



Supplemental Figure S1. Comparison of demographic, insurance, and social vulnerability between COSMOS patients and the US Census. Adapted from <https://Cosmos.epic.com/>.

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|---|--|
| Socioeconomic status | Below poverty Unemployed Income No high school diploma |
| Household composition & disability | Aged 65 or older Aged 17 or younger Older than age 5 with a disability Single-parent households |
| Minority status & language | Minority Speaks English “less than well” |
| Housing type & transportation | Multi-unit structures Mobile homes Crowding No vehicle Group quarters |

Supplemental Figure S2. SVI sub-groups.

Supplemental Table S1. ICD-10-CM codes are used to identify Oral Cleft Cohorts.

| Cohort | ICD-10-CM | |
|-----------------------------|-----------------------|-----------------|
| | Included | Excluded |
| Any Oral Cleft (AOC) | Q35.* + Q36.* + Q37.* | - |
| Any Cleft Palate (ACP) | Q35.*+ Q37.* | - |
| Isolated Cleft Palate (ICP) | Q35.* | Q36.* + Q37.* |
| Any Cleft Lip (ACL) | Q36.* + Q37.* | - |
| Isolated Cleft Lip (ICL) | Q36.* | Q35.*+ Q37.* |
| Cleft Lip and Palate (CLP) | Q37.* | - |

Supplemental Table S2. 4 main SVI categories divided by subgroup

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|--|--|
| <p>Socioeconomic status</p> | <p>Below poverty Unemployed Income No high school diploma</p> |
| <p>Household composition & disability</p> | <p>Aged 65 or older Aged 17 or younger Older than age 5 with a disability Single-parent households</p> |
| <p>Minority status & language</p> | <p>Minority Speaks English “less than well”</p> |
| <p>Housing type & transportation</p> | <p>Multi-unit structures Mobile homes Crowding No vehicle Group quarters</p> |