Fax: 212-264-1324 ccolimon@osophs.dhhs.gov

Dr. Stephen Combs Gray Station Primary Care 2103 Forest Drive Gray, Tennessee 37615 Ph: 423-239-0221 Stephen_P_Combs@wellmont.org Professor Charlene Compher University of Pennsylvania 2114 Appletree Street Philadelphia, Pennsylvania 19103-1336 Ph: 215-898-3619 Fax: 215-573-3859 compherc@nursing.upenn.edu

Ms. Margaret Connors North Country Health Consortium 646 Union Street, Suite 400 Littleton, New Hampshire 03561 Ph: 603 444-4461 x223 Fax: 603 444-4460 mconnors@nchin.org

Ms. Margaret Copemann Maternal & Family Health Administration 301 Douglas Street, N.E. Washington, District Of Columbia 20002 Ph: 202-724-7227 Fax: 202 576-8004 margaret.copemann@dc.gov

Ms. Cathy Costakis Montana Nutrition and Physical Activity Program 119 HPEC Bozeman, Montana 59717-3360 Ph: 406-994-5734 Fax: 406-994-5699 costakis@montana.edu

Ms. Frances Cox The Fratelli Group 1300 Connecticut Ave., NW Washington, District Of Columbia 20036 Ph: 202-822-9491 Fax: 202-223-0358 fcox@fratelli.com Ms. Mary Concannon Maryland Department of Heatlh & Mental Hygiene 300 W. Preston Street, Suite #200 Baltimore, Maryland 21201 Ph: 410-767-4382 Fax: 410-333-7411 mconcannon@dhmh.state.md.us

Ms. Carolyn Contract Academy for Educational Development 1825 Connecticut Ave Washington, District Of Columbia 20009 Ph: 202-884-8538 Fax: 202-884-8760 ccontract@aed.org

Ms. Nilda Cosco North Carolina State University College of Design, Campus Box 7701 Raleigh, North Carolina 27695 Ph: 919-515-8345 Fax: 919-515-8951 nilda_cosco@ncsu.edu

Dr. Paul Cotton U.S. Department of Agriculture 10300 Baltimore Avenue Beltsville , Maryland 20705 Ph: 301-504-0637 Fax: 301-504-0698 Paul.Cotton@usda.gov

Ms. Mary Coyle Prince George's Community College 4117 37th St NW Washington, District Of Columbia 20008 Ph: 202-537-4885 maraeco@aol.com Ms. Keshia Crosby National League Cities 1301 Pennsylvania Ave. NW Washington, District Of Columbia 20004 Ph: 202-626-3074 fellow@nlc.org

Dr. Andrew Dannenberg Centers for Disease Control and Prevention Centers for Disease Control Chamblee, Georgia 30341 Ph: 770-488-7103 acd7@cdc.gov

Ms. Sarah Dash National Cancer Institute 6130 Executive Blvd Room 4111 Bethesda, Maryland 20892 Ph: 301-594-6654 dashs@mail.nih.gov

Ms. Marie DeArmon National Institutes of Health 108 West College Terrace Frederick, Maryland 21701 Ph: 301-305-1478 mmd5@pitt.edu

Ms. Dona DeZube School Health Professional 5481 Green Dory Lane Columbia, Maryland 21044 Ph: 410-997-7117 dezube@comcast.net Ms. Sharon Custer Garrett County Health Dept. 1025 Memorial Drive Oakland, Maryland 21550 Ph: 301-334-7730 Fax: 301-334-7701 scuster@dhmh.state.md.us

Mr. Aric-James Darroe Kids On The Block 9385-C Gerwig Lane Columbia, Maryland 21046 Ph: 410-290-9095 adarroe@kotb.com

Ms. Karen Dawn International Medical Publishing 2530 Lakevale Dr. Vienna, Virginia 22181-4030 Ph: 703-255-5110 Fax: 703-255-6866 dawnkr@cox.net

Dr. Anthony DeLucia James H. Quillen College of Medicine Box 70575 ETSU Johnson City, Tennessee 37614-0575 Ph: 423-439-6202 Fax: 423-439-8251 delucia@mail.etsu.edu

Dr. Allen Dearry National Institute of Environmental Health Sciences PO Box 12233 Research Triangle Park, North Carolina 27709 Ph: 919-541-3068 dearry@niehs.nih.gov Ms. Diana Degnan-LaFon Kids On the Block 9385 C Gerwig Lane Columbia, Maryland 21046 Ph: 410-290-9095 ddegnan@kotb.com

Ms. Gail Dever Garrett County Health Dept. 1025 Memorial Drive Oakland, Maryland 21550 Ph: 301-334-7730 Fax: 301-334-7701 gdever@dhmh.state.md.us

Ms. Selena Dolan Massachusett Department of Public Health 250 Washington Street, 4th floor Boston, Massachusetts 02108 Ph: 617-994-9860 selena.dolan@state.ma.us

Ms. Karen Donato NHLBI/NIH 31 Center Drive, MSC 2480 Bethesda, MD, Maryland 20892-2480 Ph: 301-496-1051 Fax: 301-402-2405 donatok@nih.gov

Dr. Adam Drewnowski University of Washington - Seattle 305 Raitt Hall, Box 353410 Seattle, Washington 98195 Ph: 206-543-8016 adamdrew@u.washington.edu Dr. Shelli Deskins West Virginia University Health Sciences Center PO Box 9136 Morgantown, West Virginia 26506 Ph: 304-293-6544 Fax: 304-293-7415 sdeskins@hsc.wvu.edu

Dr. Martha Dimes National Institute of Enviornmental Health Sciences EC-15, Bldg 4401, Rm 3155 Research Triangle Park, North Carolina 27709 Ph: 919-541-0674 Fax: 919-541-0273 dimes@niehs.nih.gov

Ms. Elizabeth Donaldson Fairfax County Public Schools 9735 Main Street Fairfax, Virginia 22031 Ph: 703-277-2655 Elizabeth.Donaldson@fcps.edu

Dr. Laurie Donze NCCAM, NIH 6707 Democracy Blvd. suite 401 Bethesda, Maryland 20892 Ph: 301-402-1030 Fax: 301-480-2419 donzeL@mail.nih.gov

Ms. Jean DuRussel-Weston University of Michigan Health System 2850 S. Industrial, Suite 600 Ann Arbor, Michigan 48104-6773 Ph: 734-975-4387 ext.273 Fax: 734-9751138 jdurusse@umich.edu Mr. Adam Dube Central Falls School District 150 Fuller Avenue Central Falls, Rhode Island 02863 Ph: 401-212-6859 ad11ad@hotmail.com

Ms. Taira Duncan National Cancer Institute 6130 Executive Blvd EPN 4051A, MSC 7332 Bethesda, Maryland 20892 Ph: 301-435-2842 duncanta@mail.nih.gov

Ms. Nadine Eads Johns Hopkins University School Of Nursing 525 N. Wolfe St. Baltimore, Maryland 21205 Ph: 703-370-8877 Fax: 703-370-3309 neads1@son.jhmi.edu

Ms. Dana Eckroad Kaiser Permanente 1950 Franklin St, 13th floor Oakland, California 94612 Ph: 510-987-1793 Fax: 510-873-5079 dana.eckroad@kp.org

Ms. Deborah Ellenberg Pennsylvania Advocates for Nutrition & Activity 777 West Harrisburg Pike Educational Activities Bl Middletown, Pennsylvania 17057 Ph: 717-948-6313 Fax: 717-948-6334 dellenberg@panaonline.org Ms. Karen Duderstadt, MS, CPNP National Association of Pediatric Nurse Practioners 1327 Tenth Avenue San Francisco, California 94122 Ph: 415 476-4954 kgd@itsa.ucsf.edu

Dr. Sherry Dunphy Potomac Hospital 2300 Opitz Blvd. Woodbridge, Virginia 22191 Ph: 703-670-1328 Fax: 703-670-0345 sherry.dunphy@potomachospital.com

Ms. Kathy Eckley Physical Education 5443 The Bridle Path Columbia, Maryland 21044 Ph: (410)740-1102 eckleybk@hotmail.com

Dr. Maureen Edwards Maryland Dept. of Health & Mental Hygiene 201 W. Preston Street, Room 319 Baltimore, Maryland 21201 Ph: 410-767-6760 Fax: 410-333-5233 Medwards@dhmh.state.md.us

Ms. Kathy Elliott Garrett County Health Department 1025 Memorial Drive Oakland, Maryland 21550 Ph: 301-334-7730 Fax: 301-334-7701 kelliott@dhmh.state.md.us Dr. Reid Ewing University of Maryland 1112J Preinkert Field House College Park, Maryland 33064 Ph: 301-405-8751 Fax: 301-314-5639 rewing1@umd.edu

Ms. Kathryn Feigenbaum National Institutes of Health 10 Center Drive MSC 1664 Bethesda, Maryland 20892 Ph: 301-451-1655 Fax: 301-480-9675 kfeigenbaum@nih.gov

Dr. Eileen Ferruggiaro USDA/FNS/CND 3201 Belle Cote Drive Burtonsville, Maryland 20866 Ph: 703-305-2893 Eileen.Ferruggiaro@fns.usda.gov

Dr. Nancy Findholt Oregon Health & Science University School f Nursing One University Blvd. La Grande, Oregon 97850 Ph: 541-962-3648 Fax: 541-962-3737 findholt@ohsu.edu

Ms. Louise Finnerty Pepsico, Inc. 700 Anderson Hill Road Purchase, New York 10577 Ph: 914-253-3890 Fax: 914-253-3234 louise.finnerty@pepsi.com Professor Lisa Fagan Towson University 8000 York Rd. Towson, Maryland 21252 Ph: 267-446-0499 Fax: 610-431-7675 LFOT@hotmail.com

Dr. Isabel Fernandez University of Rochester School of Medicine 601 Elmwood Ave., Box 644 Rochester, New York 14642 Ph: 585-275-9554 Fax: 585-461-4532 diana_fernandez@urmc.rochester.edu

Ms. Janie Fields Children's Environmental Health Institute 3800 Island Way Austin, Texas 78746 Ph: 512-657-7405 Fax: 512-328-4604 janie.fields@cehi.org

Ms. Cynthia Finley Johns Hopkins Weight Mgt Ctr 2360 W Joppa Rd., Suite 300 Lutherville, Maryland 21093 Ph: 410-583-2876 CFINLEY@JHMI.EDU

Ms. Brooke Fischer National Institutes of Health 31 Building Center Drive, 4A10, MSC 2480 Bethesda, Maryland 20892 Ph: 301-451-2030 Fax: 301-480-4907 brooke.fischer@hhs.gov Ms. Katrina Floyd George Washington University 1724 Webster St., N.E. Washington, District Of Columbia 20017 Ph: (202) 529-2901 Fax: (202) 529-2894 katrinaburt@netzero.com

Ms. Melissa Fochesato Washtenaw County Public Health 555 Towner St Ypsilanti, Michigan 48197 Ph: 734-544-3083 Fax: 734-544-6705 fochesam@ewashtenaw.org

Ms. Nancy Forlifer Western Maryland Health System 938 National Hwy LaVale, Maryland 21502 Ph: 301-759-9355 Fax: 301-724-4791 nforlifer@wmhs.com

Ms. Sheila Franklin National Coalition for Promoting Physical Activity 1100 H Street, NW Suite 510 Washington, District Of Columbia 20005 Ph: 2024547521 Fax: 2024547598 sfranklin@ncppa.org

Ms. Anissa Freeman Girls on the Run International 500 E. Morehead Street, Suite 104 Charlotte, North Carolina 28202 Ph: 704-376-9816 Fax: 704-376-9817 anissa@girlsontherun.org Ms. Peggy Flynn ETR Associates 4 Carbonero Way Scotts Valley, California 95066 Ph: 831-438-4822 peggyf@etr.org

Dr. Felicia Forbes National Institutes of Health 49 Convent DR Bldg 49 Rm 4B59 Bethesda, Maryland 20892 Ph: 301-402-2037 feason@nhgri.nih.gov

Mr. Luke Forrest NASULGC 1307 New York Ave NW #400 Washington, District Of Columbia 20005 Ph: 2024786021 Iforrest@nasulgc.org

Ms. Brenda Frazee Garrett County Health Department 1025 Memorial Drive Oakland, Maryland 21550 Ph: 301-334-7730 Fax: 301-334-7701 bfrazee@dhmh.state.md.us

Dr. Fred Fridinger Centers for Medicare & Medicaid Services 7500 Security Blvd., MS S1-12-20 Baltimore, Maryland 21244 Ph: 410-786-2035 Fax: 410-786-8004 Frederick.Fridinger@cms.hhs.gov Dr. Maida Galvez Mount Sinai School of Medicine 1 Gustave L Levy Place Box 1512 New York, New York 10023 Ph: 212-241-9063 Fax: 212-241-4309 maida.galvez@mssm.edu

Ms. Yong Gao University of Illinois at Urbana-Champaign 906 S. Goodwin Ave. MC-052 Urbana, Illinois 61801 Ph: 217-333-6398 yunggao@uiuc.edu

Ms. Tracy Garrett Sesame Workshop 418 C Street, NE Washington , District Of Columbia 20002 Ph: 202-547-8530 Fax: 202-547-8532 tracy.garrett@sesameworkshop.org

Dr. Scott Gee Kaiser Permanente 1950 Franklin Street, 13th Fl Oakland, California 94612 Ph: 510-987-4358 scott.gee.kp.org

Mr. Danny Gerber Urban Nutrition Initiative, University of Pennsylvania Ph: 215-898-1600 DGerber@ses.upenn.edu Ms. Emily Gamble Gardiner Government Accountability Office 441 G Street, NW Washington, District Of Columbia 20548 Ph: 202-512-4469 gardinere@gao.gov

Ms. Julie Garfield Connect for Kids 1625 K ST. NW 11TH FL Washington, District Of Columbia 20006 Ph: 202-258-0956 julie@connectforkids.org

Ms. Jacqueline Garrick Resilient Press 2 Narrows Court Silver Spring, Maryland 20906 Ph: 301-570-8124 Fax: 301-570-2279 cptjax@aol.com

Ms. Nancy Gelbard California Dept of Health Services PO Box 997413, MS 7211 Sacramento, California 95899-7413 Ph: 916-552-9949 ngelbard@dhs.ca.gov

Ms. Karen Gerndt Inova Health System 2832 Juniper Street, Suite 201 Fairfax, Virginia 22031 Ph: 703/204-3312 Fax: 703/208-5601 karen.gerndt@inova.com Ms. Susan Ghelman Montgomery County Public Schools Food Service 16644 Crabbs Branch Way Rockville, Maryland 20855 Ph: 301-670-8295 Fax: 301-840-4658 susan_ghelman@mcpsmd.org

Dr. Karen Glanz Emory University, Rollins School of Public Health 1518 Clifton Road, NE Atlanta, Georgia 30033 Ph: 404-727-7536 Fax: 404-727-1369 kglanz@sph.emory.edu

Governor Parris Glendening Smart Growth Leadership Investment 1707 L St., NW, Suite 1050 Washington, District Of Columbia 20036 Ph: 410-268-6050

Ms. Margaret Goldberger Prince William Health Partnership Authority 2296 Opitz Blvd Ste 320 Woodbridge, Virginia 22191 Ph: 703-670-1340 Fax: 703-670-0345 margaret.goldberger@potomachospital.com

Ms. Marelisa Gonzalez Migrant and Seasonal Head Start 1875 Connecticut Ave Washington, District Of Columbia 20009 Ph: 202-884-8575 Fax: 202-884-8732 mgonzalez@aed.org Ms. Frankie Giles National Institutes of Health 6707 Democracy Blvd, Suite 400 Bethesda, Maryland 20892 Ph: 301-594-2286 Fax: 301-480-3063 gilesfr@od.nih.gov

Mr. Rick Glasby Metamedia Training 20251 Century Blvd., Suite 425 Germantown, Maryland 20874 Ph: 301-515-6300 Fax: 301-972-9510 rglasby@metamediausa.com

Ms. Pam Gluck American Trails P.O. Box 491797 Redding, California 96049-1797 Ph: 530-547-2060 Fax: 530-547-2035 pam_gluck@americantrails.org

Ms. Lucy Gomez-Feliciano Logan Square Neighborhood Association 2840 N. Milwaukee Chicago, Illinois 60618 Ph: 773-384-4370 Fax: 773-384-0624 lucygomez@sbcglobal.net

Dr. Joan Goodman Southwestern Indian Polytechnic Institute 9169 Coors RD NW/ P.O. Box 10146 Albuquerque, New Mexico 87184 Ph: 505-346-7709 Fax: 505-346-7713 jgoodman@sipi.bia.edu Ms. Katherine Goodwin National Institutes of Health 6610 Rockledge, Rm 2037 Bethesda, Maryland 20817 Ph: 301-758-5187 goodwik@niaid.nih.gov

Ms. Laura Gougherty University of Michigan-Ann Arbor 41297 Lehigh Lane Northville, Michigan 48167 Ph: 248-347-9612 Ilstock@umich.edu

Ms. Jennifer Greaser Centers for Disease Control and Prevention 200 Independence Ave., SW, Rm. 746 G Washington , District Of Columbia 20201 Ph: 202-690-8598 jgreaser@cdc.gov

Ms. Eriko Grover Indian Health Service 801 Thompson Avenue Suite 120 Rockville, Maryland 20852 Ph: 301-443-1881 Fax: 301-594-6135 egrover@utk.edu

Dr. Joanne Guthrie USDA-ERS 1800 M ST NW Room N-2154 Washington, District of Columbia 20036 Ph: 202-694-5373 Fax: 202-694-5677 jguthrie@ers.usda.gov Ms. Anne Gorfinkel Sesame Workshop One Lincoln Plaza New York, New York 10023 Ph: 212-875-6935 anne.gorfinkel@sesameworkshop.org

Ms. Sarah Gourde Coalition for Environmentally Safe Communities 6642 Fisher Avenue Falls Church, Virginia 22046 Ph: 703-534-8334 smgourde@cesckids.org

Ms. Madeleine Greene University of Maryland Cooperative Extension 3525 L Ellicott Mills Dr Ellicott City, Maryland 21043 Ph: 410-313-1911 Fax: 410-313-2712 mgreene@umd.edu

Ms. Stephanie Grunenfelder Consultant 2332 North Oak Street Falls Church, Virginia 22046 Ph: 703-237-8647 Fax: 703-237-5761 stephanie.grunenfelder@verizon.net

Ms. Erin Hager Johns Hopkins Bloomberg SPH 1546 Sulphur Spring Road Baltimore, Maryland 21227 Ph: 410-706-4139 ehager@jhsph.edu Ms. Samia Hamdan School Nutrition Association 700 S Washington St St 300 Alexandria, Virginia 22314 Ph: 703-739-3900 shamdan@schoolnutrition.org

Mr. Kirk Hamel Central Falls School District 150 Fuller Avenue Central Falls , Rhode Island 02863 Ph: 401-212-6859 ad11ad@hotmail.com

Ms. Joan Hampson Morgan State University 9560 Canterbury Riding Laurel, Maryland 20723 Ph: 301-617-0938 hampsjoan@hotmail.com

Ms. Fanfan Han Tufts University 23 Mason St Somerville, Massachusetts 02144 Ph: (857)928-6103 fanfan.han@tufts.edu

Ms. Constance Hardy Food and Drug Administration 13304 Galvez St Silver Spring, Maryland 20906 Ph: 301-436-1433 Fax: 301-436-2636 CONSTANCE.HARDY@CFSAN.FDA.GOV Ms. Ameena Hameed George Washington University 1704 Albert Terr Mitchellville, Maryland 20721 Ph: 301-249-7108 ARHameed@aol.com

Ms. Lori Hamilton Mountain States Health Alliance 339 Main St Piney Flats, Tennessee 37686 Ph: 423-915-5200 Fax: 423-915-5206 hamiltonla@msha.com

Ms. Robin Hamre Centers for Disease Control and Prevention 4770 Buford Highway MS K-24 Atlanta, Alabama 30341 Ph: 770-488-6050 Fax: 770-488-6500 rhamre@cdc.gov

Ms. Kimberly Haney Potomac Hospital 2300 Opitz Blvd Woodbridge, Virginia 22191 Ph: 703-670-1877 Fax: 703-670-0345 kimberly.haney@potomachospital.com

Dr. William Harlan NIMH/NIH 3503 Windsor Place Chevy Chase, Maryland 20815-4001 Ph: 301-443-3827 wharlan@starpower.net Dr. Carole Harris West Virginia University PO Box 9136, HBRC Morgantown, West Virginia 26506 Ph: (304) 293-1730 Fax: (304) 293-7415 charris@hsc.wvu.edu

Ms. Laura Hatch International Food Information Council 1100 Connecticut Avenue, NW, Suite 430 Washington, District of Columbia 20036 Ph: 202-296-6540 hatch@ific.org

Dr. Corinna Hawkes International Food Policy Research Institute 2033 K Street NW Washington, District Of Columbia 20006 Ph: 202 862 5600 c.hawkes@cgiar.org

Ms. Abigail Hedahl The George Washington University 9480 Virginia Center Blvd Unit #227 Vienna, Virginia 22181 Ph: 703-731-7141 ahedahl@gwu.edu

Ms. Nanci Hellmich USA TODAY 7950 Jones Branch Dr. McLean, Virginia 22108 Ph: 703-854-6516 Fax: 703-854-2108 nhellmich@usatoday.com Ms. B. Michelle Harris University of Maryland 0112 Skinner Building College Park, Maryland 20742 Ph: 301-405-0775 Fax: 301-314-3313 bharris2@umd.edu

Dr. Lynne Haverkos NICHD/NIH 6100 Executive Blvd. Bethesda, Maryland 20892-7510 Ph: 301-435-6881 Fax: 301-480-0230 LH179R@NIH.GOV

Ms. U. Tara Hayden Penn-Cheyney Export Center 3401 Market Street Suite 202 Philadelphia, Pennsylvania 19104 Ph: 215-573-4355 Fax: 215-573-5311 thayden@cceb.med.upenn.edu

Ms. LuAnn Heinen National Business Group on Health 4634 Dupont Avenue South Minneapolis, Minnesota 55419 Ph: 952-842-6524 Iheinen@visi.com

Ms. Marsha Helton Wellmont Holston Valley Medical Center P. O. Box 238 Kingsport, Tennessee 37662 Ph: 423-224-5180 Marsha_R_Helton@wellmont.org Ms. Erin Hennessy Friedman School of Nutrition Science And Policy 150 Harrison Avenue Boston, Massachusetts 02111 Ph: 617-636-3715 Fax: 617-636-3781 erin.hennessy@tufts.edu

Dr. James Hill Univ of Colo At Denver, Hlth Sciences Ctr 4200 E. Ninth Ave C263 Denver, Colorado 80262 Ph: 303-315-9974 Fax: 303-315-9976 james.hill@uchsc.edu

Ms. Arnell Hinkle California Adolescent Nutrition and Fitness Prog. 2140 Shattuck Ave., Suite 610 Berkeley, California 94704 Ph: 510-644-1533 Fax: 510-644-1535 ahinkle@canfit.org

Ms. Gretchen Hofing Michigan State University Extension 1040 S. Winter St., Ste. 2020 Adrian, Michigan 49221 Ph: 517-264-5302 Fax: 517-264-5317 hofinggr@msu.edu

Ms. Stephanie Holmgren National Institute of Enviornmental Health Sciences 111 Alexander Drive, PO Box 11223 Research Triangle Park, North Carolina 27709 Ph: 919-541-2599 holmgren@niehs.nih.gov Ms. Lisa Hesse Girls on the Run 1100 N. Main Street Ann Arbor, Michigan 48104 Ph: 734-323-3572 Fax: 734-930-2924 lisa@girlsontherunsemi.org

Ms. Jessica Hillard American University 25815 Priesters Pond Drive Chantilly, Virginia 20152 Ph: 703-327-5260 fitjess3@aol.com

Ms. Tiffany Hinton National Association of Local Boards of Health 1350 Connecticut Ave NW, Suite 805 Washington, District Of Columbia 20036 Ph: 202-223-4034 tiffany@nalboh.org

Ms. Sally Holbert Land Logics Group 550 Coventry Drive, Suite 2 Mechanicsburg, Pennsylvania 17055 Ph: 717-697-0127 Fax: 717-697-4055 sholbert@landlogicsgroup.com

Ms. Joanna Holsten University of Pennsylvania School of Nursing 511 Brentwood Drive Wilmington, Delaware 19803 Ph: 302-521-0836 Fax: 267-604-0084 jholsten@nursing.upenn.edu Ms. Christine Horan Massachusetts Department of Public Health 5 Randolph Street Canton, Massachusetts 02021 Ph: 781-774-6746 Fax: 781-774-6618 christine.horan@state.ma.us

Dr. M. D. Howard Consumer Healthcare Products Association 900 19th Street NW, Suite 700 Washington, District Of Columbia 20006 Ph: 202-429-3532 Fax: 202-223-6835 mhoward@chpa-info.org

Dr. Katherine Hoy Produce for Better Health Foundation 5341 Limestone Road Wilmington, Delaware 19808 Ph: 302-235-2329 ext 328 khoy@pbhfoundation.org

Dr. Van Hubbard National Institutes of Health 6707 Democracy Boulevard, Rm 631 Bethesda, Maryland 20892-5461 Ph: 301-594-8827 Fax: 301-480-3768 van.hubbard@nih.hhs.gov

Governor Mike Huckabee State of Arkansas Executive Office of the Governor, State Capitol Bl Little Rock, Arkansas 72201 Ph: 501-682-2438 Ms. Kelly Horton Tufts University 22 Ellington Road Apt 2 Somerville, Massachusetts 02144 Ph: 6178944695 kelly.horton@tufts.edu

Dr. Keith Howell Univ North Carolina at Greensboro 229 HHP Bldg Greensboro, North Carolina 27402 Ph: 336-256-2475 Fax: 336-334-3238 howellk@uncg.edu

Ms. Sharon Huang Parents' Action for Children 1875 Connecticut Avenue NW Washington, District Of Columbia 20009 Ph: 202-238-4862 shuang@parentsaction.org

Mr. Andy Hubley ARDC 221 West First Street Duluth, Minnesota 55802 Ph: 218-529-7512 Fax: 218-529-7592 ahubley@ardc.org

Ms. Grace Ibanga National Assoc of County & City Hlth Officials 1100 17th Street, NW, Second Floor Washington, District Of Columbia 20036 Ph: 202-783-5550 gibanga@naccho.org Ms. Olufunmilayo Grace Idowu Merritt College, Oakland, CA 712 Moraga Rd Lafayette, California 94549 Ph: 925-283-4074 Fax: 925-283-4235 graceidowu@msn.com

Dr. Eleanora Isles Howard University 2025 Powder Mill Road Silver Spring, Maryland 20903-1521 Ph: 301-434-0297 Fax: 301-434-0352 eisles@howard.edu

Ms. Corliss Jackson Office of Personnel Management 1900 E Street, NW, Room 7H24 Washington, District Of Columbia 20415 Ph: 202-606-1313 corliss.jackson@opm.gov

Ms. Emily Jadwin NEA Health Information Network 1201 16th St., NW, Suite 521 Washington, District Of Columbia 20036 Ph: (202) 822-7797 ejadwin@nea.org

Ms. Dawanna James University of the District of Columbia 4200 Connecticut Ave NW Washington, District Of Columbia 20008 Ph: 202-274-7115 Fax: 202-274-7130 djames@udc.edu Ms. Jin In Office on Women's Health 200 Independence Ave SW #733E Washington, District Of Columbia 20201 Ph: 2024019546 jin@osophs.dhhs.gov

Ms. Maggie Iverson The George Washington University 2500 Clarendon Blvd, #302 Arlington, Virginia 22201 Ph: 703-868-3103 meiversondc@yahoo.com

Ms. Alice Jackson DOH, EHA, Food Protection Division 800 55th St NE Washington, District Of Columbia 20019 Ph: 202-396-4884 Fax: 202-535-1359 alice.jackson@dc.gov

Ms. Mina Jain National Institutes of Health RMD-Bodg 10, CRC Rm 1-1469, 10 Center Drive Bethesda, Maryland 20892 Ph: 301-451-7551 mina_jain@nih.gov

Dr. Edward Javor National Institutes of Health 10 Center Drive, Room 6-5940 Bethesda, Maryland 20904-1612 Ph: 301-496-2723 edwardj@intra.niddk.nih.gov Ms. Luwanda Jenkins CareFirst Blue Cross Blue Shield Ph: 410-998-6010 luwanda.jenkins@carefirst.com

Dr. Jared Jobe NHLBI 6701 Rockledge Drive Bethesda, Maryland 20892 Ph: 301-435-0407 Fax: 301-480-1773 jobej@nhlbi.nih.gov

Ms. Melissa Johnson President's Council on Physical Fitness and Sports 738-H, 200 Independence Ave. SW Washington, District Of Columbia 20201 Ph: 202-690-5187 Fax: 202-690-5211 mjohnson@osophs.dhhs.gov

Ms. Jennifer Johnston National Institutes of Health 7600 Lynn Drive Chevy Chase, Maryland 20815 Ph: 3016510701 Jennifer.johnston@hhs.gov

Ms. Loretta Jones Department of Health & Human Services 200 Independence Ave., SW, Room 731E Washington, District Of Columbia 20201 Ph: 202-401-9583 Fax: 202-401-4005 Ijones@osophs.dhhs.gov Ms. Jennifer Jimenez ASTHO 1275 K Street, NW Washington, District Of Columbia 20005 Ph: 202-371-9090 jjimenez@astho.org

Ms. Jenné Johns National Nursing Centers Consortium 260 S. Broad Street- 18th Floor Philadelphia, Pennsylvania 19102 Ph: 215-985-2672 jjohns@nncc.us

Dr. Wendy Johnson-Taylor National Institutes of Health 2 Democracy Plaza, 6707 Democracy Blvd, Room 635 Bethesda, Maryland 20892 Ph: 410-715-1564 Fax: 301-480-3788 wj50v@nih.gov

Dr. Catherine Jones Johns Hopkins University - Bayview Medical Center 4940 Eastern Ave AA-2 Baltimore, Maryland 21224-2780 Ph: 410 550-2461 Fax: 410 550-0439 cjone104@jhmi.edu

Ms. Chrissie Juliano Trust for America's Health 1707 H St., NW 7th Floor Washington, District Of Columbia 20006 Ph: 202-223-9870 ext. 204 cjuliano@tfah.org Ms. Karen Kafer National Dairy Council 2101 Wilson Blvd, Suite 400 Arlington, Virginia 22201 Ph: 7034692370 kkafer@usdec.org

Dr. Mireille Kanda NIH/NCMHD 6707 Democracy Blvd, Suite 800 Bethesda, Maryland 20892-5465 Ph: 301-402-1366 Fax: 301-480-4049 kandam@mail.nih.gov

Dr. Lya Karm Kaiser-Permanente 2100 Pennsylvania Ave. NW Washington, District of Columbia 20037 Ph: 202-872-7203 Lya.Karm@kp.org

Ms. Miranda Katsoyannis Centers for Disease Control and Prevention 200 Independence Ave., S.W. Washington, District Of Columbia 20201 Ph: 202-690-8598 Fax: 202-690-7519 abelt@cdc.gov; MTK7@cdc.gov

Dr. Francine Kaufman The Keck School of Med, USC & Children's Health 4650 Sunset Blvd, MS 61 Los Angeles, California 90049 Ph: 310-701-2780 Fax: 323-953-1349 fkaufman@chal.usc.edu Ms. Karen Kafer National Dairy Council 2101 Wilson Blvd, Suite 400 Arlington, Virginia 22201 Ph: 7034692370 kkafer@usdec.org

Ms. Theresa Kanter Centers for Disease Control and Prevention 1600 Clifton Road, NE, E-88 Atlanta, Georgia 30333 Ph: 404-498-3042 Fax: 404-498-3050 tkanter@cdc.gov

Dr. Cheryl Kassed NIDA/Masimax Resources 6001 Executive Blvd., Room 5228 Bethesda, Maryland 20892 Ph: 3015946317 kassedc@mail.nih.gov

Dr. Neal Kaufman UCLA School of Public Health 1401 North Bundy Drive Los Angeles , California 90049 Ph: 310-963-2780 Fax: 310-423-0955 neal.kaufman@cshs.org

Dr. Francine Kaufman Children's Hospital - Los Angeles 4650 Sunset Blvd. Los Angeles, California 90027 Ph: 323-669-4606 fkaufman@chla.usc.edu Dr. Peter Kaufmann National Heart, Lung, And Blood Institute 6701 Rockledge Drive msc 7936 Bethesda, Maryland 20892-7936 Ph: 301-435-2467 Fax: 301-480-1773 kaufmann@nih.gov

Ms. Evelyn Kelly Montgomery County DHHS 8630 Fenton Street, 10th Fl Silver Spring, MD, Maryland 20910 Ph: 240-777-3085 Fax: 240-777-3501 evelyn.kelly@montgomerycountymd.gov

Ms. Rachael Kennedy Alexandria Health Department 4480 King St Alexandria, Virginia 22302 Ph: 703-838-4400 X271 Fax: 703-838-4038 rachael.kennedy@vdh.virginia.gov

Ms. Siri-Datar Khalsa University of Tennessee 1215 Cumberland Ave Room 230 Knoxville, Tennessee 37996-1920 Ph: 865-974-1345 Fax: 865-974-1394 sdkhalsa@utk.edu

Dr. Paulina Kim Christian Community Health Alliance 52 Howe Street New Haven, Connecticut 06511 Ph: 203-430-7755 Fax: 203-907-4025 paulina.kim@whole-person.org Ms. Patricia Kelly University of Michigan 606 Kellogg St. Ann Arbor, Michigan 48105 Ph: 734-883-5073 kellypj8@yahoo.com

Dr. Karen KellyThomas NAPNAP 20 Brace Road, Suite 200 Cherry Hill, New Jersey 08034 Ph: 856-857-9700 Fax: 856-857-1600 kkellythomas@napnap.org

Ms. Janice Kettles Newark Public Schools 21 Quitman Street Newark, New Jersey 07103 Ph: (973)733-6947 Fax: (973)733-6636 Kettles3on3@yahoo.com

Ms. Samantha Kiley, MPH Wilmington Head Start, Inc. 2401 Northeast Blvd. Wilmington , Delaware 19802 Ph: 302-762-8038 Fax: 302-762-5678 skiley@wilmheadstart.org

Dr. Rosalind King NICHD, NIH 6100 Executive Blvd., Room 8B07 Bethesda, Maryland 20892-7510 Ph: 301-435-6986 rozking@mail.nih.gov Ms. Jennifer King The Urban Institute 2100 M Street NW Washington, District Of Columbia 20037 Ph: 202-261-5725 Fax: 202-223-1149 jking@ui.urban.org

Ms. Heather Kitzman The Cooper Institute 12330 Preston Road Dallas, Texas 75230 Ph: 972 341-3287 Fax: 972 341-3226 hkitzman@cooperinst.org

Ms. Suzanne Kohaya Puget Sound Educational Service District 400 SW 152nd St Burien, Washington 98166 Ph: 2063217789 Fax: 2064396942 skohaya@psesd.org

Ms. Lauren Korshak The George Washington University 2201 L St., NW #719 Washington, District Of Columbia 20037 Ph: 202-250-7909 lkorshak@gwu.edu

Dr. Robert Kuczmarski NIDDK, NIH 6707 Democracy Blvd., Rm. 673 Bethesda, Maryland 20892-5450 Ph: 301-451-8354 Fax: 301-480-8300 rk191r@nih.gov Mr. Mark Kissinger Deputy Secretary, NY Health & Human Services 227 State Capitol Albany, New York 12224 Ph: 518-408-2500 Fax: 518-408-2510 Mark.Kissinger@chamber.state.ny.us

Ms. Michelle Kleinman Rockland County Department of Health 50 Sanatorim Road Building J Pomona, New York 10970 Ph: 845-364-3612 Fax: 845-364-3837 kleinmam@co.rockland.ny.us

Ms. Casey Korba American University 2310 Ashmead Pl. NW #6 Washington, District of Columbia 20009 Ph: (202) 885-6214 caseykorba@yahoo.com

Dr. Steven Krosnick National Institutes of Health 6701 Rockledge Drive, Room 3028A, MSC 7770 Bethesda, Maryland 20892 Ph: 301-435-1712 krosnics@csr.nih.gov

Dr. Helen Kwon Columbia University School of Public Health 722 W. 168th Street, 7th Floor New York, New York 10032 Ph: 212-342-0406 helen.kwon@aya.yale.edu Ms. Michele La Merrill University of North Carolina at Chapel Hill 103 Mason Farm Road #4317 MBRB Chapel Hill, North Carolina 27599 Ph: 919-966-7033 Fax: 919-966-3292 malm@med.unc.edu

Ms. Jaime Lanier Fairfax County Health Department 6245 Leesburg Pike Suite 500 Falls Church, Virginia 22044 Ph: 703-237-6052 jaime.lanier@fairfaxcounty.gov

Ms. Carrie Lawlor Food and Drug Administration 1535 P Street, NW, #1 Washington, District Of Columbia 20005 Ph: 301-436-2068 clawlor@cfsan.fda.gov

Ms. Hanh Le KaBOOM! 4455 Connecticut Ave. NW - B100 Washington, District Of Columbia 20008 Ph: 202-464-6072 hanh@kaboom.org

Secretary Michael Leavitt U.S. Department of Health and Human Services 200 Independence Ave, SW Washington, District Of Columbia 20201 Ms. Nancy LaVerda Exponent, Inc. 1730 Rhode Island Ave, NW, #1100 Washington, District Of Columbia 20036 Ph: 202-772-4929 nlaverda@exponent.com

Dr. Jackie Lavigne National Cancer Institute Bldg. 31, Rm. 3A11 Bethesda, Maryland 20892-2440 Ph: 301-451-7290 Fax: 301-496-0775 lavignej@mail.nih.gov

Ms. Kathleen Lazor Montgomery County Public Schools 16644 Crabbs Branch Way Rockville, Maryland 20855 Ph: 301-840-8170 Fax: 301-840-4658 Kathy_Lazor@mcpsmd.org

Ms. Charle League National Institute of Environmental Health Sciences PO Box 12233 Research Triangle Park, North Carolina 27709 Ph: 919-541-5741 league@niehs.nih.gov

Mr. Lyle Lee Northern Navajo Medical Center P.O. Box 160 Shiprock, New Mexico 87420 Ph: 505-368-6843 Fax: 505-368-6324 lyle.lee@ihs.gov Mr. Maurice Lee National Institutes of Health 4011 Lakehouse Rd Beltsville, Maryland 2075 Ph: 301-594-8688 leemaur@od.nih.gov

Ms. Linda Lewis Garrett County Health Dept. 1025 Memorial Drive Oakland, Maryland 21550 Ph: 301-334-7730 Fax: 301-334-7701 Illewis@dhmh.state.md.us

Dr. Gary Liguori North Dakota State University B/B fieldhouse 1J Fargo, North Dakota 58105 Ph: 710.231.8682 Fax: 701.231.8872 gary.liguori@ndsu.edu

Ms. Robin Lindsay High Point University 2432 N. Old Greensboro Rd High Point, North Carolina 27265 Ph: 336-883-1979 Fax: 336-883-1980 robinlindsay@triad.rr.com

Ms. Leslie Linton Active Living Research 3900 Fifth Ave., Ste. 310 San Diego, California 92103 Ph: 619-260-5544 Fax: 619-260-1510 llinton@projects.sdsu.edu Ms. Sabrina Lenoir The Institute for Urban Family Health 16 East 16th Street New York, New York 10003 Ph: 1212-633-0800 ext 338 slenoir@institute2000.org

Dr. Wenjun Li University of Massachusetts Medical School 55 Lake Avenue North, Shaw Building SH2-230 Worcester, Massachusetts 01655 Ph: 508-856-6574 Fax: 508-856-2022 wenjun.li@umassmed.edu

Ms. Sadie Liller Garrett County Health Dept. 1025 Memorial Drive Oakland, Maryland 21550 Ph: 301-334-7730 Fax: 301-334-7701 sliller@dhmh.state.md.us

Ms. Glenda Lindsey Morgan State University 1700 East ColdSpring Lane Baltimore, Maryland 21251 Ph: 410-825-6821 glendalindsey@msn.com

Ms. Rivka Liss-Levinson The George Washington University Psychology Dept., 2125 G St., NW Washington, District Of Columbia 20036 Ph: 202-250-5766 rivka@gwu.edu Ms. Cathy Liverman Institute of Medicine 500 5th St. NW Washington, District Of Columbia 20001 Ph: 202-334-3986 Fax: 202-334-1329 cliverma@nas.edu

Ms. Kara Longo Maryland Department of Health and Mental Hygiene 201 W. Preston St. Baltimore, Maryland 21201 Ph: 410-767-5283 Fax: 410-333-7411 klongo@dhmh.state.md.us

Dr. John Lowe University of Iowa College of Public Health 200 Hawkins Dr., E225 A GH Iowa City, Iowa 52242 Ph: 319-384-5380 Fax: 319-384-5385 john-lowe@uiowa.edu

Ms. Susan Malinowski Saratoga On the Move 6 Coachman Dr. Ballston Spa, New York 12020 Ph: 518-583-8448 Fax: 518-580-4122 smalinowski@saratogacare.org

Dr. Lisa Mancino U.S. Department of Agriculture 1800 M Street, Room N457 Washington, District Of Columbia 20001 Ph: 202-694-5563 Imancino@ers.usda.gov Dr. Matthew Longjohn Consortium to Lower Obesity in Chicago Children 2300 Children's Plaza, Box 157 Chicago, Illinois 60614 Ph: 312-573-7760 mlongjohn@childrensmemorial.org

Dr. Russell Lopez Boston University 715 Albany Street Boston, Massachusetts 02118 Ph: 617 414-1439 Fax: 617 638-4857 rptlopez@bu.edu

Dr. Anne Lusk Harvard School of Public Health 655 Huntington Ave Bldg II Room 341 Boston, Massachusetts 02115 Ph: 617-432-7076 Fax: 617-432-2435 AnneLusk@hsph.harvard.edu

Ms. Maureen Mallette Head Start 1644 N. McKinley Road Arlington, Virginia 22205 Ph: 703-241-2040 Fax: 703-241-2666 mmallette@arlingtoncap.org

Dr. Renu Mansukhani Parents Action for Children 1875 Connecticut Ave. NW Suite 650 Washington, D.C., District Of Columbia 20009 Ph: 571-217-6785 renumansukhani@hotmail.com Ms. Maureen Marchetta The Future of Children/Princeton University 289 Wallace Hall, Woodrow Wilson School Princeton, New Jersey 08544 Ph: 609-258-6976 mmarchet@princeton.edu

Ms. Meg Marcus Fairfax County Health Dept. 8136 Old Keene Mill Rd. Suite A100 Springfield, Virginia 22152 Ph: (703) 913-8925 Fax: (703) 913-8905 Meg.Marcus@fairfaxcounty.gov

Ms. Katy Mastman U.S. Department of Agriculture 905 11th St NE Washington, District Of Columbia 20002 Ph: 703-305-2619 kmastman@hungercenter.org

Dr. Mary Mazanec DHHS/OS/ASPE 200 Independence Ave., SW; Room 447D Washinton DC, District Of Columbia 20201 Ph: 202-690-6051 Fax: 202-260-2524 mary.mazanec@hhs.gov

Dr. David McCarron Academic Network LLC 1221 SW Yamhill, Suite 203 Portalnd , Oregon 97205 Ph: 503-228-3217 dmccarron@academicnetwork.com Ms. Lauren Marchetti UNC Highway Safety Research Center 730 Airport Road, CB 3430 Chapel Hill, North Carolina 27599-3430 Ph: 919-962-7412 Fax: 919-962-8710 lauren_marchetti@unc.edu

Mr. A Martinich Mantrose-Haeuser Co., Inc. 1175 Post Road East Westport, Connecticut 06880 Ph: 203-454-1800 Fax: 203-227-0558 aj.martinich@natureseal.com

Ms. Connie Maxey Chinn Aquatics & Fitness Center 13025 Chinn Park Drive Prince William, Virginia 22192-5073 Ph: (703) 730-1051 Fax: (703) 730-1992 cmaxey@pwcparks.org

Ms. Barbara McCann Mccann Consulting 1439 Monroe St. NW Washington, District Of Columbia 20010 Ph: 202-641-1163 Fax: 202-234-2059 barbara@bmccann.net

Ms. Leyla McCurdy National Environmental Education & Training FDN 1707 H Sreet NW Suite 900 Washington DC , District Of Columbia 20006 Ph: 202-261-6488 Fax: 202-261-6464 mccurdy@neetf.org Ms. Melissa McGowan NIH/NIDDK 9000 Rockville Pike, Building 31 MS 2560 Room 9A06 Bethesda, Maryland 20892 Ph: 301-451-5988 mcgowanm@niddk.nih.gov

Ms. Janice Meer President's Council on Physical Fitness and Sports 738-H, 200 Independence Ave. SW Washington, District Of Columbia 20201 Ph: 202-690-5179 Fax: 202-690-5211 jmeer@osophs.dhhs.gov

Mr. Alejandro Melendez Cooper Centro De La Comunidad 109 Blinman St. New London, Connecticut 06320 Ph: 8604391617 hispanicalliance@hotmail.com

Dr. Janell Mensinger University of Pennsylvania 423 Guardian Dr., Blockley Hall, 6th Fl Philadelphia, Pennsylvania 19104 Ph: 215-573-9723 jmensing@cceb.upenn.edu

Ms. Connie Metcalf Kent County MD Cooperative Extension 709 Morgnec Road, Suite 202 Chestertown, Maryland 21620 Ph: 410-778-1661 conniem@umd.edu Ms. Mary Mccall Public Health Consultants 2314 19th St NW #2 Washington, District Of Columbia 20009 Ph: 202-234-1594 cubammc@aol.com

Ms. Heidi Melancon National Recreation and Park Association 22377 Belmont Ridge Rd Ashburn , Virginia 20148-4501 Ph: 703-858-4730 Fax: 703-729-4753 hmelancon@nrpa.org

Dr. Martin Mendelson Martin Mendelson, MD, PhD 103 King Farm Blvd, E-403 Rockville, Maryland 20850-6054 Ph: 301-519-9385 mendelso@alumni.caltech.edu

Dr. Anwar Merchant McMaster University 237 Barton Street East Hamilton, Ontario L8L 2X2 Ph: 905-527-4322x44610 Fax: 905-527-9642 merchant@ccc.mcmaster.ca

Ms. Barbara Meyer Brevard County Office of Transportation Planning 2725 Judge Fran Jamieson Way, Bldg A Viera, Alabama 32940 Ph: 000-000-0000 bmeyer@brevardmpo.com Mr. Daniel Miera Southern Area Health Education Center PO Box 30001, MSC AHC Las Cruces, New Mexico 88003 Ph: (505) 646-3441 Fax: (505) 646-6413 dmiera@nmsu.edu

Ms. Gail Milbrath Greenfield Bilingual, MPS 1711 S. 35th Street Milwaukee, Wisconsin 53219 Ph: 414 902-8236 Fax: 414 902-8212 gailmilbrath@sbcglobal.net

Ms. Patti Miller Children Now 1212 Broadway, 5th Floor Oakland, California 94612 Ph: 510-763-2444 x105 Fax: 510-763-1974 pmiller@childrennow.org

Ms. Carol Miller Maryland Department of Health & Mental Hygiene 201 West Preston Street Baltimore, Maryland 21201-2399 Ph: 410-767-6782 Fax: 410-333-7411 cmiller@dhmh.state.md.us

Ms. Naomi Mirowitz University of Maryland 259 Congressional Lane Apt. 709 Rockville, Maryland 20852 Ph: 301-984-5892 mirowitz@umd.edu Ms. Leslie Mikkelsen Strategic Allaince for Healthy Food & Activity Env 265 29H street Oakland, California 94611 Ph: 510-444-7738 Fax: 510-663-1280 jasmine@preventioninstitute.org

Mr. Matthew Miller Content That Works 4946 N. Hoyne Chicago, Illinois 60625 Ph: 773-596-5337 matthewm@contentthatworks.com

Ms. Marianne Glass Miller NICHD/NIH Bldg. 31, Rm. 2A32 Bethesda, Maryland 20892 Ph: 301-496-9066 Fax: 301-496-7101 millemag@mail.nih.gov

Dr. Kim Miller University of Kentucky 217 Seaton Center Lexington, Kentucky 40506-0219 Ph: 859-257-4091 Fax: 859-323-1090 kmill5@uky.edu

Dr. Nazrat Mirza Children's National Medical Center 2822 27th St NW Washington, District of Columbia 20008 Ph: 202-884-2529 Fax: 202-884-3386 nmirza@cnmc.org Ms. Nadejda Mishkovsky ICMA 777 North Capitol St NE #500 Washington, District Of Columbia 20002-4201 Ph: (202) 962-3582 Fax: (202) 962-3500 nmishkovsky@icma.org

Ms. Andrea Mitola JHU Bloomberg School of Public Health 129 E. Clement Street Baltimore, Maryland 21230 Ph: 410-986-0212 ahanlon@jhmi.edu

Ms. Deborah Monsegue Howard University, Cancer Center 2041 Georgia Ave, NW Washington, District of Columbia 20060 Ph: 202-865-4653 Fax: 202-667-1686 dmonsegue@howard.edu

Professor Robin Moore North Carolina State University College of Design, Campus Box 7701 Raleigh, North Carolina 27695 Ph: 919-515-8344 Fax: 919-515-8951 robin_moore@ncsu.edu

Ms. Peggy Moorehead Edward C. Mazique Parent Child Center 1719 13th Street NW Washington DC, District Of Columbia 20009 Ph: 202 462 3375 Fax: 202 939 8696 pmoorehead@ecmpcc.org Dr. Claudette Mitchell St Thomas More Nursing & Rehab Center 21 Riggs Road, NE # 307 Washington, District Of Columbia 20011 Ph: 202-251-3130 Fax: 202-882-5027 cmitchell@stthomasmorenh.com

Ms. Alicia Moag-Stahlberg Action for Healthy Kids 4711 Golf Road, Suite 806 Skokie, Illinois 60076 Ph: 847-329-1803 Fax: 847-329-1849 alicia@actionforhealthykids.org

Ms. Teresa Moore Maryland Department of Health and Mental Hygiene NPA Program, 201 W. Preston Street Baltimore,, Maryland 21201 Ph: 410-767-5781 Fax: 410-333-7411 tmoore@dhmh.state.md.us

Dr. Kelly Moore IHS Division of Diabetes Treatment and Prevention 5300 Homestead Road NE Albuquerque, New Mexico 87110 Ph: 505-248-4182 Fax: 505-248-4188 kelly.moore@ihs.gov

Dr. Kimberly Morland Mount Sinai School of Medicine One Gustave L. Levy Place New York, New York 10029 Ph: 212-241-7531 Fax: 212-996-0407 kimberly.morland@mssm.edu Dr. Gregory Morosco National Heart, Lung, and Blood Institute 31 Center Drive MSC 2480 Bethesda, Maryland 20892-2480 Ph: 391-496-5437 Fax: 301-480-4907 moroscog@nhlbi.nih.gov

Ms. Gretchen Mottice Private Practice 1225 Roundhill Road Baltimore, Maryland 21218 Ph: 433-904-4148 gmottice@verizon.net

Ms. Karen Murphy Mantrose-Haeuser Co., Inc. 1175 Post Road East Westport, Connecticut 06880 Ph: 203-454-1800 Fax: 203-221-7877 karen.murphy@mantrose.com

Mr. David Nash National Library of Medicine 8600 Rockville Pike Bldg 38 2S-12 Bethesda, Maryland 20721 Ph: 301-594-7537 Fax: 301-496-4450 nashd@mail.nlm.nih.gov

Mr. Jimmy Newkirk North Carolina Division of Public Health 1915 Mail Service Center Raleigh, North Carolina 27699-1915 Ph: 919-715-3348 Fax: 919-715-0433 jimmy.newkirk@ncmail.net Ms. Marya Morris American Planning Association 122 S. Michigan Ave., Suite 1600 Chicago, Illinois 60603 Ph: 312-786-6375 mmorris@planning.org

Ms. Ivana Mrvalj High Point University 804-22 Remount Ct. Greensboro, North Carolina 27409 Ph: 336-2550672 mrvali03@highpoint.edu

Ms. Christina Mushi Saint Louis University School of Public Health 3545 Lafayette Ave St. Louis, Missouri 63118 Ph: 314-977-3213 mushic@slu.edu

Mr. Jeff Neistadt National Association of Local Boards of Health 1840 East Gypsy Lane Road Bowling Green, Ohio 43402 Ph: 419-353-7714 Fax: 419-352-6278 jeff@nalboh.org

Ms. Linh Nguyen Nguyen 150 Bowsprit Court Gaithersburg, Maryland 20877 Ph: 301-2089483 nguyel00@hotmail.com Ms. Nga Nguyen NHLBI, NIH 31 Center Drive, Bldg 31, Rm 5A21 Bethesda, Maryland 20892 Ph: 301-496-4653 Fax: 301-402-3686 nguyenn@nhlbi.nih.gov

Ms. Karen O'Rourke Maine Center for Public Health 12 Church St. Augusta, Maine 04330 Ph: 207-629-9272 Fax: 207-629-9277 korourke@mcph.org

Dr. Kenneth Olden National Institute of Environmental Health Sciences PO Box 12233 Research Triangle Park, North Carolina 27709 Ph: (919) 541-3201 olden@niehs.nih.gov

Ms. Malissa Ortiz Children's Defense Fund 25 E Street NW Washington, District Of Columbia 20001 Ph: 202-662-3575 Fax: 202-662-3560 mortiz@childrensdefense.org

Ms. Matilde Palmer Children's National Medical Center 1630 Euclid St, NW Washington, DC, District Of Columbia 20009 Ph: 202-884-5539 Fax: 202-884-5554 mpalmer@cnmc.org Dr. Greg Norman University of California - San Diego 8950 Villa La Jolla Drive, Suite B-122 La Jolla, California 92037 Ph: 858-457-7296 Fax: 858-622-1463 gnorman@ucsd.edu

Ms. Lea Susan Ojamaa Massachusetts Department of Public Health 250 Washington Street, 4th Floor Boston, Massachusetts 02108 Ph: 617-994-9843 lea.ojamaa@state.ma.us

Dr. Deborah Olster National Institutes of Health Room 256, Building 1, One Center Drive Bethesda, Maryland 20892 Ph: 301-451-4286 olsterd@od.nih.gov

Ms. Anna Maria Padlan Health Resources and Services Administration 5600 Fishers Lane Rockville, Maryland 20857 Ph: 301-443-4726 APadlan@hrsa.gov

Ms. Mia Papas Johns Hopkins University 1920 A East Pratt Street Baltimore, Maryland 21231 Ph: (410)-534-4847 mpapas@jhsph.edu Dr. Marie-Claude Paquette Institut National De Santé Public Du Québec 500 Rene-Levesque Ouest, Bureau 9.100 Montréal, Quebec H2Z 1W7 Ph: (514) 864-1540 marie-claude.paquette@inspq.qc.ca

Dr. Delores Parron National Institutes of Health 2 Center Drive, Bldg.2 Rm. 5W07 Bethesda, Maryland 20892 Ph: 301-451-9677 Fax: 301-402-3360 parrond@mail.nih.gov

Ms. Maria Patriciu General Info 18700 Walkers Choice Road Apt #526 Montgomery Village, Maryland 20886 Ph: 301-527-8991 puiapat@yahoo.com

Ms. Elizabeth Patton Prince William Interfaith Volunteer Caregivers 14010 Fitzwater Dr. Nokesville, Virginia 20181 Ph: 703-594-2072 eapatton@erols.com

Ms. Erica Pearson George Washington University 8000 Hamilton Spring Rd Bethesda, Maryland 20817 Ph: 301-469-8979 chachi@gwu.edu Ms. Jessica Parrish NIMH, NIH 9804 Dairyton Ct Montgomery Village, Maryland 20886 Ph: 301-594-9145 parrishj@mail.nih.gov

Dr. D.G. Patel NIDDK/NIH 6707 Democracy Blvd Bethesda, Maryland 20892 Ph: 301-594-7682 Fax: 301-480-35-5 pateldg@niddk.nih.gov

Dr. Robert Patterson Temple University Temple University 062-56 Philadelphia, Pennsylvania 19122 Ph: 215-204-1665 Fax: 215-204-1854 robert.patterson@temple.edu

Dr. Lori Pbert University of Massachusetts Medical School 55 Lake Avenue North Worcester, Massachusetts 01655 Ph: 508 856-3515 Fax: 508 856-3840 lori.pbert@umassmed.edu

Ms. Bonnie Peck New Dimension Nutrition 12024 Walnut Branch Rd Reston, Virginia 20194 Ph: 703-742-3854 Blsp@aol.com Dr. John Peters The Procter & Gamble Company 11810 E. Miami River Rd. Cincinnati, Ohio 45252 Ph: 513 627 1933 Fax: 513 627 1940 peters.jc.1@pg.com

Ms. Emily Pickren American Planning Association 1776 Massachusetts Ave NW #400 Washington, District Of Columbia 20036 Ph: 202-349-1007 epickren@umich.edu

Ms. Patricia Pinales Fairfax County Health Department 1850 Cameron Glen Drive Suite 100 Reston, Virginia 20190 Ph: 703 481-4078 Fax: 703 787-8278 patricia.pinales@fairfaxcounty.gov

Ms. Susan Pleiss City of Charlottesville Parks and Recreation 1300 Pen Park Rd. Charlottesville, Virginia 22901 Ph: 434-970-3585 Fax: 434-970-3889 pleiss@charlottesville.org

Ms. Keshia Pollack Johns Hopkins University 624 N Broadway, Room 539 Baltimore, Maryland 21218 Ph: 631-334-5127 kpollack@jhsph.edu Ms. Susan Phillips Connect for Kids 1625 K Street NW Washington, District Of Columbia 20006 Ph: 202-454-5654 susan@connectforkids.org

Dr. Marealita Pierce University of Chicago 800 E. 55th Street Chicago, Illinois 60615 Ph: 773-834-3936 Fax: 773-834-1909 mpierce@peds.bsd.uchicago.edu

Ms. Shaaren Pine George Washington University 1220 Linden Place, NE Washington, District Of Columbia 20002 Ph: 202.309.0126 pine_sh@hotmail.com

Ms. Lucy Polk Office of Personnel Management 1900 E. Street Washington, District Of Columbia 22310 Ph: 202-606-8485 Fax: 202-418-9939 Lucy.Polk@opm.gov

Dr. Barry Popkin University of North Carolina at Chapel Hill CB 8120 University Square CPC Chapel Hill , North Carolina 27514 Ph: 919-942-7827 popkin@unc.edu Ms. Fernanda Porto Carreiro Children's National Medical Center 11909 Seven Locks Road Potomac, Maryland 20854 Ph: 301-461-2659 fportoca@cnmc.org

Dr. Judith Prask Montgomery College 9740 Whetstone Drive Gaithersburg, Maryland 20886 Ph: 301-330-1907 hjpjap@comcast.net

Mr. Ron Prince University of Wiscsonin Medical School 777 S. Mills St. Madison, Wisconsin 53715 Ph: 608-263-2228 Fax: 608-263-5813 Ron.Prince@fammed.wisc.edu

Ms. Lori Purdie National Institutes of Health 10 Center Drive 7D53 Bethesda, Maryland 20892 Ph: 301-451-0675 Fax: 301-480-9675 Ipurdie@cc.nih.gov

Ms. Veronica Ramirez Montgomery County Dept. of Health & Human Services 1301 Piccard Dr., Suite 4200 Rockville, Maryland 20817 Ph: 240-777-1543 Fax: 240-777-1860 veronica.ramirez@montgomerycountymd.gov Ms. Terracita Powell National Institutes of Mental Health 3317 Sir Thomas Drive #13 Silver Spring , Maryland 20904 Ph: 703-400-7656 terracitapowell@mail.nih.gov

Dr. Charlotte Pratt NIH/NHLBI/DECA 6701 Rockledge Drive Bethesda, Maryland 20892 Ph: 301-435-0382 Fax: 301-480-1669 prattc@nhlbi.nih.gov

Dr. Rebecca Puhl Yale University 7338 Narrow Wind Way Columbia, Maryland 21046 Ph: 443 283-6101 rebeccapuhl@comcast.net

Dr. Codruta Rafiroiu Cleveland State University 2451 Euclid Ave, PE Bldg., Room 226 Cleveland, Ohio 44115 Ph: 216-687-4873 Fax: 216-687-5410 a.rafiroiu@csuohio.edu

Ms. Ingrid Ramos Dorchester County Health Department 3 Cedar St Cambridge, Maryland 21613 Ph: 410 901-8168 Fax: 410 901-8198 mussteps@intercom.net Mr. Jeff Ranous American Heart Association 2850 Dairy Drive, #300 Madison, Wisconsin 53188 Ph: 608-221-8866 jeff.ranous@heart.org

Ms. Karen Regan NIH Division of Nutrition Research Coordination 2 Democracy Plaza, 6707 Democracy Blvd, Rm 640 Bethesda, Maryland 20892-5461 Ph: 301-435-6199 Fax: 301-480-3768 kr184x@nih.gov

Dr. Mary Rife Rife Communications 6931 Arlington Road, #301. Bethesda, Maryland 20015 Ph: 202-907-9066 Fax: 202-907-6690 marylou@rifecommunications.com

Mr. Nate Robinson Masimax Resources, Inc. C/O AHRQ 540 Gaither Rd Rockville, Maryland 20850 Ph: 301-427-1241 Fax: 301-427-1275 nrobinso@ahrq.gov

Ms. Kimberly Rock Academy for Educational Development 1875 Connecticut Avenue, NW Washington , District Of Columbia 20009 Ph: 202-884-8662 Fax: 202-884-8660 krock@aed.org Dr. George Reed University of Massachusetts Medical School 55 Lake Ave, N, Shaw Bldg SH2-224 Worcester, Massachusetts 01655 Ph: 508-856-4055 Fax: 508-856-2022 george.reed@umassmed.edu

Ms. Julie Reynolds Partnership for Healthier Kids 8003 Forbes Place, Suite 102 Springfield, Virginia 22151 Ph: 703-321-1979 Fax: 703-321-1999 julie.reynolds@inova.com

Ms. Lizette Rivera Office of Minority Health Resource Center 1101 Wootton Parkway Rockville, Maryland 20852 Ph: 202-213-1993 Irivera@omhrc.gov

Dr. JaMuir Robinson National Cancer Institute 6116 Executive Boulevard, Suite 202, Room 2032 Rockville, Maryland 20852 Ph: 301-496-9724 Fax: 301-496-7063 robinjam@mail.nih.gov

Ms. Valerie Rogers National Assoc. of County & City Health Officials 1100 17th Street, NW, 2nd Fl Washington, District Of Columbia 20036 Ph: 202-783-5550 Fax: 202-783-1576 vrogers@naccho.org Mr. Gregg Rollins Intratherm LLC PO Box 10528 Conway, Arkansas 72034 Ph: 501-779-3849 Fax: 775-307-4569 grollins@seccorpadv.com

Ms. Rena Roseman Health Education 11306 Hollowstone Drive Rockville, Maryland 20852 Ph: 301-230-3179 Fax: 301-230-9495 RRose1818@aol.com

Dr. Mercedes Rubio American Sociological Association 1307 New York Avenue, Suite 700 Washington, District Of Columbia 20005 Ph: 202-383-9005 ext 321 Fax: 202-638-0882 rubio@asanet.org

Dr. Andrew Rundle Columbia University 722 west 168th street rm730 New York, New York 10040 Ph: 212 305 7619 agr3@columbia.edu

Dr. James Rye West Virginia University P.O. Box 6122, Allen Hall Morgantown, West Virginia 26506-6122 Ph: 304 293 3442 x1326 Fax: 304 293 3802 jim.rye@mail.wvu.edu Ms. Karen Roof K Roof Envirohealth Consulting 2940 Basingdale Blvd. Ste 1 Vail, Colorado 81657 Ph: 202-285-6061 Keroof@comcast.net

Ms. Lisa Rother Montgomery County Executive 100 Maryland Avenue Rockville, Maryland 20850 Ph: 240-777-2593 lisa.rother@montgomerycountymd.gov

Ms. Meryl Rukenbrod Partnership for Healthier Kids 8003 Forbes Place, Suite102 Springfield, Virginia 22151 Ph: 703-321-1969 Fax: 703-321-1999 meryl.rukenbrod@inova.com

Ms. Berenice Rushovich University of Maryland 202 Old Crossing Drive Baltimore, Maryland 21208 Ph: 410-653 2815 Fax: 410-563-6205 brushovi@umd.edu

Ms. Sheila Rye West Virginia University 955 Hartman Run Road, Suite 100 Morgantown, West Virginia 26506-6275 Ph: 304-293-1713 Fax: 304-293-5771 srye@hsc.wvu.edu Dr. Brit Saksvig University of Maryland 2809 Boston Street, Suite 7 Baltimore, Maryland 21224 Ph: 410-563-6200 x206 Fax: 410-563-6205 bsaksvig@umd.edu

Dr. David Salvesen University of North Carolina at Chapel Hill Hickerson House, CB# 3410 Chapel Hill, North Carolina 27599 Ph: 919-962-7045 salvesen@unc.edu

Mr. Bill Sanda Weston A. Price Foundation PMB 106-380, 4200 Wisconsin Avenue, NW Washington, District Of Columbia 20016 Ph: 202-363-4394 Fax: 202-363-4396 bsanda@verizon.net

Ms. Julia Sanzen American University 4100 Massachusetts Ave Apt903 Washington, District of Columbia 20016 Ph: 518-573-7418 Jules21935@aol.com

Mr. Robin Satcher Howard University 15 Seaton Place NW #2 Washington, District Of Columbia 20001 Ph: 202-285-3876 rsatcher@howard.edu Dr. Etta Saltos CSREES, USDA 1400 Independence Ave, SW Mail Stop 2241 Washington, District Of Columbia 20250-2241 Ph: 202-401-5178 Fax: 202-205-3641 esaltos@csrees.usda.gov

Ms. Dana Sampson National Institutes of Health 1 Center Drive Bldg 1 Rm 256 Bethesda, Maryland 20892 Ph: 301-451-9514 Sampsond@od.nih.gov

Ms. Angie Sanders National Institute of Enviornmental Health Sciences PO Box 12233, MD: B2-08 Research Triangle Park, North Carolina 27709 Ph: 919-541-0131 Fax: 919-541-1994 sanders5@niehs.nih.gov

Dr. Anne Sassaman National Institute of Enviornmental Health Sciences PO Box 12233, MD: EC 20 Research Triangle Park, North Carolina 27709 Ph: 919-541-7723 Fax: 919-541-2843 owens3@niehs.nih.gov

Dr. Raja'a Satouri Fairfax County Health Department 10777 Main Street Fairfax, Virginia 22030 Ph: 703-246-8665 rsatou@fairfaxcounty.gov Ms. Mary Ellen Savarese DHHS/NIH 301 North Stonestreet Ave. Rockville, Maryland 20892 Ph: 301-402-8180 savaresm@mail.nih.gov

Ms. Carol Schechter Academy for Educational Development 1825 Connecticut Ave., NW Washington, District Of Columbia 20009 Ph: 202-884-8931 Fax: 202-884-8760 cschecht@aed.org

Dr. Tom Schmid Centers for Disease Control and Prevention 1030 Burton Drive Atlanta, Georgia 30329 Ph: 770 488 5471 Fax: 770 488 5473 tls4@cdc.gov

Dr. David Schwartz National Institute of Environmental Health Science PO Box 12233 Research Triangle Park, North Carolina 27709 Ph: 919-541-3201

Ms. Kimberly Scott U.S. GAO 441 G. St, N.W. Room 5A34B Washington, District Of Columbia 20548 Ph: 202-512-4845 Fax: 202-512-4778 scottka@gao.gov Ms. Cheryl Sbarra Mass. Assoc. of Health Boards 63 Shore Rd., Suite 25 Winchester, Massachusetts 01890 Ph: 781-721-0183 Fax: 781-729-5620 sbarra@mahb.org

Dr. Sandra Schlicker American Society for Clinical Nutrition 9650 Rockville Pike Bethesda, Maryland 20814 Ph: 301-634-7110 Fax: 301-634-7350 sschlick@ascn.faseb.org

Dr. Marlene Schwartz Yale University Dept. of Psychology PO Box 208205 New Haven, Connecticut 06520-8205 Ph: 203-432-0662 marlene.schwartz@yale.edu

Dr. Jeffrey Schwimmer University of California - San Diego 200 West Arbor Drive San Diego, California 92103-8450 Ph: 619-543-7544 Fax: 619-543-7537 jschwimmer@ucsd.edu

Ms. Laura Segal Trust for America's Health 1707 H Street, NW, 7th floor Washington, District Of Columbia 20006 Ph: 202-223-9870 ext 278 Isegal@tfah.org Ms. Roshni Shah Children's Defense Fund 25 E Street, N.W. Washington, District Of Columbia 20001 Ph: 832-443-0075 rhs2107@columbia.edu

Ms. Angela Sharpe Consortium of Social Science Associations 1522 K Street, NW, Suite 836 washington, District Of Columbia 20005 Ph: 202-842-3525 Fax: 202-842-2788 alsharpe@cossa.org

Dr. Mary Shaw American Planning Association 1776 Massachusetts Ave NW Ste 400 Washington, District Of Columbia 20036 Ph: 202-349-1009 mshaw@planning.org

Ms. Sandra Shrout Montgomery County Public Schools 16644 Crabbs Branch Way Rockville, Maryland 20855 Ph: 301-840-8194 Fax: 301-840-4658 sandra_shrout@mcpsmd.org

Dr. Lynn Silver New York City Dept. of Health & Mental Hygiene Bureau of Chronic Disease Prevention & Control 2 Lafayette Street, 20th Floor, New York, New York 10007 Ph: 212-676-2178 Fax: 212-676-2161 Isilver@health.nyc.gov Ms. Ruth Shantz Chelsea Community Hospital 775 S. Main St. Chelsea, Michigan 48118 Ph: 734-475-3911 Fax: 734-475-4066 rshantz@cch.org

Mr. Kevin Shaver Ottawa County Health Department 12251 James St. Suite 400 Holland, Michigan 49424 Ph: 616-393-5799 Fax: 616-393-5643 kshaver@co.ottawa.mi.us

Ms. Lenora Sherard Montgomery Co. MD Dept of Health & Human Services 2424 Reedie Drive, Suite 238 Wheaton, Maryland 20902 Ph: 240-777-1708 Fax: 240-777-3295 lenora.sherard@montgomerycountymd.gov

Ms. Rebecca Shupe Ottawa County Health Department 12251 James St. Suite 400 Holland, Michigan 49426 Ph: 616-393-5791 Fax: 616-393-5643 rshupe@co.ottawa.mi.us

Ms. Adelle Simmons U.S. Department of Health and Human Services 200 Independence Ave., SW Washington, District Of Columbia 20201 Ph: 202-690-6870 ADELLE.SIMMONS@HHS.GOV Ms. Cindy Sizemore, MS, RD North Bronx Healthcare Network 1400 Pelham Pkwy South Rm 5B4 Bronx, New York 10128 Ph: 718-918-4119 Fax: 718-918-4170 cindy.sizemore@nbhn.net

Ms. Rhonda Smith Howard University 2251 Sherman Ave., N.W. Apt. 1041 E Washington, District of Columbia 20001 Ph: (202) 612-9277 rhosmith1993@yahoo.com

Ms. Kathleen Smith Food & Drug Administration 5100 Paint Branch Prkwy (HFS-800) College Park, Maryland 20740-3835 Ph: 301.436.1462 Fax: 301.436.2639 Kathleen.Smith@cfsan.fda.gov

Ms. Ann Smith Dana-Farber Cancer Institute 48 Maple Avenue Cambridge, Massachusetts 02139 Ph: 617-547-1067 annlmsmith@cs.com

Ms. Cinnamon Smith University of Kansas 3550 Rainbow Blvd #126 Kansas City, Kansas 66103 Ph: 913-722-1186 csmith6@kumc.edu Ms. Ernestine Smartt National Institutes of Health 6610 Rockledge Dr. Rm. 3069 Bethesda, Maryland 22042 Ph: 301-496-7353 Fax: 301-402-0175 es23r@nih.gov

Ms. Jasmin Smith Americorps 1933 S Downing Denver, Colorado 80210 Ph: 816-289-6560 jasmin.smith@gmail.com

Dr. Ashley Smith National Cancer Institute 6130 Executive Boulevard, MSC 7344 Bethesda, Maryland 20892-7344 Ph: 301-451-1843 Fax: 301-435-3710 smithas@mail.nih.gov

Dr. Ashley Smith National Cancer Institute 6130 Executive Boulevard, Rm 4019, MSC 7344 Bethesda, Maryland 20892-7344 Ph: 301-451-1843 Fax: 301-435-3710 smithas@mail.nih.gov

Dr. Shadrach Smith Truman Medical Center 6425 Holmes Kansas City, Missouri 64131 Ph: (816)333-7172 Fax: (816)404-3856 shadrach.smith@tmcmed.org Ms. Mary Smolskis NIAID, NIH 6610 Rockledge Drive Bethesda, Maryland 20892 Ph: 301-451-3230 Fax: 301-402-0175 msmolskis@niaid.nih.gov

Ms. Denise Sofka DHHS/HRSA/MCHB 5600 Fishers Lane, Rm. 18A55 Rockville, Maryland 20857 Ph: 301-443-0344 Fax: 301-443-4842 dsofka@hrsa.gov

Ms. Amanda Spake US News and World Report 1050 Thomas Jefferson St. N.W. Washington, District Of Columbia 20733 Ph: 202-955-2134 aspake@usnews.com

Dr. Shobha Srinivasan National Institute of Enviornmental Health Sciences 111 TW Alexander Drive, MD EC 21 Research Traingle Park, North Carolina 27709 Ph: 919-541-2506 Fax: 919-316-4606 ss688k@nih.gov

Ms. Marion Standish The California Endowment 21650 Oxnard St., Suite 1200 Woodland Hills, California 91367 Ph: 800-449-4149 mstandish@calendow.org Dr. Lois Snow Loudon County Schools 100 River Road Loudon , Tennessee 37774 Ph: 865-458-5411 ext. 104 snowl@loudoncounty.org

Ms. Jessica Solomon NACCHO 1100 17th St NW, Suite 200 Washington, District Of Columbia 20036 Ph: 202-783-5550 jsolomon@naccho.org

Ms. Mary Spear Fairfax County Public Schools 9735 Main St Fairfax, Virginia 22031 Ph: 703-277-6724 mespear@fcps.edu

Ms. Rebecca Stametz Pennsylvania Advocates for Nutrition & Activity 777 West Harrisburg Pike Educational Activities Bl Middletown, Pennsylvania 17057 Ph: 717-948-6314 Fax: 717-948-6334 rstametz@panaonline.org

Dr. Pamela Starke-Reed National Institutes of Health 6707 Democracy Blvd, Rm 633 Bethesda, Maryland 20892 Ph: 301-594-8805 Fax: 301-480-3768 ps39p@nih.gov Dr. Myrlene Staten NIDDK, NIH 6706 Democracy Blvd, Rm 6107 Bethesda, Maryland 20892 Ph: 301-402-7886 Fax: 301-480-3503 statenm@niddk.nih.gov

Ms. Tambra Stevenson US Dept of Health and Human Services 38 T St NW Washington, District Of Columbia 20001-1009 Ph: 617-877-9508 tambra.stevenson@hhs.gov

Ms. Leslie Stone Chinn Aquatics & Fitness Center 13025 Chinn Park Drive Prince William, Virginia 22192-5073 Ph: (703) 730-1051 Fax: (703) 730-1992 Istone@pwcparks.org

Ms. Jennifer Strassfeld American Society of Landscape Architects 636 Eye Street NW Washington, District Of Columbia 20001 Ph: 2022167852 jstrassfeld@asla.org

Ms. Sarah Strunk Active Living By Design 400 Market Street, Suite 205 Chapel Hill, North Carolina 27516 Ph: 919-843-3122 Fax: 919-843-3083 sarah_strunk@unc.edu Dr. Kevin Stephens City of New Orleans Health Department 1300 Perdido Street New Orleans, Louisiana 70112 Ph: 504-658-2506 Fax: 504-658-2520 kustephens@cityofno.com

Ms. Ciara Stewart Thomas Jefferson University Hospital 2101 Chestnut Street apt 813 Philadelphia, Pennsylvania 19103 Ph: 267-226-7405 cstewart@alumni.upenn.edu

Dr. Kate Stoney National Institutes of Health 6707 Democracy Blvd Bethesda, Maryland 20892 Ph: 301-402-1272 stoneyc@mail.nih.gov

Dr. Ronald Strum RAND 1776 Main Street Santa Monica, California 90407-2138

Ms. Carole Sugarman Food Chemical News 1725 K St. NW Suite 506 Washington DC, District Of Columbia 20036 Ph: 202-887-6320 ext. 124 carole.sugarman@informa.com Ms. Haichun Sun Univeristy of Maryland--College Park 7244 South Ora Ct Greenbelt, Maryland 20770 Ph: 301-405-2575 hsun1@umd.edu

Ms. Susan Sutherland Delaware General Health District 1 W. Winter Street, P.O. Box 570 Delaware, Ohio 43015-0570 Ph: 740-203-2082 Fax: 740-368-1736 suthrlnd@rrcol.com

Mr. Lynn Swann The President's Council on Physical Fitness and Sports, DHHS 200 Independence Ave., SW, Room 738-H Washington, District Of Columbia 20201-0004

Ms. Ellen Taaffe Pepsico 555 W. Monroe, Ste. 7-21 Chicago, Illinois 60661 Ph: 312-821-3681 Fax: 312-821-1733 Ellen taaffe@quakeroats.com

Ms. Junko Tanabu Student 4501 Conn. Ave., NW #1101 Washington, District Of Columbia 20008 Ph: 2023200855 jtanabu@gwu.edu Ms. Leah Suter HRSA/BPHC 5600 Fishers Lane, 17C-26 Rockville, Maryland 20857 Ph: 301-594-4205 Isuter@hrsa.gov

Ms. Sandy Sutton Garrett County Health Dept. 1025 Memorial Drive Oakland, Maryland 21550 Ph: 301-334-7730 Fax: 301-334-7701 ssutton@dhmh.state.md.us

Ms. Laura Syron Academy for Educational Development 1875 Connecticut Ave. NW Suite 1024N Washington, DC, District Of Columbia 20009 Ph: 202-884-8019 Ibsyron@aed.org

Dr. Carolyn Tabak Centers for Disease Control and Prevention 3311 Toledo Road, Rm. 4305 Hyattsville, Maryland 20782 Ph: 301-458-4845 ctabak@cdc.gov

Dr. Robert Taylor HHS/HRSA/OA/OMHHD 5600 Fishers Lane Rockville, Maryland 20857 Ph: 301-443-0569 rtaylor1@hrsa.gov Ms. Meredith Terpeluk U.S. Department of Health and Human Services 7th Floor, 200 Independence Avenue SW Washington, District Of Columbia 20201 Ph: 202-401-2305 Fax: 202-690-7425 mterpeluk@osophs.dhhs.gov

Ms. Greta Tessman Danya International, Inc 8737 Colesville Rd Suite 1200 Silver Spring, Maryland 20910 Ph: 240-645-1057 gtessman@danya.com

Ms. Melonie Thomas VERB/CDC 4770 Buford Hwy., NE, MS K-94 Atlanta, Georgia 30341 Ph: 770-488-6330 Fax: 770-488-8634 mthomas3@cdc.gov

Dr. Ian Thomas PedNet Coalition 2616 Hillshire Drive Columbia, Missouri 65203 Ph: 573-445-2928 pednet@pednet.org

Ms. Helen Thompson University of Colorado Health Sciences Center 4200 E. 9th Ave, C263 Denver, Colorado 80262 Ph: 303-315-9045 Fax: 303-315-9976 helen.thompson@uchsc.edu Ms. Retta Terry U.S. Department of Health & Human Services 200 Independence Ave., SW, Rm 733E Washington, District Of Columbia 20201 Ph: 202-205-1952 Fax: 202-401-4005 hterry@osophs.dhhs.gov

Dr. Karen Thiel Patton Boggs LLP 2550 M Street NW Washington, District Of Columbia 20037 Ph: 202-457-5229 Fax: 202-659-0592 kthiel@pattonboggs.com

Ms. Cathy Thomas North Carolina Division of Public Health 1915 Mail Service Center Raleigh, North Carolina 27699 Ph: 919-715-3830 Fax: 919-715-0433 cathy.thomas@ncmail.net

Ms. Linda Thompson L. L. Thompson & Associates 5611 Old Temple HIII Rd Temple Hills, Maryland 20748 Ph: 202-422-6166 Fax: 301-894-1732 Iltl@aol.com

Ms. Carolyn Thompson Maryland Deprtment of Education 200 West Baltimore Street Baltimore, Maryland 21201 Ph: 410-767-0204 Fax: 410-333-2635 cathompson@msde.state.md.us Ms. Jennifer Thorp-Overton Academy for Educational Development 1825 Connecticut Ave, NW, Suite 800 Washington, District Of Columbia 20009 Ph: 202-884-8954 Fax: 202-884-8713 jthorp@aed.org

Ms. Rebecca Tingle HRSA/MCHB 5600 Fishers Lane Rockville, Maryland 20857 Ph: 301 443 0700 rtingle@hrsa.gov

Ms. Cathleen Toomey Stonyfield Farm 10 Burton Drive Londonderry, New Hampshire 03103 Ph: 603-437-4040 ext. 2240 Fax: 603-437-7594 smulholland@stonyfield.com

Dr. Claudia Toral Freelance 257 Congressional Lane Apt. T-3 Rockville, Maryland 20852 Ph: 301-402-6860 Fax: 301-402-0337 bellefillemx@yahoo.com.mx

Ms. Beth Trapani Pennsylvania Advocates for Nutrition & Activity 1204 Gravel Pike Green Lane, Pennsylvania 18054 Ph: 215-234-4647 Fax: 717-948-6334 beth.trapani@verizon.net Ms. Laurel Tiesinga Community Partnerships 234 State St. New London, Connecticut 06320 Ph: 860/442-0733 Fax: 860/442-0729 laurel@community-partnerships.com

Ms. Rebecca Tingle HRSA/MCHB 5600 Fishers Lane Room 18-41 Rockville, Maryland 20857 Ph: 3014430700 rtingle@hrsa.gov

Ms. Allison Topper Pennsylvania Advocates for Nutrition & Activity 777 West Harrisburg Pike Educational Activities Bl Middletown, Pennsylvania 17057 Ph: 717-948-6301 Fax: 171-948-6334 atopper@panaonline.org

Ms. Stacie Townsend Inova Fairfax Hospital 1002 DeBeck Drive Rockville, Maryland 20851 Ph: 301-591-4452 stownsend123@hotmail.com

Ms. Trish Treanor Treanor ESI 7735 Old Georgetown Road, Suite 600 Bethesda, Maryland 20015 Ph: 240-744-7027 Fax: 240-744-7004 trisht@esi-dc.com Dr. Richard Troiano National Cancer Institute 6130 Executive Blvd., Rm 4005 Bethesda, Maryland 20892-7344 Ph: 301/435-6822 troianor@mail.nih.gov

Dr. Janet Unonu ECMPCC 1719 13th Street NW Washington DC, District Of Columbia 20011 Ph: 202-462-3375 Fax: 202-939-8696 junonu@ecmpcc.org

Ms. Zulma Vargas Arlington County 3033 Wilson Blvd, 200 B Arlington, Virginia 22201 Ph: 703-228-1238 Fax: 703-228-1266 zvarga@arlingtonva.us

Ms. Amy Verus University of Pennsylvania 3535 Market St, Suite 3079A Philadelphia, Pennsylvania 19104 Ph: 215-898-4604 amyvir@mail.med.upenn.edu

Ms. Monica Vinluan National Recreation and Park Association 1901 Pennsylvania Avenue, Suite 900 Washington, District Of Columbia 20006 Ph: 202-887-0290 Fax: 202-887-5484 mvinluan@nrpa.org Professor Laurie Tucker American University 4853 Cordell Ave #702 Bethesda, Maryland 20814 Ph: 301-657-8699 Itucker@american.edu

Ms. Sandi Van Scoyoc HNH Foundation 14 Dixon Avenue Concord, New Hampshire 03301 Ph: (603) 229-3260 Fax: (603) 229-3259 svs@hnhfoundation.org

Mr. Tim Vazquez USDA - Food & Nutrition Service 3101 Park Center Drive, Room 632 Alexandria, Virginia 22302 Ph: 703-305-2853 tim.vazquez@fns.usda.gov

Mr. David Vigil New Mexico Department of Health 625 Silver Southwest Suite 200 Albuquerque , New Mexico 87102 Ph: 505-841-5836 Fax: 505-841-5865 david.vigil@doh.state.nm.us

Ms. Sheree Vodicka NC Division of Public Health 1915 Mail Service Center Raleigh, North Carolina 27699-1915 Ph: 919-715-1928 Fax: 919-715-0433 sheree.thaxton@ncmail.net Ms. Martina Vogel-Taylor NIH/OD Office of Disease Prevention 6100 Executive Blvd, Suite 2B-03 Bethesda, Maryland 20892-7523 Ph: 301-496-6614 Fax: 301-480-7660 MartinaV@nih.gov

Dr. Carolyn Voorhees University of Maryland College Park 2387 Valley Drive, Rm 2358 College Park, Maryland 20742-2611 Ph: 301-405-3466 Fax: 301-314-9167 ccv@umd.edu

Ms. Meghan Wagner The Medical Foundation 95 Berkeley Street Boston, Massachusetts 02116 Ph: 617.451.0049 ext. 209 Fax: 617.451.0062 mwagner@tmfnet.org

Mr. Jeffrey Walker Cambridge Public Health Department 119 Windsor Street Cambridge, Massachusetts 02139 Ph: 617-665-3834 Fax: 617-665-3888 jwalker@challiance.org

Ms. Elizabeth Walkup HRSA 5600 fishers lane Rockville, Maryland 20857 Ph: 301-443-0421 EWalkup@hrsa.gov Ms. Leigh Ann Von Hagen, AICP/PP Voorhees Transportation Center Rutgers University 33 Livingston Ave, Suite 500 New Brunswick, New Jersey 08901 Ph: 732-932-6812, x. 613 Fax: 732-932-3714 lavh@rci.rutgers.edu

Dr. Kishena Wadhwani NICHD, NIH 6100 Executive Blvd Rockville, Maryland 22032 Ph: 301-435-6680 wadhwank@mail.nih.gov

Dr. Chantay Walker Metro Public Health Department 311 23rd Avenue North Nashville, Tennessee 37203 Ph: 615-340-5648 Fax: 615-340-2105 chantay.walker@nashville.gov

Ms. Lisa Walko Moorestown High School 350 Bridgeboro Rd Moorestown, New Jersey 08057 Ph: 856.778.6610 ext: 12040 Fax: 856.722.8983 Iwalko@mtos.com

Dr. Brian Wansink University of Illinois - Urbana-Champaign 350 Commerce West, MC 706 Champaign, Illinois 61820 wansink@cba.uiuc.edu Ms. Sarah Ward Cheshire Public Health Network 580 Court Street Keene, New Hampshire 03431 Ph: 603-354-5454 sward@cheshire-med.com

Dr. Carol Waslien University of Hawaii Dept Public Health Science, JABSOM Honolulu, Hawaii 96822 Ph: 808-524-1871 Fax: 808-545-1871 cwaslien@hawaii.edu

Ms. Natalie Webb Nutrition Network 13112 Briarcliff Terrace, Suite 504 Germantown, Maryland 20874 Ph: 301-704-1756 nawebb@erols.com

Ms. Theresa Wells Virginia Cooperative Extension 3308 S. Stafford St. Arlington, Virginia 22206 Ph: 703-228-6418 Fax: 703-228-6407 twells04@vt.edu

Ms. Elise West American Institutes for Research 1000 Thomas Jefferson St, NW Washington, District Of Columbia 20007 Ph: 202-403-5811 Fax: 202-403-5001 ewest@air.org Ms. Jane Wargo President's Council on Physical Fitness and Sports 200 Independence Ave. Washington, District Of Columbia 20201 Ph: 202-690-5157 jwargo@osophs.dhhs.gov

Ms. Danell Watkins National Cancer Institute 6130 Executive Blvd-EPN4005-MSC7344 Bethesda, Maryland 20892-7344 Ph: 301-594-3818 Fax: 301-435-3710 watkinsda@mail.nih.gov

Ms. Rachel Weinstein National Association of Local Boards of Health 1350 Connecticut Ave, Suite 850 Washington, District Of Columbia 20036 Ph: 202-223-4034 Fax: 202-223-4035 rachel@nalboh.org

Dr. Charles Wells National Institute of Enviornmental Health Sciences Building 31, Room B1C02, 31 Center Dr MSC 2256 Bethesda, Maryland 20892-2256 Ph: 301-496-2920 Fax: 301-496-0563 wells1@niehs.nih.gov

Ms. Tracey Westfield National Governors Assoc, Cntr for Best Practices 444 N Capitol St, Suite 267 Washington, District Of Columbia 20001-1512 Ph: 202-624-5356 twestfield@nga.org Ms. Maria White DHHS/HRSA/OEOCR 5600 Fishers Lane, Rm. 6-101 Rockville, Maryland 20857 Ph: 301-443-0363 Fax: 301-443-7898 mewhite@hrsa.gov

Ms. Sandra Williams Administration for Children and Families 104 King Farm Blvd. #C108 Rockville, Maryland 20850 Ph: 240-350-6704 sandra.williams@hhs.gov

Ms. Sara Wilson Tufts University, Friedman School of Nutrition 373 Highland Ave, #219 Somerville, Massachusetts 02144 Ph: 503-752-2459 wilsonse24@yahoo.com

Dr. Kimberlydawn Wisdom Surgeon General, State of Michigan 320 South Walnut St Lansing, Michigan 48413 Ph: 517-373-3740

Dr. Yibo Wood U.S. Department of Agriculture 3101 Park Center Drive Alexandria, Virginia 22302 Ph: 703-305-2601 yibowood123@hotmail.com Ms. Meredith Williams Academy for Educational Development 1825 Connecticut Ave, NW Washington, District Of Columbia 20009 Ph: 202-884-8672 Fax: 202-884-8760 mwilliams@aed.org

Mr. Donald Wilson Massachusetts Municipal Association 60 Temple Place Boston, Massachusetts 02148 Ph: 617-426-7272 Fax: 617-695-1314 djwilson@mma.org

Ms. Judy Wilson U.S. Department of Agriculture 3101 Park Center Dr Alexandria, Virginia 22302 Ph: 703-305-2585 Fax: 703-305-2576 judy.wilson@fns.usda.gov

Ms. Nsedu Witherspoon Children's Environmental Health Network 110 Maryland Ave., NW, Suite 511 Washington, District Of Columbia 20002 Ph: 202-543-4033, ext. 14 nobot@cehn.org

Ms. Monica Woods U.S. Department of Education 400 Maryland Ave., SW, Room 3E332 Washington, District Of Columbia 20202 Ph: 202-708-5939 monica.woods@ed.gov Mr. Jason Woodward United States Army Medical Department 1223 Rockland Court Crofton, Maryland 21114 Ph: 301-677-7733 Fax: 301-677-7735 Jason_R_Woodward@hotmail.com

Ms. Sue Lin Yee CDC Division of Nutrition and Physical Activity 4770 Buford Hwy, NE, Mailstop K-24 Atlanta, Georgia 30341 Ph: 770-488-5361 Fax: 770-488-6500 sby9@cdc.gov

Ms. Candace Young New York City Dept. of Health & Mental Hygiene Bureau of Chronic Disease Prevention & Control New York, New York 10007 Ph: 212-676-2178 Fax: 212-676-2161 cyoung1@health.nyc.gov

Dr. Alan Zametkin National Institutes of Health 4112 Wexford Ct Kensington , Maryland 20895 Ph: 301-496-4707 zametkin@mail.nih.gov

Ms. Marna Zok Fairfax County Head Start Program 12011 Government Center Parkway, Suite 903 Fairfax, Virginia 22035 Ph: 703-324-8124 Fax: 703-324-8200 marna.zok@fairfaxcounty.gov Dr. Susan Yanovski NIDDK, NIH 6707 Democracy Bldv, Room 675 Bethesda, Maryland 20892-5450 Ph: 301-594-8882 Fax: 301-480-8300 sy29f@nih.gov

Ms. Peggy Yen Chronic Disease Directors 106 1/2 Upnor Road Baltimore, Maryland 21212 Ph: 410/323-1405 pky3@erols.com

Dr. Rahman Zamani UCSF/ California Childcare Health Program 1333 Broadway, Suite 1010 Oakland, California 94612 Ph: (510) 281-7913 Fax: (510) 839-0339 rzamani@ucsfchildcarehealth.org

Dr. Michael Zemel University of Tennessee 1215 W. Cumberland Ave Knoxville, Tennessee 37996-1920 Ph: 865-974-6238 Fax: 865-974-3491 mzemel@utk.edu

Dr. Diana Zuckerman National Research Center for Women & Families 1901 Pennsylvania Ave, NW, Suite 901 Washington, District Of Columbia 20006 Ph: 202-223-4000 Fax: 202-223-4242 dz@center4research.org