

Supplementary tables for resident racial and ethnic composition, neighborhood-level socioeconomic status and COVID-19 infections in California SNFs

Supplementary Table S1. Association of racial and ethnic composition with COVID-19 incidence rate with multiple scenarios

Model	Majority White Residents (IRR [95% CI])	Mixed (IRR [95% CI])	High Proportion Black or Hispanic/Latinx Residents (IRR [95% CI])
Scenario 1	Ref	2.02 (1.43, 2.85)*	2.73 (1.82, 4.09)*
Scenario 2	Ref	1.85 (1.34, 2.56)*	1.96 (1.31, 2.93)*

Abbreviation: Incidence Rate Ratio (IRR), Confidence intervals (CI).

*Indicates p-value <0.05.

Scenario 1 = Changing thresholds for SNFs categorized for Black or Hispanic/Latinx residents from 32% to 25%.

Scenario 2 = Changing thresholds for SNFs with majority White residents from 88% to 80%.

Models adjust for number of certified beds, facility average age, proportion of residents on Medi-Cal, activities daily living score, overall facility rating, healthy places index score, proportion of neighborhood Black or Hispanic/Latinx, operating margin, and county COVID-19 incidence.

Supplementary Table S2. Facility ownership by skilled nursing facility resident racial and ethnic composition

Variable	Mixed (Mean [SD])	≥32% Black or Hispanic/Latinx (Mean [SD])	≥88% White (Mean [SD])
Government %	0.0	0.5	0.0
Not-for-profit %	10.2	3.3	31.1
Profit %	89.8	96.3	68.9

Supplementary Table S3. Association of racial and ethnic specific composition with COVID-19 incidence rate

Model	Majority White Residents (IRR [95% CI])	High Proportion Black Residents (IRR [95% CI])	High Proportion Hispanic/Latinx Residents (IRR [95% CI])
Model 1	Ref	1.27 (0.76, 2.12)	3.25 (1.84, 4.77)*
Model 2	Ref	1.24 (0.69, 2.24)	2.84 (1.79, 4.51)*
Model 3	Ref	0.86 (0.52, 1.41)	1.54 (0.99, 2.39)

Abbreviation: Incidence Rate Ratio (IRR), Confidence intervals (CI).

*Indicates p-value <0.05.

Model 1 = Adjusts for number of certified beds, facility average age, proportion of residents on Medi-Cal, activities daily living score, overall facility rating, operating margin, and employee turnover.

Model 2 = Model 1 + Healthy places index score, and proportion of neighborhood Black or Hispanic/Latinx.

Model 3 = Model 2 + County COVID-19 incidence.

