Appendix tables

Table 1: Adjusted and unadjusted B-coefficient for increasing antibiotic prescriptions at various time points by poverty level compared to low poverty zip codes

	Unadjusted beta-coefficient (95% CI)		Adjusted beta-coefficient (95% CI)	
	Medium poverty	**High poverty**	**Medium poverty**	**High poverty**
48 hours	0.23* (0.02-0.44)	0.31* (0.09-0.54)	0.12 (-0.16-0.39)	0.20 (-0.11-0.52)
1 week	0.14* (0.04-0.24)	0.15* (0.04-0.26)	0.11 (-0.01-0.23)	0.11 (-0.02-0.24)
1 month	0.18* (0.05-0.32)	0.17* (0.02-0.32)	0.15 (-0.02-0.31)	0.06 (-0.13-0.25)
3 months	0.18* (0.00-0.36)	0.15 (-0.04-0.35)	0.15 (-0.08-0.38)	-0.02 (-0.28-0.24)
6 months	0.18 (-0.02-0.38)	0.13 (-0.09-0.35)	0.19 (-0.06-0.44)	-0.02 (-0.31-0.26)
12 months	0.09 (-0.13-0.31)	0.00 (-0.24-0.25)	0.19 (-0.10-0.47)	-0.04 (-0.36-0.29)

*p<$/$=0.05 and **p=0

Factors adjusted for: NICU stay (yes/no), race/ethnicity (NH white, NH black, Hispanic, Asian, other/unknown), birthweight category (normal, low, high), delivery method (Caesarian section/vaginal), age (grouped into <1, 1-5, 6-10), gender

Appendix table 2: multivariate regressions examining relationship between poverty level (low, medium, and high as determined by percent of population in patient zip code of residence living below the poverty line) and visit type; referent=low poverty

	Unadjusted beta-coefficient (95% CI)		Adjusted beta-coefficient (95% CI)	
	Medium poverty	High poverty	Medium poverty	High poverty
Total outpatient visits	-0.19 (-1.60-1.22)	-2.50* [(-4.06),(-0.94)]	-0.50 (-2.18-1.19)	-1.86 (-3.78-0.06)
Total inpatient visits	0.06 (0.00-0.12)	0.10* (0.03-0.17)	0.01 (-0.06-0.08)	0.00 (-0.08-0.08)
Total emergency department visits	0.53** (0.38-0.68)	1.24** (1.08-1.41)	0.44** (0.24-0.65)	0.82** (0.59-1.06)

*p</=0.05 and **p=0

Factors adjusted for: race/ethnicity (NH white, NH black, Hispanic, Asian, other/unknown), antibiotics (if patient had ever received), NICU, age, birth weight category (low, high, normal), delivery (vaginal/C-section), gender, obesity, overweight, asthma, eczema, & allergic rhinitis

Appendix Table 3: Relationship between race/ethnicity and unadjusted unit increase or decrease in antibiotic usage at various time points

	48 hours	1 week	1 month	3 months	6 months	12 months
Poverty level	**Beta coefficient (95% CI)**					
Race						
NH White	0.0 (referent)	0.0 (referent)	0.0 (referent)	0.0 (referent)	0.0 (referent)	0.0 (referent)
NH Black	0.18 (-0.02-0.39)	0.04 (-0.06-0.14)	0.08 (-0.06-0.22)	0.08 (-0.10-0.26)	-0.02 (-0.22-0.18)	-0.17 (-0.40-0.05)
Hispanic	0.14 (-0.03-0.33)	0.00 (-0.08-0.09)	0.11 (-0.01-0.23)	0.20* (0.06-0.36)	0.17 (-0.01-0.34)	0.00 (-0.20-0.19)
Asian	-0.14 (-0.54-0.27)	-0.05 (-0.24-0.15)	-0.10 (-0.38-0.17)	-0.19 (-0.54-0.16)	-0.30 (-0.69-0.10)	-0.48* (-0.91- -0.04)
Other/unknown	-0.08 (-0.38-0.22)	-0.03 (-0.17-0.11)	-0.04 (-0.24-0.16)	-0.08 (-0.33-0.18)	-0.15 (-0.44-0.14)	-0.17 (-0.49-0.15)

Appendix table 4: Unadjusted odds ratio of receiving at least one dose of antibiotics at various time-points

	48 hours	1 week	1 month	3 months	6 months	12 months	Lifetime
Race							
NH White	0.0 (referent)	0.0 (referent)	0.0 (referent)	0.0 (referent)	0.0 (referent)	0.0 (referent)	referent
NH Black	1.17[c] (0.99-1.38)	1.12 (0.96-1.32)	1.12 (0.96-1.32)	1.07 (0.91-1.24)	0.92 (0.79-1.06)	0.83* (0.73-0.94)	0.77** (0.67-0.89)
Hispanic	1.07 (0.92-1.24)	1.08 (0.94-1.25)	1.12 (0.98-1.29)	1.09 (0.96-1.25)	0.96 (0.85-1.09)	0.84** (0.75-0.94)	0.81** (0.72-0.91)
Asian	0.84 (0.59-1.19)	0.79 (0.56-1.12)	0.82 (0.59-1.16)	0.78 (0.56-1.08)	0.75[d] (0.56-1.02)	0.73* (0.56-0.95)	0.58** (0.45-0.76)
Other/unknown	1.02 (0.80-1.306)	1.00 (0.79-1.27)	0.97 (0.77-1.23)	0.98 (0.78-1.23)	0.95 (0.77-1.17)	0.93 (0.77-1.12)	0.81* (0.67-0.99)

*$p<0.05$ and **$p<0$; a= approaching statistical significance ($p=0.057$); b=approaching statistical significance ($p=0.077$); c=approaching statistical significance ($p=0.063$); d=approaching statistical significance ($p=0.065$)