



Feeding America

Healthy Cities Phase II Year Two Phase III Year One

Evaluation Results





Background

 The Healthy Cities integrated health and nutrition program was initially piloted in three cities (Chicago, IL, Newark, NJ, Oakland, CA) from September 2014 – May 2015.

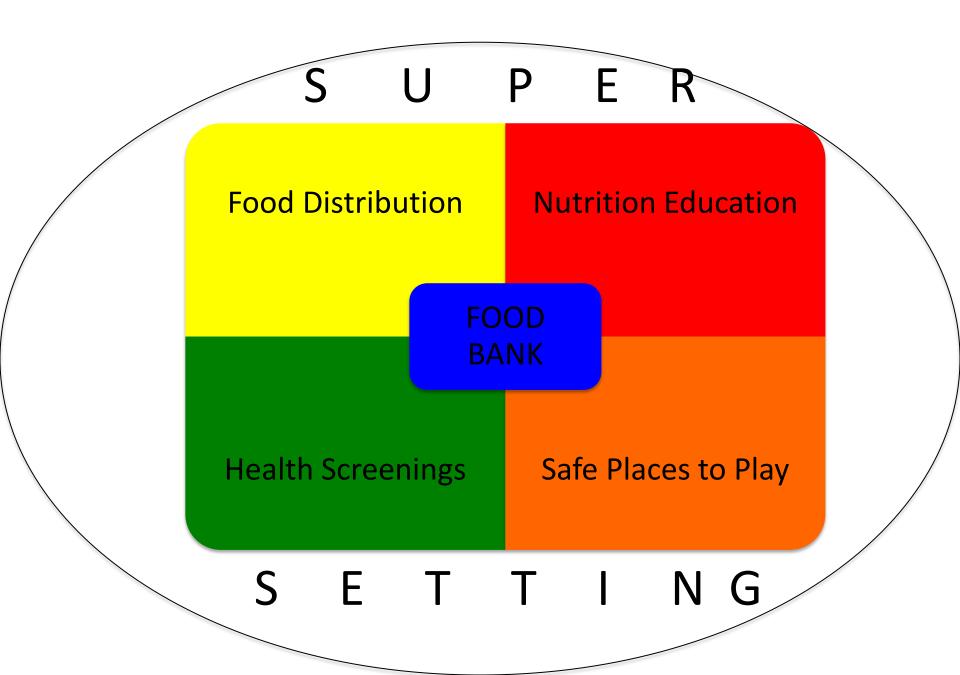




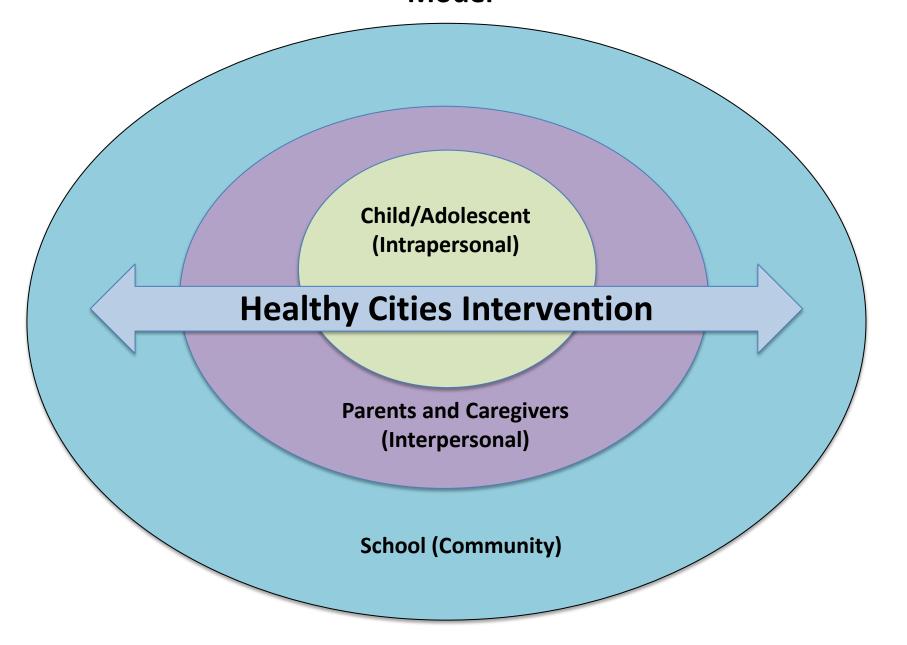
Background

- Pilot demonstrated feasibility of FA food banks serving the role of primary facilitators of partnership development to offer an integrated health and nutrition program.
- Set the foundation for replication and implementation in other FA food banks.

Healthy Cities Integrative Nutrition and Health Model



Ecological Approach to Healthy Cities Integrative Nutrition and Health Model







Evaluation Objectives

- Determine HC food bank clients changes in health and nutrition knowledge, attitudes, and behaviors.
- Determine perceived client benefit and impact.
- Determine continued sustainability of HC integrative health and nutrition model.





Food Bank Profiles, Partnerships, and Activities





Greater Cleveland Food Bank: Phase II Year Two













Greater Cleveland Food Bank

Food Distribution	Nutrition Education	Health Screening	Safa Places to Play*
 After-school days Produce and stable foods PARTNERS: Cleveland Me School District Trinity Cather 	 Schools Smoothie curriculum Tip cards and recipe sheets distributed PARTNER: Cleveland Clinic (Food in Knowledge Curriculum) 		 Playgrounds at school food distribution sites Volunteers encouraged and supervised active play Hula hoops and balls were provided at food distribution sites Fitness Camps Yoga Zumba PARTNER: Cleveland Metropolitan School District NuLife Fitness YMCA Cleveland Clinic Children's Hunger Alliance





Greater Cleveland Food Bank

Partner	Role in Project
Cleveland	Served as a site for food distributions, nutrition education, health
Metropolitan School	screenings, and safe places to play program components.
District	
Trinity Cathedral	Provided food for food market days at one of the school sites.
MetroHealth Hospial	Provided safety information such as seat belt and car safety, healthy
Systems	and safe Halloween at one school site.
University Hospitals	Provided health screenings (asthma, height/weight (BMI), vision,
Safety Squad	blood pressure) to one school site.
Cleveland Clinic	Provided health screenings (asthma, height/weight (BMI), vision,
	blood pressure) to one school site; held fitness challenge at one
	school site.
NuLife Fitness	Held fitness camps at some school sites.
YMCA	Led fitness activities/classes at some school sites.
Children's Hunger	Provided support for yoga classes at community center for two
Alliance	school sites.





Houston Food Bank: Phase II Year Two













Houston Food Bank

Food Distribution	Nutrition Education	Health Screening	Safe Places to Play
 After-school market (mobile and school- based food pantries) Produce and shelf- stable foods distributed monthly Seven elementary schools, one middle/high school, one high school PARTNERS: Houston Independent 	 CATCH curriculum in elementary schools Food demonstration, recipes and nutrition tips PARTNER: Brighter Bites 	 Services: blood pressure, immunizations, physicals, dental, vision, blood sugar, lice PARTNERS: Center for the Blind Jamboree Dental University of Houston College of Pharmacy 	 CATCH curriculum PARTNER: Brighter Bites
School District		 Memorial Hermann Community Benefits 	
 Pasadena Independent School District 		,	
Southwest CharterSchool			





Houston Food Bank

Partner	Role in Project
Houston Independent School District	Served as a site for food distributions, nutrition education, health screenings, and safe places to play program components.
Pasadena Independent School District	Served as a site for food distributions, nutrition education, health screenings, and safe places to play program components.
Southwest Charter School	Served as a site for food distributions, nutrition education, health screenings, and safe places to play program components.
Brighter Bites	Provided nutrition education and opportunities for physical activity through CATCH curriculum in elementary schools.
Center for the Blind	Provided eye exams and vouchers.
Jamboree Dental	Provided vouchers for dental exams.
Memorial Hermann Community Benefits	Provided health screenings at schools.
University of Houston College of Pharmacy	Provided health screenings at schools.





Second Harvest Food Bank (NOLA): Phase III Year One













Second Harvest Food Bank

Food Distribution	Nutrition Education	Health Screening	Safe Places to Play
After-school market	 Cooking Matters 	Mental Health	 Volunteers
 Produce and shelf-stab foods distributed 	e • Food demonstration	Blood Glucose	encouraged and supervised active
monthly	 Tip cards and recipes 	Blood Pressure	play (i.e.
PARTNERS:	PARTNER:	• Cholesterol	hopscotch)
ReNew Schools (ReNew	SankofaTulane Dietetic Internship	• Lead	• Yoga
Accelerated High School and Dolores T. Aaron	Program	PARTNERS:	Hip Hop
Elementary School)		 Daughters of Charity 	PARTNER:
 Warren Easton Charter 		 Louisiana Health 	 Project Peaceful
Foundation (Warren		Sciences Center	Warrior
Easton High School)		 Lead Safe Louisiana 	 Youth Run NOLA
,		Priority Health Care	
		Tulane Pediatrics	
		Xavier National Student	
		Pharmaceutical Program	
		• Amerigroup	
		Louisiana Healthcare	
		Connections	





Second Harvest Food Bank

Partner	Role in Project
Charter Schools	Served as a site for food distributions, nutrition education, health screenings, and safe
	places to play program components.
LA Health Sciences Center	Conducted mental health screenings and provided parenting resources to families.
Priority Health Care	Provided health screenings at school sites.
Daughters of Charity	Provided health screenings at school sites.
Healthy Louisiana Plans	Assist clients in understanding health care plans, including Medicaid plans.
Tulane University, Hispanic	Federally Qualified Health Clinic. Provides health information in Spanish for Spanish
Consulate, Fernando Sosa	speaking clients.
Sankofa	Conducted cooking demonstrations in support of nutrition education.
Cooking Matters	Nutrition education curriculum used by volunteers.
Project Peaceful Warrior	Conducts yoga classes at school sites.
Urban League Workforce	Provided economic information resources, including information on job fairs, GED
Development	completion, and adult education courses.
Office of Emergency	Provides education and information on emergency preparedness (i.e. Zika kits, how to
Preparedness, Region 1	prepare for a hurricane.
Journey Allen, Creative	Provides onsite creative art project for families; families can learn how to do at home for
Arts Projects	leisurely activities.
Healthy Louisiana Plans Tulane University, Hispanic Consulate, Fernando Sosa Sankofa Cooking Matters Project Peaceful Warrior Urban League Workforce Development Office of Emergency Preparedness, Region 1 Journey Allen, Creative	Assist clients in understanding health care plans, including Medicaid plans. Federally Qualified Health Clinic. Provides health information in Spanish for Spanish speaking clients. Conducted cooking demonstrations in support of nutrition education. Nutrition education curriculum used by volunteers. Conducts yoga classes at school sites. Provided economic information resources, including information on job fairs, GED completion, and adult education courses. Provides education and information on emergency preparedness (i.e. Zika kits, how to prepare for a hurricane. Provides onsite creative art project for families; families can learn how to do at home for the standard plans.





Evaluation Tools

- Observation and Interviews
 - Initial site visit (NOLA) and interview for process evaluation
- Surveys
 - Partner surveys
 - Program manager surveys (beginning and end)
 - Monthly logs, monthly update forms, and phone calls
 - Beginning, middle, and end point surveys:
 - Parents-guided surveys
 - Teachers-administered online
 - Face to face (final) site visit with program managers and partners
 - Cleveland and Houston





Healthy Cities Research Questions:

- How do health and nutrition knowledge, attitudes and reported behaviors change over time among HC program participants?
- What is the perceived client benefit of the integrated health services provided by the HC project?
- What are the perceptions of food bank program managers (grantees) and their partners?





Results





Phase II Reach: May 2015-May 2017

2,678,708 pounds of food distributed (73% produce)

45,286* households* with 55,117* children

Average 59 pounds food/household

- 140,862+ nutrition education* materials distributed
- 7,791 health screenings*
- 11,000 children reached through safe places to play*
- *= duplicated numbers

Cleveland & Houston Reach

		,,							
Food distribution:									
Hours of operation	523.50	696.50	1,220.00	32150	898.50				
Number of sites distributing food*	111	150	261	107	154				
Produce (lbs.)	929,540	1,019,801	1,949,341	838,072	1,111,269				
Shelf-stable/other food (lbs)	280,442	448,925	729,367	183,305	546,062				
Total distributed	1,209,982	1,468,726	2,678,708	1,021,377	1,657,331				
Households served:									
# Households*	20,912	24,374	45,286	16,294	28,992				
Adults*	29,451	37,272	66,723	29,115	37,608				
Children*	25,206	29,911	55,117	25,004	30,113				
Total Adults + children*	56,422	67,183	123,605	54,119	69,486				
Number of nutr. ed. materials distributed:									
For Parents	37,416	63,074	100,490	4,446	96,044				
For Children	18,433	21,939	40,372	4,493	35,879				
Total # nutr. ed. materials distributed	55,849	85,013	140,862	8,939	131,923				
Number of screenings:									
ht/wt	267	797	1,064	674	390				
blood pressure	480	1,176	1,656	781	875				
Dental	295	184	479	160	319				
Hearing	1,251	719	1,970	8	1,962				
Visual	1,487	716	2,203	202	2,001				
Immunization	164	78	242	94	148				
other (see below)**	16	161	177	7	170				
Total number of screenings	3,960	3,831	7,791	1,926	5,865				
Number reached with safe places to play activities:									
# children reached*	6,795	4,353	11,148	3,660	7,488				
* duplicated numbers ** Other screenings included scr	* duplicated numbers ** Other screenings included screenings for asthma, diabetes, and scoliosis								

Combined first

12 months

(May '15 -April '16)

Factor

Combined last

13 months (May

16-

May '17)

Combined Full

May '15 - May '17 (25 months)

Program

OH Full

Program May '15 - May '17 TX Full Program May '15 - May '17





Phase III Reach: June 2016-May 2017

202,372 pounds of food distributed (63% produce)

5,282 households with 8,726 children

Average 38 pounds food/household

- 4,000+ nutrition education* materials distributed
- 867 health screenings*
- 1000 children reached through safe places to play*
- *= duplicated numbers

New Orleans Reach

Factor	June 2016	July 2016	Aug. 2016	Sept. 2016	Oct. 2016	Nov. 2016	Dec. 2016	Jan. 2017	Feb. 2017	Mar. 2017	Apr. 2017	May 2017	Total Year 1 June '16- May '17 (12 mos)
Food distribution:													
Hours of operation	4	4	4	4	8	8	6	8	4	8	6	6	70
Number of sites distributing food	1	2	2	2	4	4	3	4	2	4	3	3	34
Produce (lbs.)	8,910	3,370	4,861	8,290	24,472	11,435	7,983	22,703	8,244	14,398	7,486	4,752	126,904
Shelf-stable/other food (lbs)	1,026	5,646	3,000	3,544	11,383	8,555	5,732	3,986	7,870	5,851	7,329	11,546	75,468
Total distributed	9,936	9,016	7,861	11,834	35,855	19,990	13,715	26,689	16,114	20,249	14,815	16,298	202,372
Households served:													
# Households	208	1,134	(not captured)	362	710	477	470	486	300	349	467	319	5,282
Adults	383	1,235	757	766	1,121	1,109	962	1,077	650	684	772	559	10,075
Children	316	1,192	738	533	683	806	879	1,089	573	674	649	594	8,726
Total Adults + children*	699	2,427	1,495	1,299	1,804	1,915	1,841	2,166	1,223	1,358	1,421	1,153	18,801
Number of nutr. ed. materials distributed:													
For parents	182	301	339	62	390	303	268	219	111	160	180	231	2,746
For children	73	199	9	313	205	207	189	116	71	233	194	78	1,887
Total # nutr. ed. materials distributed	255	500	348	375	595	510	457	335	182	393	374	309	4,633
Number of screenings:													
blood pressure		99	6			36	24	28				74	267
Dental			11										11
Hearing			11										11
Visual			11									15	26
other **							72	64	122	38	205	51	552
Total number of screenings		99	39	0	0	36	96	92	122	38	205	140	867
Number reached with safe places to play activities:													
# children reached*	60	0	22	138	564	21	71	41	20	47	54	0	1,038

^{*} Duplicate numbers
** "Other" screenings included cholesterol (8), lead in-home swabs and soil kits (128), and mental health screenings (416)





Perceived Client Benefits Cleveland and Houston

Qualitative Results from Parent and Teacher Surveys



HC II: Survey Response

	October 2015	January 2016	May 2016	October 2016	January 2017	May 2017
Parent Survey (English)	21	19	17	23	29	25
Parent Survey (Spanish)	10	13	9	8	1	5
Total Parent Surveys	31	32	26	31	30	30
Teacher Survey (Cleveland)	25	26	36	12	10	29
Teacher Survey (Houston)	24	26	78	54	41	37
Total Teacher Surveys	49	52	121*	67*	51	66

^{*=}includes surveys from teachers not indicating which school they were from





HC III: Survey Response

	October 2016	January 2017	May 2017
Parent Survey	15	15	15
Teacher Survey	9	24	19





Emerging Themes

- Improved food security*
- Access to healthy food*
- Increased awareness of health habits*
- Improved eating behaviors*
- Increased sense of community
- School Performance









Food Security: It helps because there are times when our family is running low on some food items. (Parent, January 2017)

Access: We are able to eat more fresh foods (Parent, January 2017)

Awareness of Health Habits: They are more aware of what they take in their bodies as well as trying to be more physically active. (Teacher, May 2017)

Improved Eating Behaviors: We eat more vegetables. (Parent, January 2017)

I have noticed them making better food choices and being excited about what was on the menu for the day. (Teacher, May 2017)

Community: Having the distribution on campus builds community ties. (Teacher, May 2017)

School Performance: Students are more energized and more focused. (Teacher, May 2017)





Food Security Measures HCII

Survey question: Which of the following statements best describes the food eaten in your household in the last 12 months? (not significant, p=0.3916)	October 2015 (n=31)	January 2016 (n=33)	May 2016 (n=26)	October 2016 (n=30)	Jan 2017 (n=30)	May 2017 (n=30)
There is enough of the kind of food we want to eat.	5 (16%)	9 (28%)	9 (35%)	10 (33.3%)	7 (23.3%)	8 (26.7%)
There is enough food but not always the kinds of food we want.	20 (65%)	17 (53%)	12 (46%)	13 (43.3%)	18 (60.0%)	13 (43.3%)
Sometimes there is not enough to eat.	6 (19%)	10 (30.3%)	4 (15%)	7 (23.3%)	3 (10.0%)	9 (30.0%)
Often there is not enough to eat.	0	0	1 (4%)	0	2 (6.7%)	0 (0%)
Survey question: Have you ever in the past year, gone without food to pay for (mark all that apply):						
In the last 12 months, I have gone without food to pay for medicine. P=0.7197	5 (16%)	2 (6%)	2 (8%)	4 (12.9%)	4 (13.3%)	2 (6.67%)
In the last 12 months, I have gone without food to pay for utilities. P=0.0331	13 (42%)	8 (24%)	4 (15%)	9 (30%)	9 (30%)	2 (6.67%)
In the last 12 months, I have gone without food to pay for transportation. P=0.9464	3 (10%)	5 (15%)	3 (12%)	5 (16.1%)	3 (10.0%)	3 (10.0%)
In the last 12 months, I have gone without food to pay for housing. P=0.8917	6 (19.4%)	7 (22%)	5 (19%)	5 (16.1%)	3 (10.0%)	5 (16.7%)



Food Security Measures HCIII

Survey question: Which of the following statements best describes the food eaten in your household in the last 12 months? a	October 2016 (n=15)	January 2017 (n=15)	May 2017 (n=15)
There is enough of the kind of food we want to eat.	5 (33.3%)	4 (26.7%)	4 (30.8%)
There is enough food but not always the kinds of food we want.	4 (26.7%)	5 (33.3%)	6 (40.0%)
Sometimes there is not enough to eat.	3 (20%)	4 (26.7%)	3 (23.1%)
Often there is not enough to eat.	3 (20%)	2 (13.3%)	0
Mean ± SD missing food groups	2.73±0.26	2.73±0.26	3.08±0.28
Survey question: Have you ever in the past year, gone without food to pay for (mark all that apply): ^b			
In the last 12 months, I have gone without food to pay for medicine.	3 (20%)	3 (20%)	3 (20%)
In the last 12 months, I have gone without food to pay for utilities.	4 (26.7%)	5 (33.3%)	6 (40%)
In the last 12 months, I have gone without food to pay for transportation.	2 (13.3%)	1 (20.0%)	2 (40%)
In the last 12 months, I have gone without food to pay for housing.	5 (38.5%)	4 (30.8%)	4 (30.8%)

^a Pearson's chi square p=0.7462. There were no significant differences in the proportion of parents who reported each level of food security status across the time points.

^b There were no trends in the frequency with which each tradeoff was made at each time point.





HC Client Utilization

Cleveland and Houston, Years 1 and 2

Healthy Cities	Reports having	Reports having	Reports having	Reports having	
Program Component	previously	previously	previously	previously	
	participated	participated	participated	participated	
	(January, 2016,	(May,2016,	(January, 2017,	(May,2017,	
	n=32)	n=26)	n=30)	n=30)	
Food Distribution	28 (88%)	18 (69%)	26 (87%)	29 (97%)	
Nutrition Education	8 (25%)	6 (23%)	9 (30%)	8 (28%)	
Health Screenings	2 (6%)	9 (35%)	7 (23%)	8 (28%)	
Safe Places to Play	1 (3%)	0	1 (3%)	4 (14%)	

New Orleans, Year 1

Healthy Cities Program	Reports having	Reports having			
Component	previously participated	previously participated			
	(January, 2017, n=15)	(May,2017, n=15)			
Food Distribution	12 (80%)	15 (100%)			
Nutrition Education	5 (33%)	10 (67%)			
Health Screenings	5 (33%)	9 (60%)			
Safe Places to Play	0	3 (20%)			





Client Changes and Impact

- Range of parents stating they made healthy changes at mid point and end points HC:
 - 70-91% HCII
 - 93% HCIII
- Specific changes made:
 - Eating more fruits and vegetables*
 - Cooking more*
 - Eating less sugary foods**
 - Eating less fast foods**





Client Changes and Impact

- Quantitative data regarding changes in intake of fruits, vegetables, and legumes was also collected.
 - Clients from HCII perceived they were eating more fruit than they were three months ago.
 - Clients from HCIII reported significant increases in actual and perceived intake of vegetables and in actual intake of legumes.
 - Self-reported daily vegetable intake went from 0% at beginning of program to 42% at end of program.
 - Self-reported intake of legumes "a few days per week" went from 13% at beginning of program to 71% at end of program.





Program Manager Satisfaction Ratings

Partners & Clients	Sept	Oct	Nov	Dec	Jan 2016	Feb	Mar	Apr	May	Mean	Difference (Sept 2015- May 2016)
Satisfaction with partners	8.5	8.5	8.5	9.0	9.0	9.0	8.5	9.0	9.0	8.8	+0.3
Satisfaction with client feedback	n/a	9.0	9.5	8.5	7.0	6.5	8.0	8.0	7.0	7.9	-1.1
Partners & Clients	Sept	Oct	Nov	Dec	Jan 2017	Feb	Mar	Apr	May	Mean	Difference (Sept 2015- May 2016)
Satisfaction with partners	9.5	9.0	9.5	9.0	9.0	8.5	8.5	8.5	8.5	8.9	-0.6
Satisfaction with client feedback	9.0	9.0	8.0	8.5	8.5	8.5	5.5	n/a	9.5	8.3	-0.7





Program Manager Challenges

- Initial challenges related to logistics, resolved over time.
- Implementation of safe places to play remained most challenging in years one and two.





HCII End of Program Findings: Program Manager Insights

Rewards

Growth of program over time; engaged community members

Client benefits

- Convenience
- "One-stop shop"; "Like going to Walmart"
- "Waiting in line is not glamorous...seeing families come back speaks to the need."

Attitudes

- "We have changed attitudes around what food banks do."
- "Clients see we give high quality produce, not just leftovers."





HCII End of Program Findings: Program Manager Insights

- Department changes and celebrity status
 - "Phone ringing off the hook"
 - "Other food banks visiting, want to know how to do this"
 - Program became a model/template for other food bank interventions

Challenges

Safe places to play; return on investment issue





HCII End of Program Findings: Program Partner Insights

Community contributions

- Improved perceptions of school communities.
- "Other organizations view us as a touch point to reach other community members."

Attitudes

— "I didn't know food banks did these things; I used to think of shelters when I thought of food banks."





HCII End of Program Findings: Program Partner Insights

Client benefits

- Convenience of services in one place
- "When you tell a parent to see someone at another place, a lot of times, they don't follow through. But when they can get their blood pressure checked right there...it gives them a friendly face."

Challenges

- Varied by community; including age of children served at school site.
- Initial red tape, bureaucracy

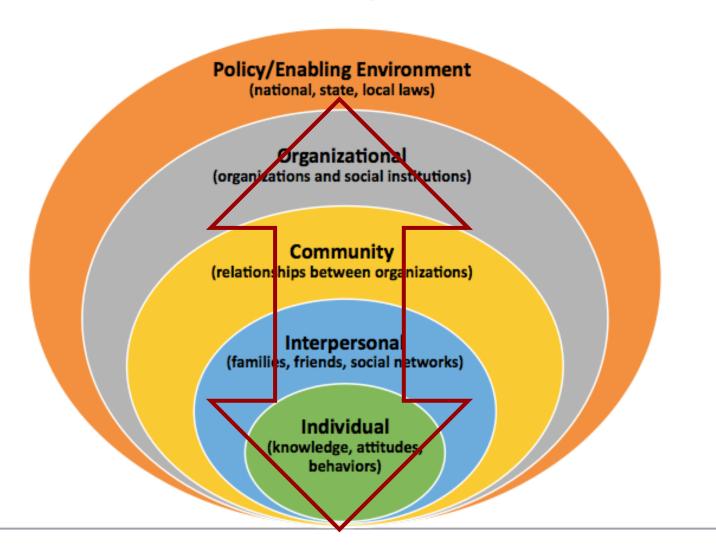




HCIII Year One Insights

- Unique population needs and circumstances reinforced of the need of community buy-in.
- Addition of partnerships addressing social determinants of health is a new dimension of value to consider for future program funding.

Socio Ecological Model







Summary and Conclusions

- The Healthy Cities program has made a significant impact on families and communities.
- An integrative health and nutrition model with food distribution, nutrition education, and health screening is a model that can be scaled and implemented in communities across the country.

2014-15
Follow-Up
Reach

Factor	ChicagoApr. 2016	Oakland Apr. 2016	New Jersey May 2016	Combined 1-month snapshot Total 2016	ChicagoApt. 2017	Oakland Apr. 2017	New Jersey May 2017	Combined 1-month snapshot Total 2017
Food distribution:								
Hours of operation	5	27	3	35	3	19	0	22
Number of sites distributing food [®]	2	10	5	17	2	12	0	14
Produce (lbs.)	14,277	54,266	2,534	71,077	8,120	40,794	0	48,914
Shelf-stable/other food (lbs)	6,347	33,064		39,411	5,000	31,242	0	36,242
Total distributed	20,624	87,330	2,534	110,488	13,120	72,036	0	85,156
Households served:								
# Households*	987	2,496	382	3,865	538	2,053	0	2,591
Adults*	2,178	5,175		7,353	1,194	4,561	0	5,755
Children*	2,168	5,770	1,361	9,299	1,218	3,980	0	5,198
Total Adults + children*	4,346	10,945	1,361	16,652	2,412	8,541	0	10,953
Number of nutr. ed. materials distributed:								
For parents		371		371	0	0	0	0
For children		0		0	0	0	0	0
Total # nutr. ed. materials distributed	0	371	0	371	0	0	0	0
Number of screenings:								
ht/wt		0		0	0	0	0	0
blood pressure		0		0	0	0	0	0
dental		0		0	0	0	0	0
hearing		0		0	0	0	0	0
visual		0		0	0	0	0	0
Immunization		0		0	0	0	0	0
other		0		0	0	0	0	0
Total number of screenings	0	0	0	0	0	0	0	0
Number reached with safe places to play activities:								
# children reached*	461	0		461	0	0	0	0

^{*} Duplicated numbers.





Summary and Conclusions

- Although safe places to play is more challenging to implement and sustain, the needs of the community should guide such interventions.
- Partnerships with organizations addressing social determinants of health as well as creative arts or other non-medical programs may offer additional opportunities for community engagement and well-being.





Looking Ahead

- NOLA to enter year two of Phase III
- Cleveland will maintain the HC school market model and has adopted the model for other population programming needs.
- Houston is looking at other funding opportunities to maintain the current model; additional discussion with partner organizations about rural communities and migrant farmer communities.





Thank you!

Questions and Discussion