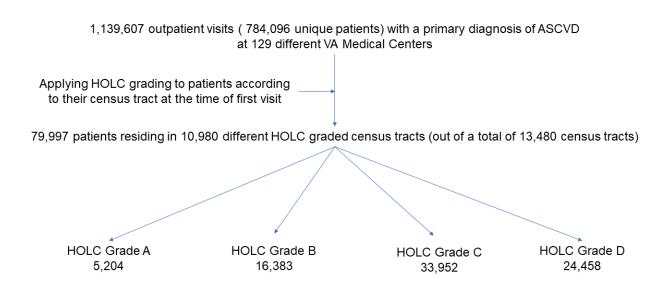
Supplementary Online Content

Deo SV, Motairek I, Nasir K, et al. Association between historical neighborhood redlining and cardiovascular outcomes among US veterans with atherosclerotic cardiovascular diseases. *JAMA Netw Open.* 2023;6(7):e2322727. doi:10.1001/jamanetworkopen.2023.22727

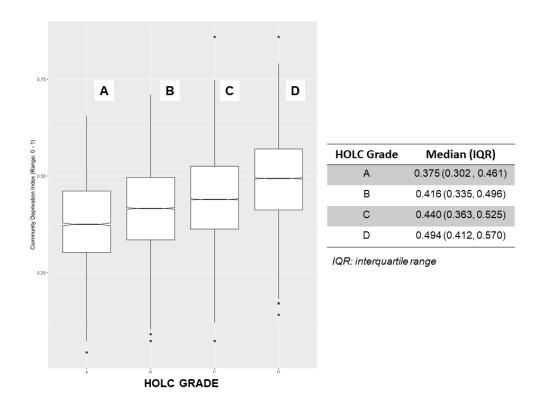
- eFigure 1. CONSORT Flow Diagram Presenting Cohort Selection
- **eFigure 2.** Distribution of the Community Deprivation Index Across HOLC Graded Census Tracts
- **eTable 1.** Baseline Characteristics Between Patients Included and Excluded From Our Cohort Study
- eTable 2. Complete Case Analysis
- eTable 3. The Association Between HOLC Grade and Cardiovascular Outcomes
- eTable 4. Subgroup Analysis of MACE According to Race and Ethnicity

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1. CONSORT flow diagram presenting cohort selection.



eFigure 2. Distribution of the community deprivation index across HOLC graded census tracts



HOLC=Home Owner's Loan Corporation; IQR = interquartile range

eTable 1. Baseline Characteristics between patients included and excluded from our cohort study

	Included Patients	Excluded Patients
	(n = 79,997)	(n = 704,099)
Age (years)	74.46 (10.16)	73.94 (9.89)
Female	2.9%	4%
Race		
Asian	0.6%	0.5%
Black	37.3%	8%
Declined	4.2%	4.3%
Native	1.1%	1.5%
White	55.7%	80.1%
Unknown	1.1%	1.8%
Ethnicity		
Hispanic	5.4%	4.6%
Not Hispanic	91.8%	91.8%
Unknown	2.7%	2.9%
Community deprivation index	0.44 (0.11)	0.50 (0.26)
(Range: 0 – 1)		
Hypertension	83%	83%
Diabetes	48%	47%

^{© 2023} Deo SV et al. JAMA Network Open.

Heart Failure	14.2%	12%
Atrial Fibrillation	16.6%	18.1%
Chronic Obstructive Pulmonary Disease	21%	21.2%
Prior Myocardial Infarction	3%	3.4%
Prior Percutaneous Coronary Intervention	2.6%	3%
Systolic Blood Pressure (mmHg)	134.81 (20.79)	133.40 (19.68)
Diastolic Blood Pressure (mmHg)	75.01 (11.93)	74.26 (11.12)
Low-Density Lipoprotein Cholesterol (mg/dL)	87.15 (34.56)	89.23 (38.01)

eTable 2. Complete case analysis

As a sensitivity analysis, we also fit the fully adjusted model as a complete case analysis without imputation. We observed that this did not change our primary findings using the imputed data sets.

HOLC Grade (Ref: Grade A)	Hazard Ratio (95% Confidence interval)	p-value
В	0.96 (0.91, 1.01)	0.18
С	0.98 (0.93, 1.03)	0.50
D	1.06 (1.00, 1.12)	0.02

HOLC=Home Owner's Loan Corporation

eTable 3. The association between HOLC grade and cardiovascular outcomes

	Model 1	Model 2	Model 3		
	Sub-distribution Hazard ratio (95% confidence interval)				
Myocardial Infarction (Myocardial Infarction (Ref. category HOLC-A)				
HOLC B	1.078 (0.950, 1.222), P=0.24	1.043 (0.918, 1.184), P=0.51	0.980 (0.861,1.116); p = 0.76		
HOLC C	1.112 (0.987, 1.253), P=0.08	1.058 (0.937, 1.194), P=0.35	0.966 (0.853,1.093); p = 0.58		
HOLC D	1.310 (1.161, 1.478), P< 0.001	1.230 (1.088, 1.391), P< 0.001	1.148(1.011, 1.303); p = 0.03		
Stroke (Ref. category:	Stroke (Ref. category: HOLC-A)				
HOLC B	0.958 (0.623, 1.463), P=0.83	0.867 (0.564, 1.330), P=0.51	0.793 (0.523,1.221; p = 0.30		
HOLC C	0.946 (0.630, 1.420), P=0.78	0.842 (0.560, 1.265), P=0.4	0.754 (0.505, 1.128); p = 0.17		
HOLC D	1.089 (0.724, 1.638), P=0.68	0.952 (0.632, 1.434), P=0.81	0.889 (0.584, 1.353); p = 0.58		
Major Adverse Limb Event (Ref. category: HOLC-A)					
HOLC B	1.013 (0.625, 1.640), P=0.95	0.921 (0.563, 1.502), P=0.74	Could not be reported as the		
HOLC C	1.534 (0.982, 2.396), P=0.06	1.376 (0.872, 2.168), P=0.16	regression model failed to converge		
HOLC D	1.534 (0.977, 2.408), P=0.06	1.328 (0.834, 2.113), P=0.23			

Model 1 = unadjusted; Model 2 = adjusted for age, sex, race, ethnicity; Model 3 = adjusted for age, sex, race, ethnicity, diabetes, COPD, hypertension, atrial fibrillation, heart failure, baseline LDL, prior MI, prior PCI, obesity, chronic kidney disease, and the community deprivation index

HOLC=Home Owner's Loan Corporation

eTable 4. Subgroup analysis of MACE according to race and ethnicity

Subgroup	HOLC Grade	HR	p-value
White	B vs A	0.98 (0.92, 1.04)	0.61
	C vs A	0.98 (0.93, 1.05)	0.71
	D vs A	1.10 (1.03, 1.05)	0.003
Black	B vs A	0.91 (0.82, 1.00)	0.06
	C vs A	0.96 (0.87, 1.05)	0.40
	D vs A	1.00 (0.91, 1.09)	0.97
Hispanic	B vs A	0.83 (0.64, 1.09)	0.18
	C vs A	0.88 (0.69, 1.13)	0.33
	D vs A	1.01 (0.79, 1.29)	0.88
Not Hispanic	B vs A	0.97 (0.92, 1.02)	0.24
	C vs A	0.98 (0.93, 1.03)	0.49
	D vs A	1.05 (1.00, 1.10)	0.04

HOLC=Home Owner's Loan Corporation; HR=hazard ratio