

Table 3 Multiple regression of recurrent acute chest syndrome (N=709)[§]

Characteristics	IRR (95% CI)
<i>Residential</i>	
High area deprivation (ADI 7-10)	0.76 (0.58–1.01)
≥90% African American neighborhood	0.60 (0.39–0.94)*
Non-metro area (RUCA 4-10)	1.20 (0.87–1.65)
<i>Sociodemographic</i>	
Age	1.01 (0.98–1.04)
Male	1.86 (1.38–2.50)***
Public health insurance	0.89 (0.65–1.22)
<i>Clinical</i>	
Chronic transfusions	1.00 (0.73–1.38)
Hydroxyurea	2.89 (1.74–4.80)***
Asthma	2.62 (1.89–3.63)***
BMI	1.02 (0.99–1.06)
Phenotype	
SS	(reference) 1.0
SB0	0.81 (0.45–1.45)
SB+	0.18 (0.04–0.72)*
SC	0.34 (0.19–0.61)***
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[§]Adjusted for age, sex, insurance type, BMI, chronic transfusions, hydroxyurea, asthma, and phenotype.

Boldface indicates statistical significance: ***p<0.001, **p<0.01, *p<0.05; two-tailed tests.

AA=African American; ACS=Acute Chest Syndrome; ADI=Area Deprivation Index; BMI=Body Mass Index; RUCA=Rural Urban Commuting Area