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4-10-2013

GoKids Boston Youth Fitness, Training, and Research Center

GoKids Boston, University of Massachusetts Boston

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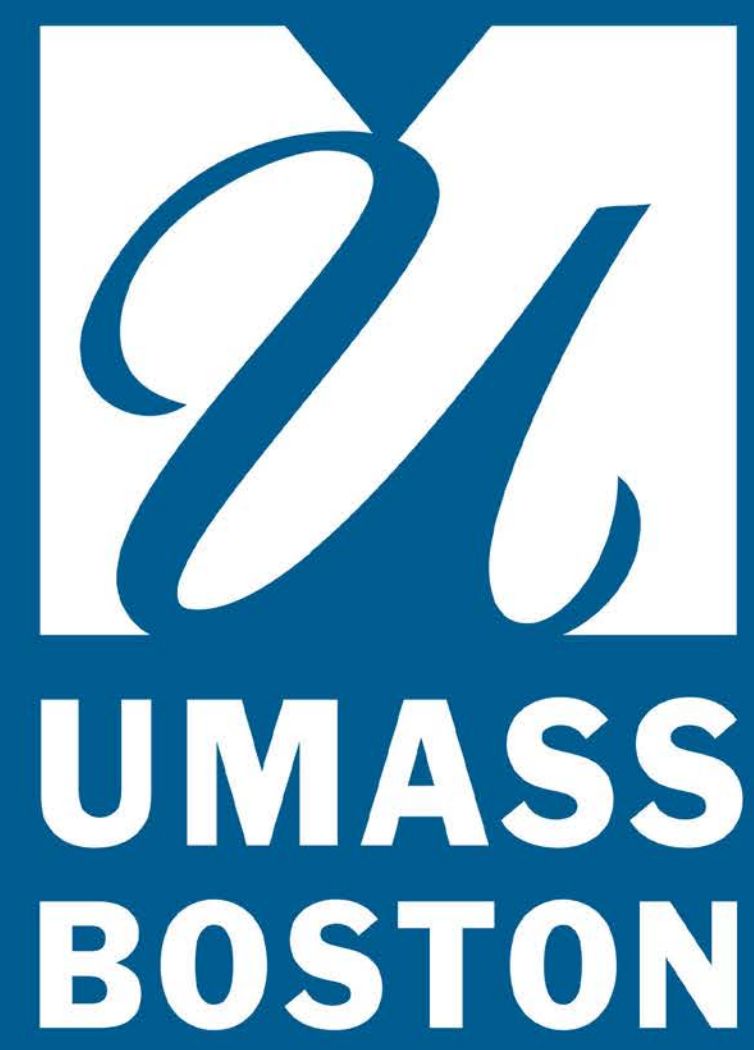


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Recommended Citation

GoKids Boston, University of Massachusetts Boston, "GoKids Boston Youth Fitness, Training, and Research Center" (2013). *Office of Community Partnerships Posters*. 102.
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GoKids Boston Youth Fitness, Training, and Research Center

Mission



GoKids Boston embodies innovation and leadership in youth health through life-changing programs, groundbreaking research, exceptional training opportunities, and dedication to the community with a focus on eliminating health disparities.

Need



There is a general dearth of effective, replicable community-based approaches to obesity and chronic disease prevention and treatment for youth and families. At a societal level, obesity, inactivity, and poor diet contribute to widespread chronic disease, but disparities in disease rates implicate additional social determinants including poverty, ethnicity, neighborhood resources, public safety, availability of healthy food, and educational attainment. To move forward, the National Heart Lung and Blood Institute recently called for innovative efforts that engage community organizations, schools and primary care and move away from overall low-impact intervention. In addition, the United States Department of Health and Human Services has called for more research on the role of exercise in reducing adiposity among children and youth. While Massachusetts public schools are required to screen children for obesity, there are few referral resources that meet families' needs for effective, safe, fun interventions, and schools are hard-pressed to provide physical activity in amounts sufficient to improve health. School-based BMI screening has recently revealed that about 44% of Boston Public schoolchildren are obese or overweight and that racial disparities exist; while 7.6% of white high school students are obese, 14.6% of blacks are (all data, Boston Public Schools.)

Community Fitness Center



SUMMARY: GoKids Boston was founded at UMass Boston in 2006 in collaboration with Children's Hospital Boston to advance the science relating exercise to youth health and wellness and to become a local leader in combating the obesity epidemic. **Since opening its doors, GoKids has empowered over 1,400 youth to take control of their health.**

GOALS:

1. Reduce the impact of obesity on children, families and communities through service research partnerships
2. Improve children's lives through fitness
3. Provide a safe space with caring adult where youth can build self-confidence, and form friendships



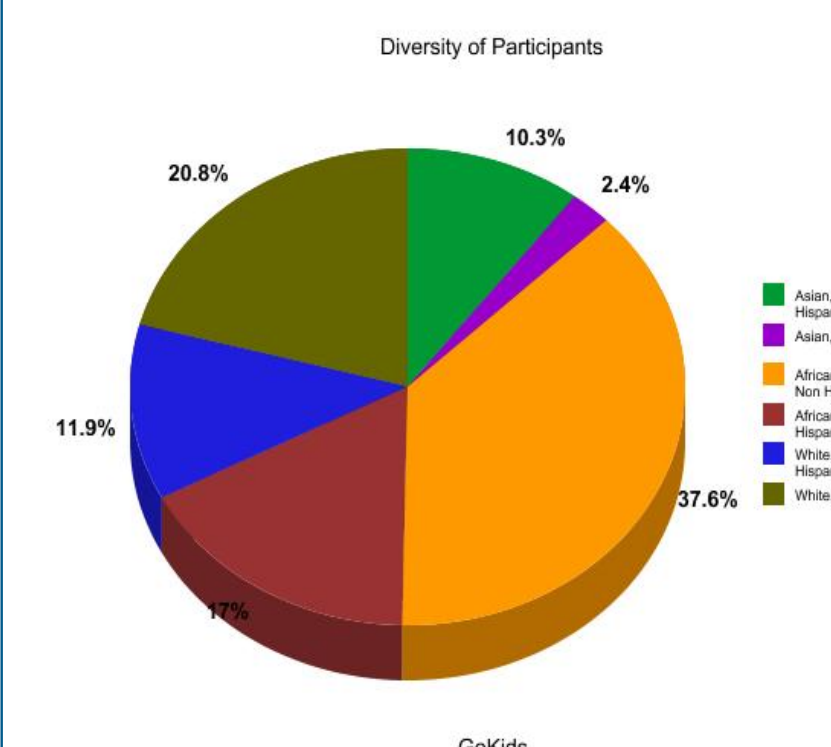
APPROACH:

GoKids provides low income, multi-ethnic youth with engaging physical activity and nutrition education programs aimed at preventing and treating obesity and chronic disease in our safe and supportive environment.

GoKids embraces UMass Boston's urban mission and focuses on reducing health disparities in underserved families. GoKids targets Boston youth at high risk for obesity and chronic disease. We have successfully targeted our programming, with annual statistics indicating that about **80%** of participants are Hispanic, African American, or Asian, **83%** are eligible for free or reduced price lunch.

Participants experience supervised physical activity and exercise that includes interactive electronic games and traditional equipment, periodic fitness assessment, homework support, nutrition education, and coordination with primary care providers and families.

In 2013-2013 GoKids has made significant strides in serving more youth. With the addition of school day programs, GoKids has quadrupled visits to the center.



CURRENT COMMUNITY PARTNERS

- Schools:**
- Dorchester Academy
 - Dever McCormack K-8
 - Quincy Public Schools
 - Roger Clap Innovation School
- Community Health Centers and Hospitals:**
- Bowdoin Street Community Health Center
 - Dimock Community Health Center
 - Southern Jamaica Plain Health Center
 - Upham's Corner Health Center
 - Whittier Street Health Center
 - Martha Eliot Health Center
 - Children's Hospital Boston
 - Boston Medical Center
 - Geiger Gibson Health Center
 - Neponset Community Health Center
- Community Organizations:**
- UMass Cooperative Extension SNAP-Ed.
 - Harbor Point Community Action Committee

NEXT STEPS:

1. Continue to recruit low-income and multi-ethnic youth who are obese or are at great risk of obesity and chronic disease
2. Foster and increase partnerships with local schools, community health centers, hospitals, and youth serving organizations
3. Serve more special need students during the day by providing adapted physical education sessions
4. Become a strong resource to sport-based nonprofit organization by providing training and health based evaluation
5. Reach youth through social media platforms like Facebook, Twitter, YouTube, and the GoKids website.

Training Center



SUMMARY: GoKids prides itself on being a strong training resource for UMass Boston students and Boston Public School students and empowers young adults to be health ambassadors. Every semester, GoKids hosts student employees, interns, teaching assistants, and volunteers that help with various programs. GoKids has also created the Health Ambassadors Program (HAP) which trains Exercise Health Sciences (EHS) students within the GoKids center and places students in exciting service-learning opportunities at Boston Public Schools.

GOALS:

1. Enlist youth and professionals as health ambassadors
2. Provide insight that UMass Boston and BPS students can share with their community on leading healthy lives
3. Build leaders that are trained and educated on exercise facilitation and healthy eating
4. Provide UMass Boston and BPS students with mentorship opportunities and service-learning opportunities that greatly impact their community



APPROACH:

Fit 2 Lead
Currently GoKids offers a Fit2Lead Program which empowers high school and middle school students to become mentors to overweight and obese teens in our summer program. Fit2Lead participants are trained every spring on anatomy, cardiovascular health, strength training, and nutrition. After significant training and leadership workshops, Fit2Lead students help to mentor and train GoKids participants. Fit2Lead members become advocates of healthy living.

Health Ambassadors Program (HAP)

The Health Ambassadors Program is built on partnerships between GoKids, Exercise Health Sciences faculty and students, and Boston Public Schools. EHS students are trained by GoKids staff and within their Pediatric Exercise class on incorporating anatomy, cardiovascular health, and strength training into physical education sessions and then observe and lead actual physical education classes at local Boston Public Schools. HAP provides EHS students with exciting service learning projects and allows GoKids to reach more youth.

Resource for Nursing and Exercise Health Sciences Students

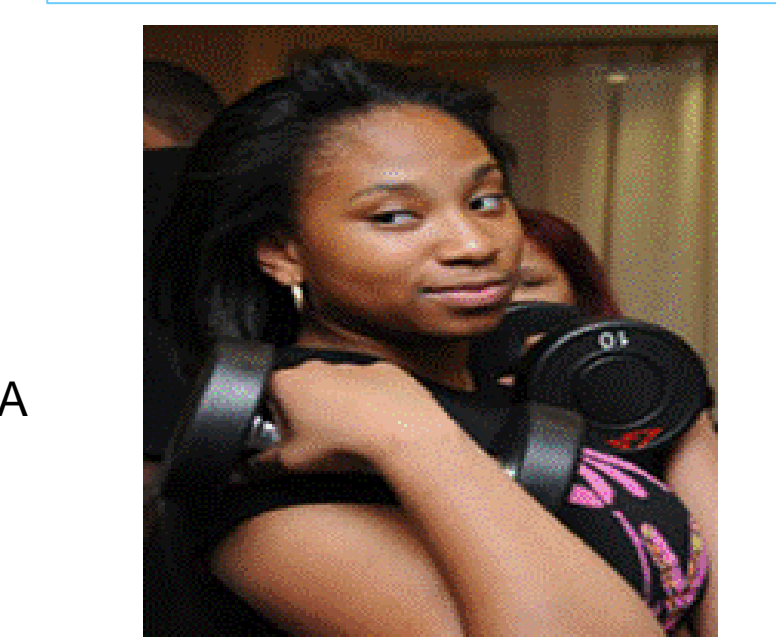
In addition to providing service opportunities to students, GoKids also welcomes classes like Research Methods and Pediatric Exercise to our center often to perform research studies, use the DXA machine, and observe GoKids Programming.

NEXT STEPS:

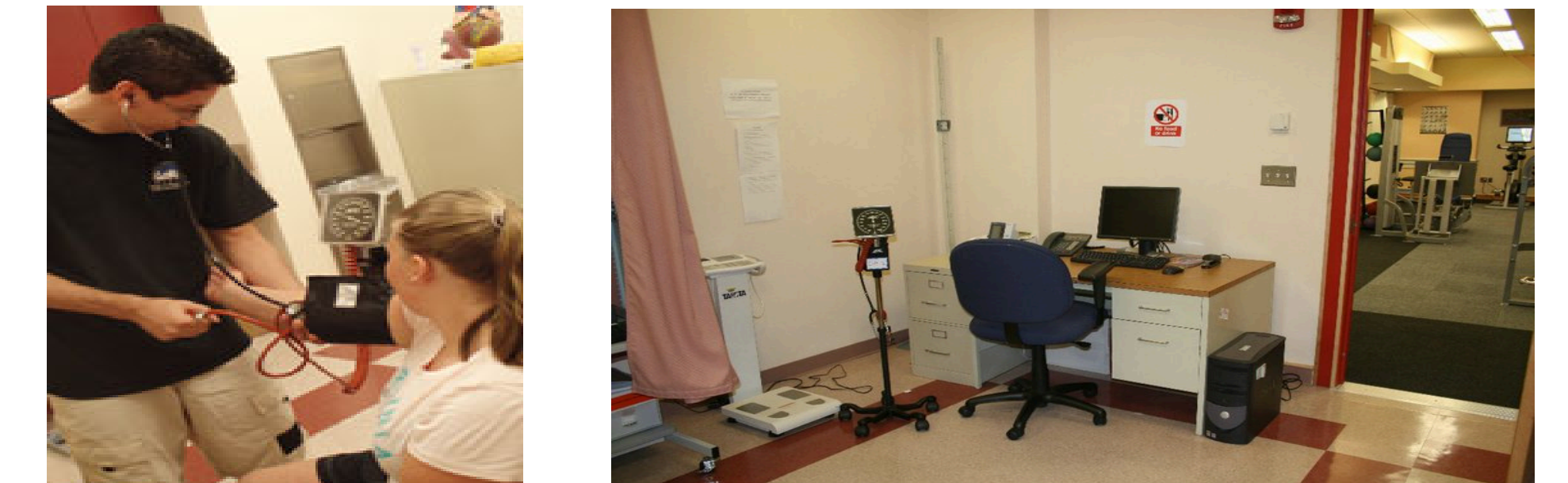
1. Strengthen and grow the HAP to include more College of Nursing and Exercise Health Sciences students (CNHS) and Boston Public Schools
2. Continue to build opportunities for EHS and Nursing students
3. Provide more opportunities for UMass students outside of CNHS
4. Train representatives from local youth-serving organization on healthy living



*"GoKids allowed me to be a mentor to the kids in our summer program. We were able to teach kids how to exercise while we got fit ourselves. The games at GoKids are great because we can have fun with the kids and get healthy. Advice I'd give to a kid coming to GoKids would be to go hard; if you want to lose weight just go hard and don't stop."
--Fit2Lead Participant Age 17*



Research Center



SUMMARY: GoKids faculty and staff participate in scholarly activities aimed at enhancing the science of relating youth physical activity to health. Studies at GoKids have reviewed progressively more effective program development, publications in peer-reviewed journals, and presentations at scientific conferences. We've hosted various studies with funding from diverse sources including National Institutes of Health and the New Balance Foundation. We have state-of-the-art measurement capabilities for assessing the impact of our programs on children's activity levels, fitness, and body composition. Our research approach combines community based participatory methods with state-of-the-art assessment measures to maximize the value of our findings to both scholars and the community.

GOALS:

1. Create replicable exercise protocols that can be used by GoKids and community partners
2. Establish evidence for the role of fitness training in adiposity reduction in children and youth
3. Identify effective partnership structures with schools and primary care providers that facilitate obesity treatment for urban children and youth

APPROACH:

Recent research activity is summarized below:

1. **Overweight and obese high school youth showed health-promoting and statistically significant increases in their "good" cholesterol levels (High Density Lipoprotein) as a consequence of participating in Fit2Lead, our fitness, leadership, and academic preparedness project.**
Hardy OT, Wiecha J, Kim A, Salas C, Moody K, et al. Effects of a Multi-Component Wellness Intervention on Dyslipidemia in an overweight adolescent population. Accepted for Publication, J Ped Endocrinology and Metabolism.
2. **Inner-city school-aged children participating in an intervention at GoKids that incorporated novel exercise technologies and nutrition education decreased time spent in sedentary activity and increased time spent in light physical activity.**
deFerranti, SD, Steltz, SK, Crouter SE, Kim A, Osganian, SK, Whiteley, JW, Feldman, H, Hayman LL. Increasing Physical Activity in Inner City Youth Using Novel Interactive Gaming. Presented at the American Academy of Pediatrics, Pedes 21 Conference, Boston, MA., Oct 14, 2011.
3. **Presentations at national and international conferences disseminate the GoKids Boston model and stress the "Power of Play" in increasing energy expenditure and engaging children and youth in physical activity.**
Hayman, LL. Prevention of Obesity. Presentation at the European Society of Cardiology, Paris, France, August 2011.
Wiecha J, Hayman LL, Salas C, Kim A. GoKids Boston: Innovative Ideas for Fostering Children's Health in Community Programs. Workshop at the Healthy Behaviors Conference, San Diego CA, December 2011.
4. **Research at GoKids has shown that interactive video games can help children obtain moderate and vigorous physical activity, and can therefore make important contributions to youth exercise programs. A research article on this topic received considerable national press coverage and appeared in a March 2011 issue of Time magazine.**
Kennard, L., Horton, M., Crouter, S.E. Use of Exergaming for Obtaining Moderate and Vigorous Physical Activity in Children. Slide Presentation: American College of Sports Medicine, New England Regional Meeting, Providence, RI, November
Bailey BW, McInnis K. Energy cost of exergaming: A comparison of energy cost of 6 forms of exergaming. Arch of Pediatric and Adolescent Medicine, Online publication March 7, 2011, doi:10.1001/archpediatrics.2011.15
5. **Children attending GoKids for help with weight management improve their eating and physical activity knowledge, intentions and behavior, and show measurable improvements in body composition, strength, and cardiorespiratory fitness.**
Salas C, Kim A, Crouter S, Wiecha J. Improvement in fitness and body composition among youth participating in a fitness center intervention for obesity treatment. Presented at New England American College of Sports Medicine Annual Meeting, November 2011.
Wiecha J. Presentation to the Women in Politics and Public Policy Research Forum, UMass Boston, October 2011.
6. **Innovative research combining exercise with math lessons at GoKids were effective in improving time spent in moderate and vigorous physical activity and student performance on classroom math and language arts assignments.**
Teixeira, A., Crouter, S., Majumdar, R., Denis, N., Palmer, K., McGovern, K., and McInnis, K. Differences in Physical Activity Level Between Tutoring and ExerLearning in Middle School Students. Slide Presentation: American College of Sports Medicine, New England Regional Meeting, Providence, RI, November 2008
7. **Research at GoKids is laying the groundwork for improving how energy expenditure and physical activity level are measured in children and adolescents.**
Crouter, S.E., Horton, M., and Bassett, D.R., Jr. Use of A 2-Regression Model for Estimating Energy Expenditure in Children. In review at *Medicine and Science in Sports and Exercise*.
Crouter S.E., Horton M., Kennard L., and Bassett D.R. Use of a 2-regression model for estimating energy expenditure in children. *Medicine and Science in Sports and Exercise*. 43: S93, 2011.
Munoz M., Horton M., Bassett D.R., and Crouter S.E. Validity of Actical accelerometer algorithms for estimating energy expenditure in children [abstract]. *Medicine and Science in Sports and Exercise*. 43: S483, 2011.
Horton M., Kennard L., Bassett D.R., and Crouter S.E. Validity of ActiGraph prediction equations for estimating energy expenditure in children [abstract]. *Medicine and Science in Sports and Exercise*. 43: S482, 2011.

NEXT STEPS:

1. Foster interdisciplinary collaborations with research and clinical faculty from a range of discipline
2. Continue to analyze and report on existing data
3. Pursue research funding through federal and philanthropic sources
4. Continue to accrue evidence on the effectiveness of our protocols through ongoing enrollment of new participants