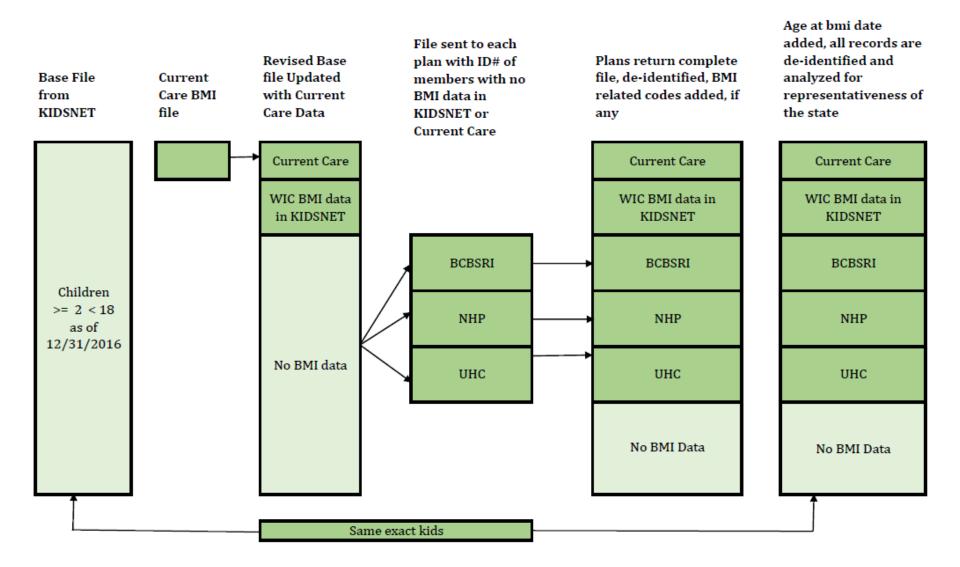
Clinical Child BMI Data Work Group Project

Ellen Amore, KIDSNET, Center for Health Data & Analysis, RIDOH Jim Beasley, formerly of Rhode Island KIDS COUNT Carolyn Belisle, Blue Cross & Blue Shield of Rhode Island Libby Bunzli, Office of the Health Insurance Commissioner Melissa Lauer, Executive Office of Health & Human Services Devan Quinn, Rhode Island KIDS COUNT Michelle Rogers, Hassenfeld Child Health Innovation Institute Patrick Vivier, Hassenfeld Child Health Innovation Institute

SIM BMI Data Work Group Project Schematic

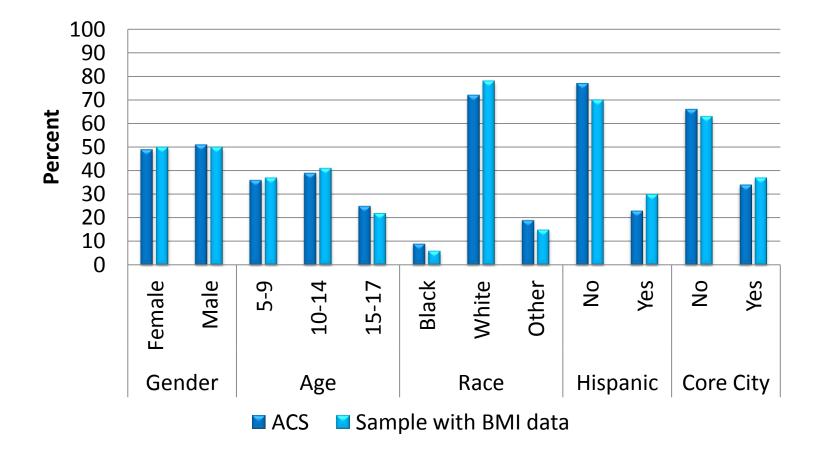


Data Fields Collected

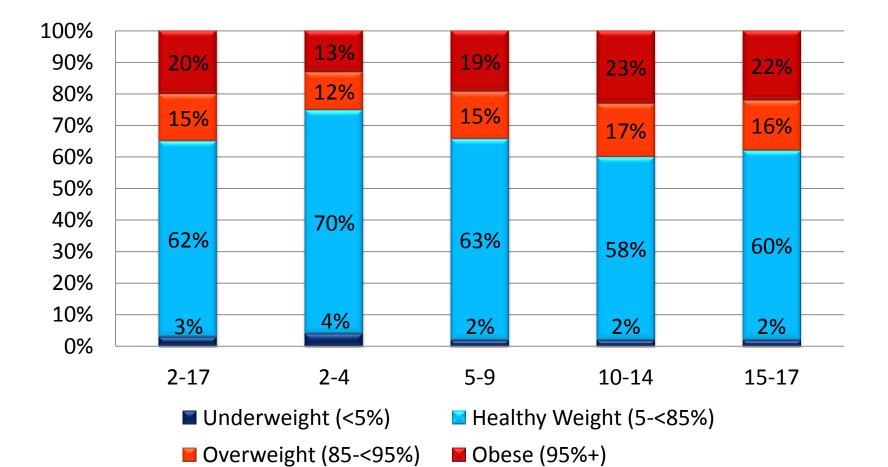
- Actual height and weight
- BMI
- ICD9, ICD10 or HCPCS (billing) codes related to BMI
 - Included codes for both children and adults because sometimes adult codes are used for teens

Source	#	%
Current Care	7,446	3.0%
KIDSNET (BMI)	4,636	1.9%
Current Care and KIDSNET both had data	296	0.1%
MCO - Return files (with ICD10 or HCPS code)	29,169	11.8%
MCO - Return files (with BMI_PERCENTILE)	3,012	1.2%
MCO - Return files (with no BMI related data)	77,035	31.1%
Not in MCO file and no BMI data in KIDSNET or Current Care	126,407	51.0%
Total	248,001	

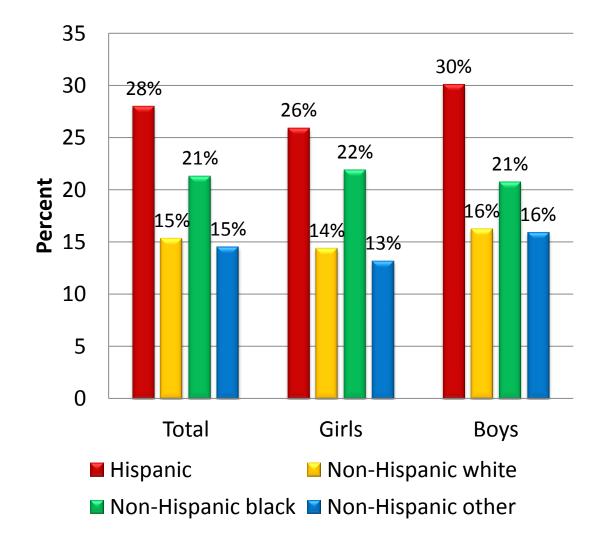
American Community Survey vs. Project Sample with BMI Data = Representative Sample



BMI Category by Age Group



Obesity: Racial/Ethnic Disparities



28% of Hispanic children & 21% of black children are obese

 Nearly onethird of Hispanic boys are obese

Obesity Rates by Town & County

Towns:

Lowest:

Barrington (7%) East Greenwich (9%), Glocester (11%)

Highest:

Providence (26%) Central Falls (29%) Little Compton (32%)

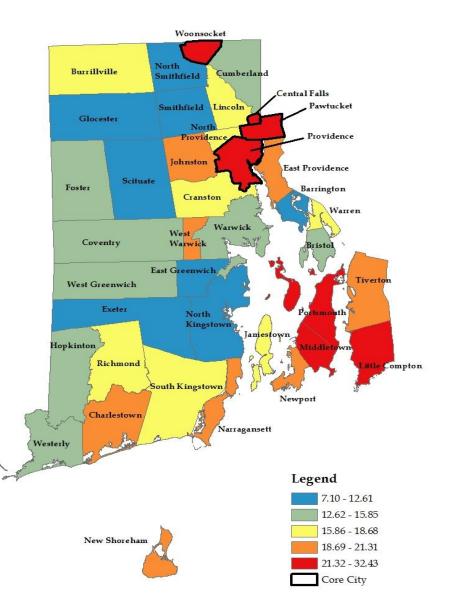
Counties:

Lowest:

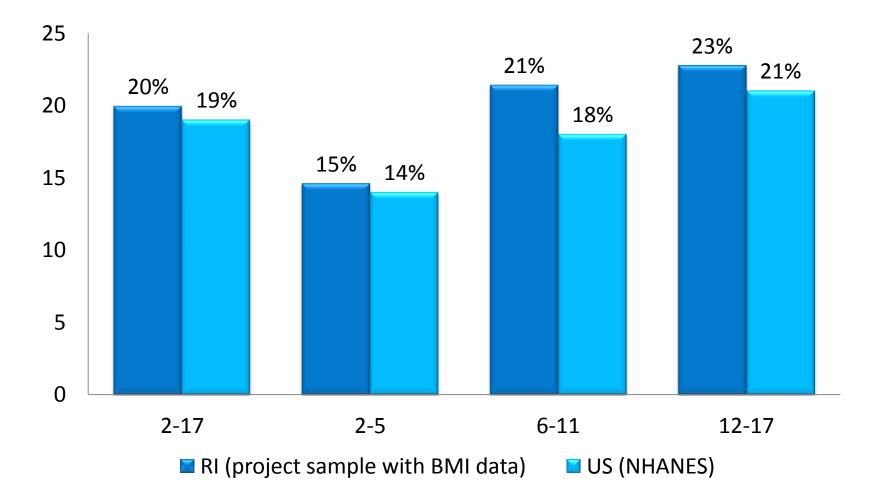
Bristol County (13%)

Highest:

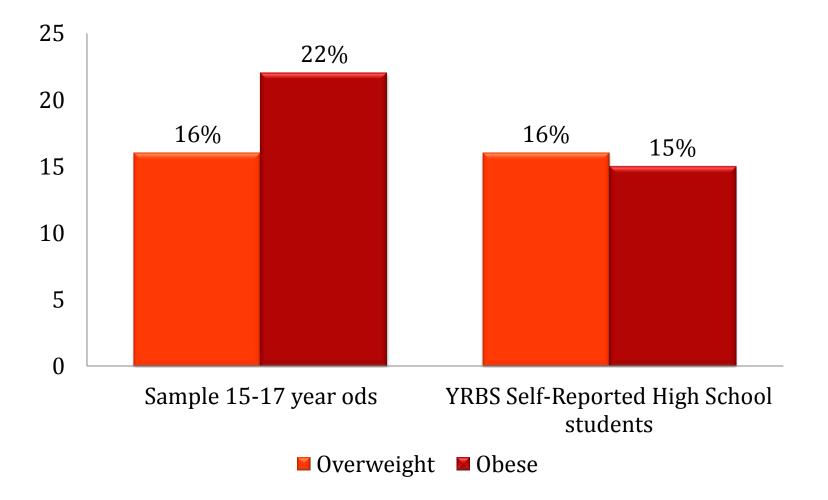
Newport County & Providence County (22%)



Compared to National Clinical Rates



Compared to State Self-Reported Data



State Update on Regulatory/Legislative Options

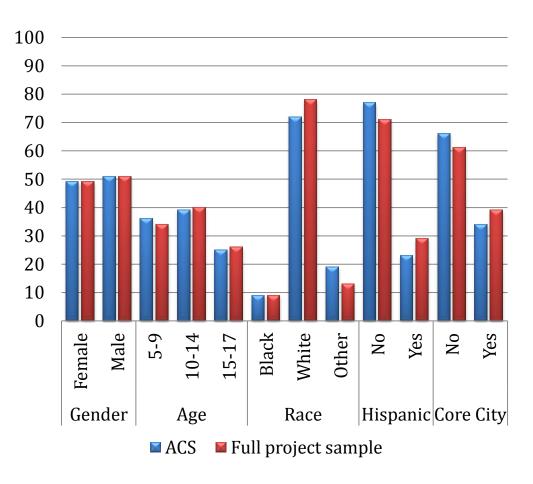
- Regulatory Options
- Legislative Options

THANK YOU

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ACS vs. Full Project Sample

	ACS 2012-2016 (ages 0-17)		BMI project sample (ages 2-17)	
	Count	%	Count	%
Total	212,406	100	248,001	100
Gender				
Female	103,587	49	121,206	49
Male	108,819	51	126,708	51
Missing	-		87	
Age*				
5-9	56,610	36	71,478	34
10-14	62,248	39	83,239	40
15-17	38,781	25	55,434	26
Race**				
Black	19,284	9	14,366	9
White	153,172	72	124,778	78
Other	39,950	19	21,309	13
Missing	-		87,548	
Hispanic				
No	163,038	77	88,179	71
Yes	49,368	23	35,836	29
Unknow n	-		123,986	
Core City				
No ,	140,847	66	151,527	61
Yes	71,559	34	96,474	39



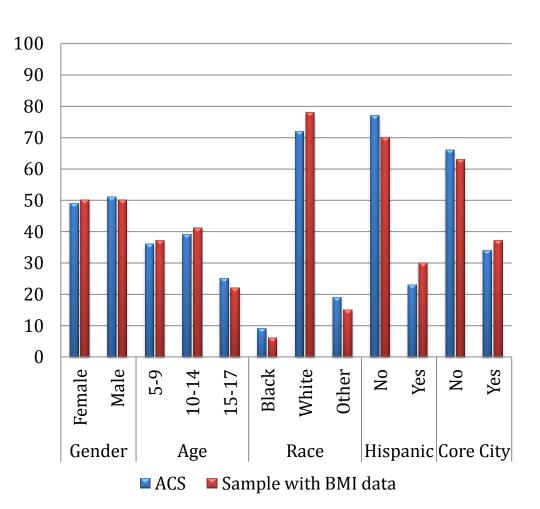
All comparisons statistically significant, p<.001 except for gender

*Data not shown for ages 2-4 because ACS only provides ages 0-4

**Other includes children classified as American Indian/Alaskan Native, Asian, Hawaiian, multi-race, and other

ACS vs. Project Sample with BMI Data

	ACS 2012-2016 (ages 0-17)		KidsNet sample with BMI data (ages 2-17)	
	Count	%	Count	%
Total	212,406	100	41,394	100
Gender				
Female	103,587	49	20,563	50
Male	108,819	51	20,831	50
Missing	-		-	
Age*				
5-9	56,610	36	12,107	37
10-14	62,248	39	13,474	41
15-17	38,781	25	7,030	22
Race**				
Black	19,284	9	2,119	6
White	153,172	72	25,571	78
Other	39,950	19	4,960	15
Missing	-		8,744	
Hispanic				
No	163,038	77	19,024	70
Yes	49,368	23	8,321	30
Unknown	-		14,049	
Core City				
No	140,847	66	26,259	63
Yes	71,559	34	15,135	37



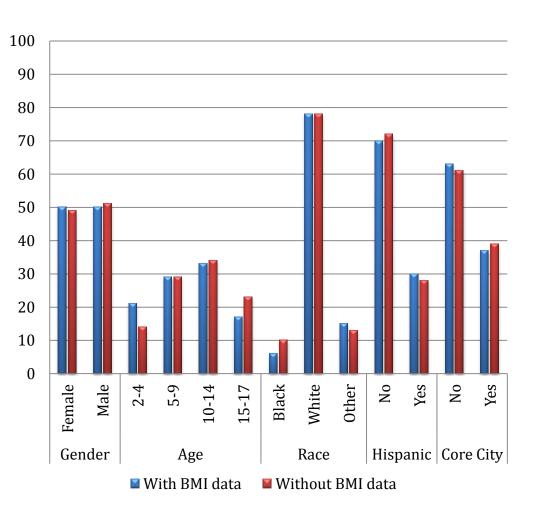
All comparisons statistically significant, p<.001

*Data not shown for ages 2-4 because ACS only provides ages 0-4

**Other includes children classified as American Indian/Alaskan Native, Asian, Hawaiian, multi-race, and other

Project Sample with vs. without BMI Data

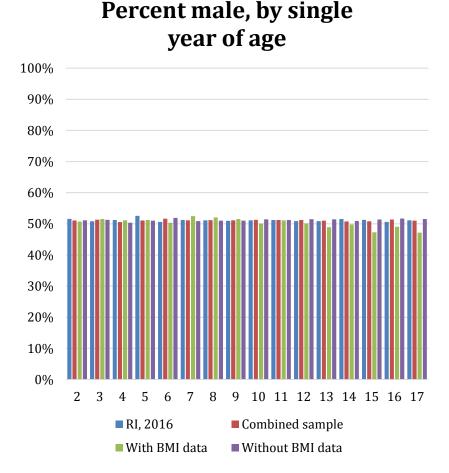
	KidsNet sample		KidsNet sample	
	with BMI data		without BMI data	
	(ages 2-17)		(ages 2-17)	
	Count	%	Count	%
Total	41,394	100	206,607	100
Gender				
Female	20,563	50	100,643	49
Male	20,831	50	105,877	51
Missing	-		87	
Age*				
2-4	8,783	21	29,067	14
5-9	12,107	29	59,371	29
10-14	13,474	33	69,765	34
15-17	7,030	17	48,404	23
Race*				
Black	2,119	6	12,247	10
White	25,571	78	99,207	78
Other	4,960	15	16,349	13
Missing	8,744		78,804	
Hispanic				
No	19,024	70	69,155	72
Yes	8,321	30	27,515	28
Unknow				
n	14,049		109,937	
Core City				
No	26,259	63	125,268	61
Yes comparisons statis	15,135 tically significa	37 nt. p<.001	81,339	39

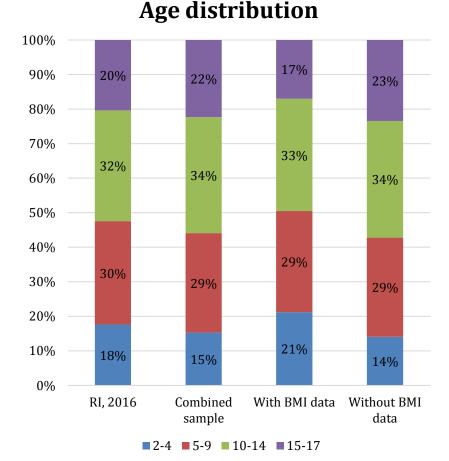


All comparisons statistically significant, p<.001

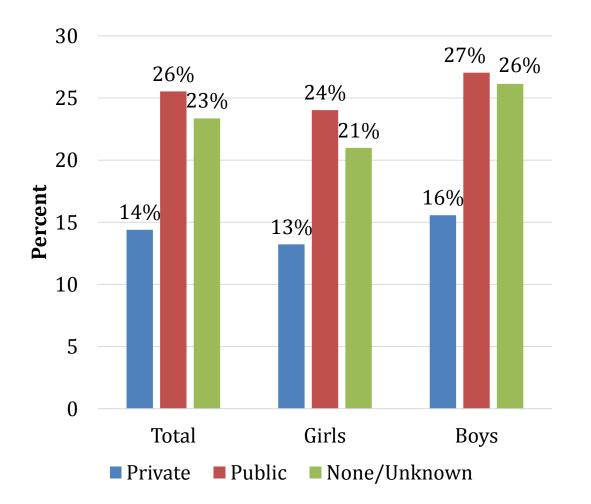
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Age and Gender Distribution: Comparing Census to BMI Project Sample



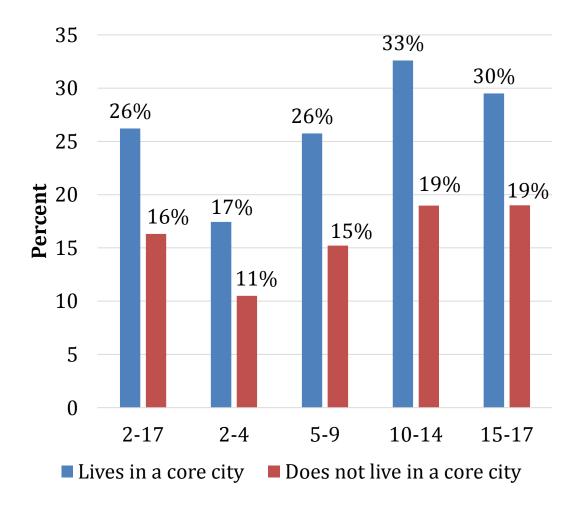


Insurance coverage



Obesity rates are higher for those with public insurance and those with no or unknown coverage

Core city



 One in four children living in a core city are obese

State-level rates

- RI KidsCount Factbook
 - High School Youth Risk Behavior Survey (grades 9-12), 2017: 15%
 - Children under age 18 living in Providence who are active patients of a Providence Community Health Center, 2017: 25%
 - Children age 3-5 enrolled in a Head Start program: 18%
 - Children age 2-4 enrolled in WIC: 18%

BMI project sample: prevalence of obesity among children age 2-17, by sex and age

