Supplemental Information

SUPPLEMENTAL TABLE 5 Association Between Well-Child Adherence and Asthma Exacerbations by Type, Stratified by Age, Race, and Insurance Type

Outcome and Stratum	n	Unadjusted, HR (95% CI)	Adjusted for Age, Sex, and Race, HR (95% CI)	Adjusted for Everything Else, HR (95% CI)[a]	Interaction P[b]
Hospital encounters >24 h					
Overall	5656	0.53 (0.39–0.71)	0.51 (0.38–0.70)	0.53 (0.39–0.71)	—
Age 5–11 y	4107	0.56 (0.41–0.78)	0.58 (0.41–0.81)	0.58 (0.42–0.81)	.14
Age 12–18 y	1549	0.35 (0.15–0.81)	0.34 (0.15–0.79)	0.37 (0.16–0.87)	—
Male sex	3190	0.50 (0.34–0.73)	0.50 (0.34–0.72)	0.51 (0.36–0.73)	—
Female sex	2466	0.59 (0.36–0.98)	0.59 (0.36–0.98)	0.58 (0.34–0.99)	—
Non-Hispanic white	1137	0.81 (0.25–2.59)	0.83 (0.27–2.56)	1.15 (0.47–2.85)	<.01
Non-Hispanic Black	3321	0.51 (0.35–0.72)	0.48 (0.34–0.69)	0.50 (0.35–0.71)	—
Hispanic	684	0.71 (0.26–1.98)	0.66 (0.26–1.68)	0.57 (0.20–1.57)	—
Private insurance	2260	0.56 (0.26–1.21)	0.58 (0.27–1.24)	0.69 (0.33–1.43)	.96
Public insurance	3625	0.55 (0.39–0.78)	0.52 (0.36–0.74)	0.50 (0.35–0.70)	—
Self-pay	509	0.67 (0.20–2.27)	0.67 (0.19–2.37)	NA	—
ED and hospital encounters <24 h					
Overall	5656	0.65 (0.55–0.77)	0.65 (0.55–0.77)	0.69 (0.59–0.82)	—
Age 5–11 y	4107	0.68 (0.56–0.82)	0.70 (0.57–0.84)	0.72 (0.60–0.87)	.45
Age 12–18 y	1549	0.51 (0.36–0.73)	0.53 (0.37–0.77)	0.64 (0.44–0.95)	—
Male sex	3190	0.66 (0.53–0.83)	0.68 (0.54–0.85)	0.72 (0.57–0.90)	—
Female sex	2466	0.63 (0.50–0.81)	0.64 (0.50–0.82)	0.69 (0.54–0.88)	—
Non-Hispanic white	1137	0.59 (0.30–1.17)	0.58 (0.29–1.14)	0.68 (0.35–1.34)	.49
Non-Hispanic Black	3321	0.62 (0.52–0.75)	0.62 (0.51–0.74)	0.66 (0.55–0.80)	—
Hispanic	684	0.97 (0.58–1.61)	0.94 (0.55–1.60)	0.90 (0.54–1.52)	—
Private insurance	2260	0.88 (0.56–1.39)	0.91 (0.57–1.43)	0.94 (0.59–1.51)	.93
Public insurance	3625	0.68 (0.56–0.82)	0.65 (0.54–0.79)	0.65 (0.54–0.78)	—
Self-pay	509	0.82 (0.37–1.82)	0.79 (0.35–1.76)	0.87 (0.40–1.91)	—
Urgent care encounters					
Overall	5656	0.84 (0.72–0.98)	0.82 (0.70–0.97)	0.78 (0.66–0.92)	—
Age 5–11 y	4107	0.83 (0.70–0.98)	0.84 (0.71–1.00)	0.79 (0.67–0.94)	.93
Age 12–18 y	1549	0.87 (0.54–1.39)	0.88 (0.56–1.37)	0.96 (0.59–1.56)	—
Male sex	3190	0.86 (0.70–1.07)	0.85 (0.69–1.05)	0.78 (0.63–0.96)	—
Female sex	2466	0.80 (0.63–1.01)	0.78 (0.61–0.99)	0.79 (0.61–1.01)	—
Non-Hispanic white	1137	0.99 (0.55–1.77)	0.97 (0.55–1.69)	0.95 (0.55–1.64)	.50
Non-Hispanic Black	3321	0.83 (0.68–1.01)	0.79 (0.65–0.97)	0.75 (0.61–0.92)	—
Hispanic	684	1.01 (0.67–1.51)	0.97 (0.65–1.45)	0.86 (0.58–1.28)	—
Private insurance	2260	0.74 (0.55–0.99)	0.74 (0.56–1.00)	0.75 (0.56–1.01)	.60
Public insurance	3625	0.87 (0.72–1.06)	0.86 (0.71–1.05)	0.82 (0.67–1.00)	—
Self-pay	509	0.56 (0.13–2.47)	0.57 (0.12–2.63)	0.95 (0.12–7.68)	—
Outpatient encounters					
Overall	5656	1.26 (1.12–1.42)	1.21 (1.07–1.36)	1.17 (1.04–1.31)	—
Age 5–11 y	4107	1.28 (1.12–1.45)	1.25 (1.10–1.42)	1.21 (1.06–1.37)	.48
Age 12–18 y	1549	1.20 (0.90–1.59)	1.18 (0.89–1.56)	1.20 (0.90–1.62)	—
Male sex	3190	1.36 (1.18–1.57)	1.30 (1.13–1.51)	1.23 (1.07–1.43)	—
Female sex	2466	1.19 (0.98–1.43)	1.14 (0.94–1.37)	1.13 (0.93–1.36)	—
Non-Hispanic white	1137	1.19 (0.91–1.56)	1.18 (0.91–1.53)	1.26 (0.98–1.62)	.44
Non-Hispanic Black	3321	1.22 (1.05–1.41)	1.19 (1.03–1.38)	1.11 (0.96–1.29)	—
Hispanic	684	1.97 (1.31–2.94)	1.93 (1.29–2.91)	1.72 (1.13–2.63)	—
Private insurance	2260	1.07 (0.90–1.27)	1.06 (0.89–1.26)	1.09 (0.92–1.29)	.01
Public insurance	3625	1.31 (1.12–1.54)	1.25 (1.06–1.47)	1.20 (1.02–1.42)	—
Self-pay	509	3.42 (1.01–11.53)	2.70 (0.76–9.62)	3.22 (0.92–11.32)	—

Values represent HRs (95% CIs) for having the event for patients who had expected well-child visits versus those who did not among patients in the well-child cohort. All models are stratified by number of events. —, not applicable.

[a] Adjustment variables are age, sex, race, insurance type, number of encounters in the past year, atopy, obesity, and medication use. Models stratifying by a variable do not additionally adjust for that variable. Age groups represent age at time of first well-child visit. Insurance status strata include patients who have had the insurance status at any point during their follow-up (so some patients may be counted in multiple categories).

[b] Interaction models include all covariates and the interactions of interest alone; reference groups are age 5–11 y, male sex, Non-Hispanic white race, and private insurance.