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Severity of Inpatient Hospitalizations Among Undocumented Immigrants and Medi-Cal Patients in a Los Angeles, California, Hospital: 2019.

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1 **Examining the Severity of Inpatient Hospitalizations**
2 **among Undocumented Patients in a Los Angeles Hospital, 2019**
3

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9

10 **Abstract**

11 **Objective:** To compare the severity of inpatient hospitalizations between undocumented
12 immigrants and Medi-Cal patients in a large safety-net hospital in Los Angeles.

13 **Methods:** We conducted a retrospective analysis of all 2019 inpatient stays at a Los Angeles
14 hospital (n=22,480), including patients of all races/ethnicities. We examined three measures:
15 illness severity, length of hospital stay, and repeat hospitalizations, using insurance status to
16 approximate immigration status. We calculated group differences between undocumented and
17 Medi-Cal patients using inverse probability weighted regression adjustment separately for
18 patients 18-64 and those 65 years and older.

19 **Results:** Younger undocumented patients had less severe illness and shorter lengths of stay than
20 their Medi-Cal counterparts. Older undocumented immigrants also had less severe illness, but
21 had similar lengths of stay and were more likely to have repeated hospitalizations.

22 **Conclusions:** While existing work suggests that undocumented immigrants could have more
23 severe health care needs on account of their poorer access to medical care, we do not see clear
24 health disadvantages among hospitalized undocumented immigrants, especially younger patients.
25 There are fewer differences between undocumented and Medi-Cal patients who are older.

26

27 **Introduction**

28 There is growing interest in how immigration status affects the health care access and
29 utilization of 10.5 million undocumented immigrants¹ in the United States. Undocumented
30 immigrants have significantly lower levels of insurance coverage, lower use of the emergency
31 room, and are less likely to have a usual source of care compared to both their documented
32 counterparts as well as the US-born.^{2,3} These disparities are due to lower household incomes and
33 ineligibility for Medicaid and Medicare, as well as lack of private insurance from employers.
34 Even when health care are available, undocumented immigrants may be reluctant to access it due
35 to the fear of deportation for themselves or their families.^{4,5} Undocumented immigrants also face
36 challenges accessing the limited care that is available to them due to economic barriers and
37 unfamiliarity with the health care system.⁶

38 Despite worse access to and lower utilization of health care, undocumented immigrants
39 do not seem to have widespread negative physical health. In a review of 45 studies, Hamilton et
40 al.⁷ found that the large majority did not observe undocumented immigrants to have significantly
41 worse health than their documented counterparts. In some studies, undocumented immigrants
42 actually seemed to have better health outcomes for conditions such as blood pressure,
43 hypertension, asthma, and self-reported chronic conditions. A nationally representative sample
44 confirmed the diverging trends between health insurance coverage and health status: Ro and Van
45 Hook⁸ found that undocumented immigrants had lower odds of being currently insured but also
46 had lower odds of disability and poor/fair self-rated health compared to the US-born.

47 While undocumented immigrants' limited health care access and robust physical health
48 patterns may appear contradictory, these findings rely on self-reported health status in surveys

49 and may capture their health care utilization when individuals are relatively healthy.
50 Undocumented immigrants tend to be younger than their documented counterparts,⁸ suggesting
51 that some chronic health conditions may not have yet emerged or have not reached the point of
52 requiring serious medical intervention. Undocumented immigrants are also more likely to be
53 positively selected on health, given the costs and risks inherent in unauthorized migration.⁹
54 Undocumented immigrants' younger age and positive health selection may buoy their general
55 health status, and as a result, they may not seek regular medical care.

56 What is unknown, however, is the health status of undocumented immigrants when they
57 reach the point of needing intensive medical care and their health needs when they are in close
58 contact with the health care system. As immigrants stay longer in the United States, their positive
59 health advantage erodes.¹⁰ In the case of undocumented immigrants, initial health advantages can
60 obscure longer-term care needs as their health deteriorates over time. In the general population,
61 those who are uninsured or do not have regular medical care are more likely to enter the health
62 care system in poorer health and have worse outcomes for both overall health and specific
63 diseases.¹¹ Given their overall lack of medical care access, it is possible that undocumented
64 immigrants will display poorer health outcomes than other groups when they are at the point of
65 needing higher level care. Moreover, consistent underutilization of preventive services may leave
66 them with more advanced stages of disease when they eventually need medical attention.

67 The extant literature has provided only limited or dated information on this topic. One
68 study found uninsured undocumented immigrants hospitalized in Florida to have higher Case-
69 Mix index (a measure of disease severity) but shorter hospital stays than immigrants with legal
70 status.¹² Among patients in select cities in California and Texas, undocumented immigrants had
71 the same levels of hospitalizations as documented immigrants, with the exception of childbirth.¹³

72 Treatment of End Stage Renal Disease (ESRD) among undocumented immigrants has been
73 widely studied as an example of a life-threatening condition that requires intensive medical
74 treatment but is highly mediated by access to health care. Undocumented immigrants with ESRD
75 are more likely to receive emergency-only hemodialysis than standard hemodialysis,¹⁴ which is
76 associated with increased mortality, health care utilization, and costs.^{15,16}

77 In this study, we explore the severity of hospitalizations among undocumented
78 immigrants of all races/ethnicities who have required inpatient stays at the largest-safety net
79 hospital in Los Angeles County. LA County has the largest population of undocumented
80 immigrants country; there are nearly 880,000 undocumented immigrants, representing a wide
81 number of countries of origin.¹⁷ We use insurance status to approximate immigration status,
82 leveraging the county's unique health plans for undocumented immigrants to accurately estimate
83 the likely undocumented population. Addressing this knowledge gap will reveal potential unmet
84 needs of undocumented immigrants in the hospital setting during critical periods of illness, as
85 well as possible disparities in inpatient health care.

86 **Methods**

87 Sample

88 The study was a retrospective analysis of all inpatient stays at Los Angeles County +
89 University of Southern California (LAC+USC) Medical Center from January 1, 2019 to
90 December 31, 2019. We merged two data sources: the LAC+USC internal electronic medical
91 records system using Cerner PowerInsight and Vizient Health System Data, a hospital billing and
92 administrative claims database. All data were de-identified to conform to Health Insurance
93 Portability and Accountability Act (HIPAA) requirements. This study was deemed exempt by
94 the USC Institutional Review Board.

95 We examined the data at both the encounter and patient level. For encounter data, there
96 were 29,765 total inpatient hospitalizations at LAC+USC in 2019. We limited the sample to
97 hospitalizations with patients 18 years of age and older and who were full-scope Medi-Cal
98 patients (California’s Medicaid program) or undocumented (coding detailed below). Our final
99 analytic sample consisted of 22,480 inpatient encounters. In our analyses, we separated the
100 sample by age (18-64 years and 65 years and older) because of differences in health status at
101 older ages and public insurance coverage (18-64 years=18,244; 65 years and older=4,236). For
102 the older adults, we limited the sample to those who only had Medi-Cal or a combination of
103 Medi-Cal and Medicare to better isolate a low-income comparison group. For outcomes that used
104 patient-level data (e.g. unique number of patients who were admitted to LAC+USC in 2019),
105 there were 15,876 patients (18-64 years=12,910; 65 years and older=2,966).

106 Variables

107 *Outcomes.* We examined three outcomes indicating the severity of the hospitalization:
108 illness severity, length of hospital stay, and repeat hospitalization.

109 Illness severity was measured by the relative risk of mortality, which was calculated by a
110 proprietary algorithm that predicts the risk for mortality based on patient demographics, clinical
111 characteristics, procedures, and co-morbidities for each Medicare Severity-Diagnosis Related
112 Group (MS-DRG). For example, the risk prediction for a liver transplant (MS-DRG 5 or 6) was a
113 function of hemodialysis, cachexia, complication of transplanted organ/tissue, ventilator on
114 admission day, and Type II Diabetes. The risk for mortality was averaged over all encounters in
115 the hospital for each diagnosis group in 2019. Encounters that were 75% of the mean were coded
116 “lower risk” relative to the mean. Encounters that were within 75% and 125% of the mean were
117 coded “similar risk” and encounters more than 125% of the mean were considered “higher risk”.

118 We dichotomized the outcome to hospitalizations lower or similar to the mean versus those with
119 higher risk of mortality.

120 Length of hospital stay was the total number of days of the inpatient admission, with
121 longer encounters indicating sicker patients. This was an encounter-level variable, meaning that
122 each hospitalization had its own length of stay. To account for outliers, we conducted additional
123 analyses with encounters longer than 21 days removed.

124 Repeat hospitalization was a patient-level variable and was dichotomized to patients who
125 had one inpatient admission in 2019 versus those who had more than one admission. We
126 assumed those with more than one admission were sicker and needed more comprehensive care.
127 Though it is possible that repeated hospitalizations might be due to unrelated/isolated events (e.g.
128 injuries), it is more likely that repeated hospitalizations result from unresolved/ongoing illness.

129 *Immigration Status.* We compared undocumented immigrants to full-scope Medi-Cal
130 patients using insurance status as a proxy to determine immigration status. We coded a patient as
131 having undocumented status if the primary insurance for the encounter was restricted-scope
132 Medi-Cal, which provides health services to low-income Los Angeles County residents who
133 meet the income threshold for Medi-Cal but do not meet immigration status requirements as
134 either US nationals, citizens, or lawful permanent residents. These services include access to
135 county facilities that provide preventive, emergency, diagnostic, specialty, inpatient, and
136 pharmacy services, as well as a local health care program (My Health LA), that offers primary
137 and preventive health care services through community clinic partners.¹⁸

138 Given the income requirement for restricted-scope Medi-Cal eligibility, we chose full-
139 scope Medi-Cal (hereafter referred to as Medi-Cal) patients as a comparison group of low-
140 income patients who are either US-born or foreign-born with authorized status. Because of the

141 citizenship requirements for federal health insurance, nearly all of the Medi-Cal patients are
142 either US-born or documented. The other option for a comparison group is individuals on other
143 forms of insurance (e.g. private insurance), but we do not know either the poverty level or the
144 immigration status of these patients.

145 *Covariates.* We included age as a continuous variable, race/ethnicity (Hispanic (ref.),
146 non-Hispanic White, non-Hispanic Black, non-Hispanic Asian, non-Hispanic other), language
147 (English (ref.), Spanish, other), gender (male (ref.), female), homeless status (housed (ref.), non-
148 housed). We include language preference to account for reduced English proficiency that can
149 impact treatment utilization and quality.¹⁹ As the primary safety net hospital in the county,
150 LAC+USC has a substantial homeless patient population. We include homeless status to account
151 for the substantial barriers to regular medical care that unhoused individuals face, as well as their
152 complex health conditions.²⁰ For encounter-level outcomes, we included an indicator of whether
153 the encounter was the only admission for the patient in 2019 (ref.) or if it was a repeat
154 hospitalization. For instance, if an encounter was one of two or more hospitalizations from a
155 patient in 2019, all encounters from that patient were coded “1”. If an encounter was the only
156 hospitalization from a patient in 2019, it was coded “0”.

157 Analysis

158 Because of the inherent compositional differences between undocumented and Medi-Cal
159 patients, we estimated group differences in our outcomes of interest using inverse probability
160 weighted regression adjustment (IPWRA). This approach weights observations based on the
161 inverse of their conditional probability of “treatment” exposure (i.e., being undocumented). The
162 “treatment” model is estimated first, and the predicted probability of being “treated” (ie,

163 undocumented) is used to compute the inverse-probability weights. These weights are then
164 applied to the outcome models (ie, illness severity, length of stay, repeat admission), creating a
165 pseudo-matched sample, such that undocumented and Medi-Cal patients are balanced in their
166 covariates. In conventional multivariate regression analysis, covariates are included in the model
167 to account for compositional differences but each observation is weighted equally. In IPWRA
168 models, observations that have a higher likelihood of being “treated” (ie, undocumented) are up-
169 weighted while those that have lower likelihood are down-weighted. IPWRA is also known as
170 the doubly-robust method because it models both the outcome and propensity for “treatment”
171 within the same framework and only one needs to be correctly specified in order to produce
172 unbiased results.²¹

173 Each weighted outcome model is run on the undocumented group first and then the
174 comparison group. We calculated average treatment effects (ATE), a common post-estimation
175 approach for treatment effects models such as the IPWRA,²² for each of our outcomes. The ATE
176 take a counterfactual approach and assume that each subject has a pair of potential outcomes: the
177 outcome if they were undocumented or the outcome if they were on Medi-Cal. The predicted
178 means (POM) for the outcome is calculated for each observation assuming they are
179 undocumented (using their own covariate values) and then again for each observation assuming
180 they are on Medi-Cal. For each observation, the difference between the undocumented POM and
181 Medi-Cal POM is called the effect of “treatment”. This difference is averaged across the entire
182 population to calculate the ATE.

183 For the “treatment” model (i.e., undocumented versus Medi-Cal), we included age, race,
184 language, gender and homeless status as predictors of undocumented status. For the outcome
185 models (i.e., illness severity, length of stay, repeat admission), we included the same covariates

186 as the “treatment” model as well as whether the encounter was a repeat hospitalization for the
187 illness severity and length of stay outcomes. For illness severity and repeat admissions, we
188 conducted logistic regressions, whereas for length of stay, we conducted a linear regression
189 model. We calculated robust standard errors to correct for potential for heteroskedasticity. We
190 did this separately for patients 18-64 versus 65 years and older. We conducted our analyses using
191 Stata v16.²³ We provide the coefficients for the IPWRA models in the supplemental material.

192 **Results**

193 Descriptives

194 Table 1 provides descriptive information for our sample at the encounter level. The same
195 descriptive statistics at the patient level are provided in Supplemental Table 1. Nearly one-third
196 of encounters were from undocumented patients (31.6%). The mean age for younger
197 undocumented patients (18-64) was 45.8 for undocumented patients and 41.6 for Medi-Cal
198 patients. Among older patients (65+ years), the mean age was 73.1 for undocumented and 73.8
199 for Medi-Cal. Undocumented patients in both age groups were predominantly Hispanic (18-64
200 years: 91.8% vs. 65+ years: 86.5%). Medi-Cal patients in both age groups were also
201 predominantly Hispanic, but comprised a lower proportion (18-64 years: 62.5% vs. 65+ years:
202 57.2%).

203 Undocumented patients primarily spoke Spanish (18-64 years: 82.5%; 65+ years: 84.8%),
204 whereas Medi-Cal patients had differences in language preference according to age group.
205 Notably, homelessness was nearly three-fold greater among Medi-Cal patients compared to
206 undocumented patients across age groups (18-64 years: 18.8% vs. 6.6%; 65+ years: 13.3% vs.
207 4.8%).

208 Compared to Medi-Cal patients, undocumented patients had lower illness severity and
209 average length of stay. Among younger patients, 8.6% of undocumented patients had higher than
210 average relative mortality risks compared to 11.2% of Medi-Cal patients. Among older patients,
211 15.8% of undocumented patients had higher than average mortality risk compared to 23.1% of
212 Medi-Cal patients. The average length of stay in the hospital was 4.6 days for undocumented and
213 6.1 days for Medi-Cal among younger patients and 5.2 days and 6.8 days, respectively, among
214 older patients. Among younger patients, inpatient encounters over the study period were
215 comparable between undocumented and Medi-Cal patients, in which approximately 70.7% were
216 first encounters and 29.1% were repeat hospitalizations. However, among older patients,
217 undocumented patients had more repeat hospitalizations compared to Medi-Cal patients (34.8%
218 vs. 24.8%).

219 Group Differences in Inpatient Measures

220 The results of the IPWRA are presented in Table 2. For patients 18-64 years of age,
221 encounters with undocumented patients had lower illness severity and shorter lengths of stay
222 than encounters with Medi-Cal patients. The probability of having an encounter with a higher-
223 than-average risk for mortality was 8.4% for undocumented patients and 11.6% for Medi-Cal
224 patients. Encounters from undocumented patients therefore had 3.2% lower probability of a
225 higher-than-average mortality risk compared to encounters from Medi-Cal patients. The average
226 length of stay for encounters from undocumented patients was 1.1 days shorter than for Medi-
227 Cal patients (5 days versus 6.1 days). Among younger patients, the probability of having a repeat
228 hospitalization in 2019 did not significantly differ between undocumented and Medi-Cal patients.
229 Both groups had a probability of repeat hospitalization that was around 22%.

230 For patients over 65 years of age, encounters from undocumented patients had similarly
231 lower illness severity. Encounters from undocumented patients therefore had 6.5% lower
232 probability for a higher-than-average risk encounter (15.7% vs. 22.2%). There was no
233 significance difference in predicted length of stay. However, the probability of having a repeated
234 hospitalization was higher for undocumented patients compared to Medi-Cal patients.
235 Undocumented patients had a 26.5% probability of having a repeat hospitalization in 2019 while
236 Medi-Cal patients had a 22.0% probability, with a statistically significant difference in
237 probabilities of 4.5%.

238 *Sensitivity Checks.* We conducted several sensitivity checks to confirm the robustness of
239 our findings. We also limited the sample to those who identified as Hispanic/Latino, which was
240 72% of the under 65 sample and 62% of the over 65 sample. For encounter-level outcomes
241 (relative risk of mortality and length of stay), we kept only one encounter per patient. The results
242 were qualitatively similar for all of these checks (see Supplemental Table 2).

243 For the length of stay outcome, we removed outliers whose inpatient stays were over 21
244 days. For encounters with patients 18-64 years of age, the difference in predicted length of stay
245 dropped to 0.5 days but remained significantly different from zero. For patients 65 years and
246 older, the difference dropped to 0.1 and remained non-significant.

247 **Discussion**

248 This study compared the severity of inpatient stays between undocumented and full-
249 scope Medi-Cal patients at the largest safety-net hospital in Los Angeles County. Our results
250 provide insight into the health status of undocumented immigrants at the point of needing
251 inpatient medical care, using measures of illness severity, length of hospital stay, and repeat

252 hospitalizations. In our study, younger undocumented patients who were hospitalized had less
253 severe illness and spent less time in the hospital compared to Medi-Cal patients. While existing
254 work suggests that undocumented immigrants could have higher risk for poorer inpatient
255 outcomes on account of their limited access to medical care,²⁴ the younger undocumented
256 patients in this study do not present with more severe health problems upon hospital admission.
257 Our findings add to others that have found positive health trends among undocumented
258 immigrants compared to documented immigrants or US-born counterparts.^{7,8}

259 These trends were consistent among older undocumented immigrants as well, but older
260 undocumented patients were more likely to have repeat hospitalizations than their Medi-Cal
261 counterparts. Lower illness severity among older undocumented patients, however, suggests that
262 their higher likelihood of repeat hospitalizations may represent a higher willingness to access
263 care rather than comparatively poorer health. While qualitative work has suggested barriers to
264 receiving regular care can exacerbate older undocumented immigrants' existing chronic
265 conditions,²⁵ we did not find this to be the case from our data.

266 There are several caveats to our interpretations. First, the Medi-Cal patients at LAC+USC
267 may be a unique, low-income sample. The high proportion of homelessness, for example,
268 indicates this population has complex health care needs. The longer length of stay among Medi-
269 Cal patients may also be attributable to discharge planning issues, such as a long wait for other
270 health facilities or a lack of a discharge destination. Thus, the relatively positive outcomes
271 among undocumented patients may not be due to any inherent health advantages per se, but
272 rather that the comparison group suffers from serious health conditions. Conversely, our sample
273 of undocumented immigrants includes those who have access to county and community facilities
274 via local health plans that provide preventive care. Los Angeles County has actively addressed

275 the health care needs of the undocumented population, suggesting that this undocumented patient
276 population may be receiving regular care that contributes to their better health at the point of
277 hospitalization.

278 *Limitations*

279 We do not have direct information on the immigration status of patients. However, we
280 believe restricted-scope Medi-Cal is a valid approximation of undocumented status. Patients who
281 are not insured at the time of admission but are Medi-Cal eligible are coded under a separate
282 payment source that provides qualified individuals immediate access to temporary Medi-Cal
283 while applying for permanent Medi-Cal or other health coverage (e.g. Hospital Presumptive
284 Eligibility, HPE). There may also be immigrants who use restricted-scope Medi-Cal who are not
285 undocumented, such as those on student and work visas, and certain permanent legal residents
286 who have not met the five year residency requirement for public insurance. Alternatively, there
287 may be undocumented immigrants who do not qualify for restricted Medi-Cal because of their
288 high incomes. We believe these comprise a very small number in our sample, however.

289 We also acknowledge that we lack important variables, such as nativity, country of
290 origin, or ethnic subgroups (e.g. Mexican, Salvadoran, Chinese) and do not control for them in
291 our analysis. We do include language use in our IPWRA models, however, which up-weights
292 individuals in the full-scope Medi-Cal comparison who may be foreign-born and prefer Spanish.
293 We also found similar results when we limited the analyses to Hispanic/Latinos, confirming that
294 these trends are consistent for Hispanic/Latino undocumented immigrants. Additionally, we did
295 not have information on baseline health status. While this was indirectly incorporated in our
296 illness severity measures, this is a limitation for length of stay and repeat encounters. Finally, our
297 illness severity outcome might be biased by undiagnosed disease. Yet comprehensive evaluation

298 upon admission often leads to diagnosis of various chronic conditions, which are then captured
299 in the illness severity score. Nevertheless, we acknowledge the limitations of unknown
300 chronicity of medical conditions and adequacy of treatment in the outpatient setting. Future
301 research, including qualitative interviews, would enrich research with respect to nativity status,
302 length of time in the US, and perceptions around health and health care utilization among
303 undocumented immigrants.

304 *Conclusions and Future Directions*

305 We find that undocumented immigrants in Los Angeles County do not have poorer health
306 outcomes at the point of hospitalization. Contrary to some popular narratives, undocumented
307 immigrants do not appear to overburden the healthcare system. We note, however, that the
308 county provides public or subsidized access to health care services for its undocumented
309 residents. While we do not have information on primary care utilization or outpatient care, future
310 research could examine whether local policies contribute to positive hospitalization
311 characteristics among undocumented immigrants or whether our findings hold in other locales
312 with weaker safety-net programs.

313

314 **About the authors**

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338 **Contributor Statement**

339 AR conceptualized the study, conducted the analysis, and wrote the manuscript. HY
340 conceptualized the study, interpreted results, and assisted with manuscript writing. SD
341 interpreted results and assisted with manuscript writing. CH interpreted results and assisted with
342 manuscript writing. AY conceptualized the study, interpreted results, and assisted with
343 manuscript writing. All authors reviewed the final draft of the manuscript.

344

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347

348 **Human Participant Protection**

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352

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354 **References**

- 355 1. Passel JS, Cohn D. *Unauthorized Immigrant Total Dips to Lowest Level in a Decade.*;
356 2018.
- 357 2. Vargas Bustamante A, Chen J, Fang H, Rizzo JA, Ortega AN. Identifying health insurance
358 predictors and the main reported reasons for being uninsured among US immigrants by
359 legal authorization status. *Int J Health Plann Manage.* 2014;29(1):e83-e96.
360 doi:10.1002/hpm.2214
- 361 3. Ortega AN, McKenna RM, Kemmick Pintor J, et al. Health Care Access and Physical and
362 Behavioral Health Among Undocumented Latinos in California. *Med Care.* 2018;56(11).
363 [https://journals.lww.com/lww-medicalcare/Fulltext/2018/11000/Health_Care_Access_and](https://journals.lww.com/lww-medicalcare/Fulltext/2018/11000/Health_Care_Access_and_Physical_and_Behavioral.5.aspx)
364 [_Physical_and_Behavioral.5.aspx](https://journals.lww.com/lww-medicalcare/Fulltext/2018/11000/Health_Care_Access_and_Physical_and_Behavioral.5.aspx)
- 365 4. Loue S. Access to health care and the undocumented alien. *J Leg Med.* 1992;13(3):271-
366 332. doi:10.1080/01947649209510886
- 367 5. Vargas Bustamante A, Fang H, Garza J, et al. Variations in healthcare access and
368 utilization among Mexican immigrants: The role of documentation status. *J Immigr Minor*
369 *Heal.* Published online 2012. doi:10.1007/s10903-010-9406-9
- 370 6. Van Natta M, Burke NJ, Yen IH, et al. Stratified citizenship, stratified health: Examining
371 latinx legal status in the U.S. healthcare safety net. *Soc Sci Med.* 2019;220:49-55.
372 doi:<https://doi.org/10.1016/j.socscimed.2018.10.024>
- 373 7. Hamilton ER, Hale JM, Savinar R. Immigrant Legal Status and Health: Legal Status
374 Disparities in Chronic Conditions and Musculoskeletal Pain Among Mexican-Born Farm
375 Workers in the United States. *Demography.* Published online 2019. doi:10.1007/s13524-
376 018-0746-8

- 377 8. Ro A, Van Hook J. Comparing immigration status and health patterns between Latinos
378 and Asians: Evidence from the Survey of Income and Program Participation. *PLoS One*.
379 2021;16(2):e0246239. <https://doi.org/10.1371/journal.pone.0246239>
- 380 9. Lu Y, Li X. Documentation status, gender, and health selection of immigrants: Evidence
381 from Mexican–US migration. *Popul Space Place*. 2020;n/a(n/a):e2333.
382 doi:10.1002/psp.2333
- 383 10. Acevedo-Garcia D, Bates LM, Osypuk TL, McArdle N. The effect of immigrant
384 generation and duration on self-rated health among US adults 2003–2007. *Soc Sci Med*.
385 2010;71(6):1161-1172. doi:<https://doi.org/10.1016/j.socscimed.2010.05.034>
- 386 11. Freeman JD, Kadiyala S, Bell JF, Martin DP. The Causal Effect of Health Insurance on
387 Utilization and Outcomes in Adults: A Systematic Review of US Studies. *Med Care*.
388 2008;46(10):1023-1032. <http://www.jstor.org/stable/40221801>
- 389 12. Siddharthan K, Ahern M. Inpatient utilization by undocumented immigrants without
390 insurance. *J Health Care Poor Underserved*. Published online 1996.
391 doi:10.1353/hpu.2010.0068
- 392 13. Berk ML, Schur CL, Chavez LR, Frankel M. Health Care Use Among Undocumented
393 Latino Immigrants. *Health Aff*. 2000;19(4):51-64. doi:10.1377/hlthaff.19.4.51
- 394 14. Madden EF, Qeadan F. Dialysis hospitalization inequities by hispanic ethnicity and
395 immigration status. *J Health Care Poor Underserved*. Published online 2017. doi:10.1353/
396 hpu.2017.0130
- 397 15. Cervantes L, Tuot D, Raghavan R, et al. Association of emergency-only vs standard
398 hemodialysis with mortality and health care use among undocumented immigrants with
399 end-stage renal disease. *JAMA Intern Med*. Published online 2018.

- 400 doi:10.1001/jamainternmed.2017.7039
- 401 16. Nguyen OK, Vazquez MA, Charles L, et al. Association of Scheduled vs Emergency-Only
402 Dialysis with Health Outcomes and Costs in Undocumented Immigrants with End-stage
403 Renal Disease. *JAMA Intern Med*. Published online 2019.
404 doi:10.1001/jamainternmed.2018.5866
- 405 17. MPI. Profile of the Unauthorized Population: Los Angeles County, CA. Migration Policy
406 Institute.
- 407 18. Beck TL, Le T-K, Henry-Okafor Q, Shah MK. Medical Care for Undocumented
408 Immigrants: National and International Issues. *Prim Care Clin Off Pract*. 2017;44(1):e1-
409 e13. doi:10.1016/j.pop.2016.09.005
- 410 19. Njeru JW, St. Sauver JL, Jacobson DJ, et al. Emergency department and inpatient health
411 care utilization among patients who require interpreter services. *BMC Health Serv Res*.
412 2015;15(1):214. doi:10.1186/s12913-015-0874-4
- 413 20. Davies A, Wood LJ. Homeless health care: Meeting the challenges of providing primary
414 care. *Med J Aust*. Published online 2018. doi:10.5694/mja17.01264
- 415 21. Funk MJ, Westreich D, Wiesen C, Stürmer T, Brookhart MA, Davidian M. Doubly robust
416 estimation of causal effects. *Am J Epidemiol*. 2011;173(7):761-767.
417 doi:10.1093/aje/kwq439
- 418 22. Austin PC, Stuart EA. Moving towards best practice when using inverse probability of
419 treatment weighting (IPTW) using the propensity score to estimate causal treatment
420 effects in observational studies. *Stat Med*. 2015;34(28):3661-3679.
421 doi:https://doi.org/10.1002/sim.6607
- 422 23. StataCorp. Stata Statistical Software: Release 16. Published online 2019.

- 423 24. Pourat N, Wallace SP, Hadler MW, Ponce N. Assessing health care services used by
424 California's undocumented immigrant population in 2010. *Health Aff.* Published online
425 2014. doi:10.1377/hlthaff.2013.0615
- 426 25. Ayón C, Ramos Santiago J, López Torres AS. Latinx Undocumented Older Adults, Health
427 Needs and Access to Healthcare. *J Immigr Minor Heal.* Published online 2020.
428 doi:10.1007/s10903-019-00966-7

429 Table 1. Descriptive Table of 2019 Inpatient Encounters in Los Angeles County + USC Medical Center

	18-64 years of age						Over 65 years of age					
	Undocumented (n=6,074)		Medi-Cal (n=12,170)		Total (n=18,244)		Undocumented (n=1,226)		Medi-Cal (n=3,010)		Total (n=4,236)	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Mean Age	45.9		41.4		42.9		73.1		73.8		73.6	
Race/Ethnicity												
Hispanic	5576	91.8	7609	62.52	13185	72.27	1061	86.54	1723	57.24	2784	65.72
Non-Hispanic White	6	0.1	508	4.17	514	2.82	11	0.90	88	2.92	99	2.34
Non-Hispanic Black	75	1.23	1893	15.55	1968	10.79	19	1.55	443	14.72	462	10.91
Non-Hispanic Asian	241	3.97	461	3.79	702	3.85	85	6.93	370	12.29	455	10.74
Non-Hispanic Other	176	2.9	1699	13.96	1875	10.28	50	4.08	386	12.82	436	10.29
Gender												
Female	3008	49.52	4964	40.79	7972	43.7	704	57.42	1386	46.05	2090	49.34
Male	3066	50.48	7206	59.21	10272	56.3	522	42.58	1624	53.95	2146	50.66
Language												
English	859	14.14	8229	67.62	9088	49.81	93	7.59	1106	36.74	1199	28.31
Spanish	5007	82.43	3630	29.83	8637	47.34	1040	84.83	1534	50.96	2574	60.76
Other	208	3.42	311	2.56	519	2.84	93	7.59	370	12.29	463	10.93
Homeless	407	6.7	2289	18.81	2696	14.78	59	4.81	401	13.32	460	10.86
Illness Severity (Risk for Mortality)												
Below or Similar	5550	91.37	10804	88.78	16354	89.64	1032	84.18	2314	76.88	3346	78.99
Above	524	8.63	1366	11.22	1890	10.36	194	15.82	696	23.12	890	21.01
Mean Length of Stay (days)	4.5		6.1		5.6		5.2		6.8		6.3	
2019 Repeat Encounter												
First encounter	4286	70.56	8624	70.86	12910	70.76	800	65.25	2166	72.0	2966	70.0
Second or higher	1788	29.44	3546	29.13	5334	29.24	426	34.75	844	28.0	1270	30.0

431 Table 2. Group Differences between Undocumented and Medi-Cal Patients in Inpatient Measures by Age Group, 2019 LAC+USC
 432 Inpatient Admissions

	Illness Severity (Above Average Risk for Mortality)			Length of Stay (Days)			Repeat Patient		
	Pred. Prob	95% CI		Predicted	95% CI		Pred. Prob	95% CI	
18-64 Years of Age									
Undocumented	8.4%	7.3%	9.5%	4.9	4.2	5.6	22.4%	20.0%	24.9%
Medi-Cal	11.6%	11.0%	12.2%	6.1	5.9	6.3	22.4%	21.4%	23.4%
Difference	3.2%	1.9%	4.4%	1.2	0.4	1.9	-0.1%	-2.7%	2.6%
			<i>p<.001</i>			<i>p<.05</i>			<i>NS</i>
65 Years of Age and Older									
Undocumented	15.7%	13.4%	18.1%	6.0	5.0	7.0	26.5%	22.4%	30.6%
Medi-Cal	22.2%	20.7%	23.7%	6.6	6.2	7.0	22.0%	20.2%	23.8%
Difference	6.5%	3.7%	9.3%	0.5	-0.6	1.6	-4.5%	-9.0%	-0.1%
			<i>p<.001</i>			<i>NS</i>			<i>p<.05</i>

433 Predicted probabilities calculated from inverse probability weighted regression adjustment (IPWRA) models. Covariates for “treatment” model (i.e.
 434 undocumented versus Medi-Cal) were age, race, language, gender, homeless status. Covariates for outcome models (ie, illness severity, length of stay, repeat
 435 admission) were age, race, language, gender and homeless status, and length of stay

436 Supplemental Table 1. Descriptive Table of 2019 Unique Patients in Los Angeles County + USC Medical Center

	Undocumented			Medi-Cal		Total		Undocumented		Medi-Cal		Total	
	(n=4,286)		No.	(n=8,624)		(n=12,910)		(n=800)		(n=2,166)		(n=2,966)	
	No.	%		No.	%	No.	%	No.	%	No.	%	No.	%
Mean Age	45.12		40.19	41.86		73.19		74.37		74.05			
Race/Ethnicity													
Hispanic	3950	92.16	5272	61.13	9222	71.43	686	85.75	1215	56.09	1901	64.09	
Non-Hispanic White	5	0.12	323	3.75	328	2.54	2	0.25	63	2.91	65	2.19	
Non-Hispanic Black	42	0.98	1302	15.1	1344	10.41	15	1.88	289	13.34	304	10.25	
Non-Hispanic Asian	145	3.38	328	3.8	473	3.66	55	6.88	282	13.02	337	11.36	
Non-Hispanic Other	144	3.36	1399	16.22	1543	11.95	42	5.25	317	14.64	359	12.1	
Gender													
Female	2235	52.15	3582	41.54	5817	45.06	440	55	1008	46.54	1448	48.82	
Male	2051	47.85	5042	58.46	7093	54.94	360	45	1158	53.46	1518	51.18	
Language													
English	661	15.42	6043	70.07	6704	51.93	64	8	790	36.47	854	28.79	
Spanish	3504	81.75	2359	27.35	5863	45.41	673	84.12	1082	49.95	1755	59.17	
Other	121	2.82	222	2.57	343	2.66	63	7.88	294	13.57	357	12.04	
Homeless	253	5.9	1594	18.48	1847	14.31	45	5.62	249	11.5	294	9.91	
Illness Severity (Risk for Mortality)													
Below or Similar	3958	92.35	7699	89.27	11657	90.29	685	85.62	1670	77.1	2355	79.4	
Above Average	328	7.65	925	10.73	1253	9.71	115	14.37	496	22.9	611	20.6	
Mean Length of Stay (days)	4.46		6.07	5.54		5.62		6.82		6.5			

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441 Supplemental Table 2. Group Differences between Undocumented and Medi-Cal Patients in Inpatient Measures from IPWRA Models
 442 for by Age, 2019 LAC+USC Inpatient Admissions

	Illness Severity (Above Average Risk for Mortality)			Length of Stay (Days)			Repeat Patient		
	Pred. Prob	95% CI		Predicted	95% CI		Pred. Prob	95% CI	
Hispanic/Latinos Only									
18-64 Years of Age									
Undocumented	8.07%	7.19%	8.95%	4.33	4.13	4.54	20.36%	18.79%	21.93%
Medi-Cal	11.56%	10.78%	12.33%	5.84	5.60	6.08	23.39%	22.14%	24.64%
Difference	3.48%	2.31%	4.65%	1.50	1.19	1.82	3.03%	1.03%	5.03%
		p<.001			p<.05			p<.05	
65 Years of Age and Older									
Undocumented	16.62%	14.12%	19.12%	4.96	4.26	5.66	30.34%	26.67%	34.01%
Public Insurance	20.02%	18.14%	21.91%	5.97	5.47	6.46	23.21%	20.81%	25.61%
Difference	3.40%	0.29%	6.52%	1.00	0.15	1.86	-7.13%	-11.52%	-2.74%
		p=0.035			p=0.021			p<.001	
No Outliers for Length of Stay									
18-64 Years of Age									
Undocumented				3.62	3.49	3.75			
Medi-Cal				4.12	4.04	4.19			
Difference				0.50	0.36	0.65			
					p<.001				
65 Years of Age and Older									
Undocumented				4.19	3.77	4.62			
Medi-Cal				4.33	4.18	4.47			
Difference				0.13	-0.31	0.58			
					NS				

443 Predicted probabilities calculated from inverse probability weighted regression adjustment (IPWRA) models. Covariates for “treatment” model (i.e.
 444 undocumented versus Medi-Cal) were age, race, language, gender, homeless status. Covariates for outcome models (ie, illness severity, length of stay, repeat
 445 admission) were age, race, language, gender and homeless status, and length of stay
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447 Supplemental Table 3. IPWRA Regression Models for Illness Severity, by Age

	18-64 Years				Over 65 Years			
	OR	[95% CI]	P> z		OR	[95% CI]	P> z	
Outcome Model: Among Undocumented								
Age	0.01	0.00	0.03	0.02	0.03	0.00	0.05	0.04
Race								
Latino								
Non-Latino White	-12.76	-13.18	-12.34	0.00	-1.28	-2.98	0.42	0.14
Non-Latino Black	0.39	-0.48	1.26	0.39	-3.34	-5.35	-1.34	0.00
Non-Latino Asian	0.77	0.19	1.35	0.01	-1.69	-3.02	-0.36	0.01
Non-Latino Other	0.18	-0.43	0.80	0.56	-1.08	-2.22	0.07	0.07
Language								
English								
Spanish	-0.06	-0.41	0.28	0.72	-1.07	-1.81	-0.33	0.01
Other	-0.29	-0.88	0.30	0.34	1.16	0.04	2.27	0.04
Repeat Encounter in 2019	0.06	-0.25	0.36	0.72	0.22	-0.15	0.58	0.25
Male	-0.15	-0.42	0.12	0.28	0.16	-0.20	0.51	0.38
Homeless	-0.52	-1.13	0.08	0.09	-0.31	-1.20	0.57	0.49
Intercept	-2.94	-3.53	-2.35	0.00	-2.66	-4.67	-0.66	0.01
Outcome Model: Among Medi-Cal								
Age	0.01	0.01	0.02	0.00	0.04	0.03	0.05	0.00
Race								
Latino								
Non-Latino White	-0.22	-0.54	0.11	0.20	-0.11	-0.68	0.45	0.69
Non-Latino Black	0.01	-0.18	0.20	0.91	-0.17	-0.53	0.19	0.36
Non-Latino Asian	0.22	-0.12	0.56	0.21	0.11	-0.32	0.54	0.63
Non-Latino Other	0.19	0.01	0.37	0.04	0.01	-0.33	0.35	0.95
Language								
English								
Spanish	0.12	-0.03	0.26	0.12	-0.55	-0.85	-0.25	0.00
Other	0.07	-0.32	0.46	0.73	-0.28	-0.64	0.08	0.12
Repeat Encounter in 2019	0.21	0.08	0.34	0.00	0.19	-0.01	0.39	0.06
Male	-0.20	-0.32	-0.07	0.00	0.25	0.06	0.43	0.01
Homeless	-0.07	-0.24	0.10	0.43	-0.32	-0.63	-0.02	0.04
Intercept	-2.54	-2.74	-2.35	0.00	-4.06	-4.95	-3.17	0.00
"Treatment" Model: Medi-Cal (1) versus Undocumented (0)								

Age	-0.01	-0.01	-0.01	0.00	0.02	0.01	0.03	0.00
Race								
Latino								
Non-Latino White	2.57	1.75	3.38	0.00	0.33	-0.31	0.98	0.31
Non-Latino Black	1.41	1.17	1.66	0.00	1.33	0.79	1.87	0.00
Non-Latino Asian	-0.32	-0.60	-0.05	0.02	0.23	-0.36	0.82	0.44
Non-Latino Other	0.76	0.59	0.94	0.00	0.52	0.13	0.92	0.01
Language								
English								
Spanish	-2.11	-2.21	-2.01	0.00	-1.49	-1.81	-1.16	0.00
Other	-1.30	-1.59	-1.01	0.00	-0.88	-1.40	-0.35	0.00
Male	0.27	0.19	0.34	0.00	0.20	0.06	0.35	0.01
Homeless	0.26	0.13	0.39	0.00	0.21	-0.11	0.53	0.19
Intercept	2.02	1.89	2.15	0.00	0.36	-0.38	1.11	0.34

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450 Supplemental Table 4. IPWRA Regression Models for Length of Stay, by Age

	18-64 Years				Over 65 Years			
	B	[95% CI]		P> z	B	[95% CI]		P> z
Outcome Model: Among Undocumented								
Age	0.03	-0.04	0.09	0.44	0.00	-0.13	0.14	0.95
Race								
Latino								
Non-Latino White	-4.11	-7.06	-1.16	0.01	-2.58	-10.74	5.57	0.54
Non-Latino Black	4.02	-1.23	9.27	0.13	1.06	-6.57	8.69	0.79
Non-Latino Asian	0.77	-1.06	2.59	0.41	2.00	-5.83	9.83	0.62
Non-Latino Other	0.86	-0.90	2.62	0.34	6.83	-3.34	17.00	0.19
Language								
English								
Spanish	0.86	-0.07	1.79	0.07	1.83	-5.48	9.13	0.62
Other	1.00	-1.25	3.25	0.38	2.68	-1.10	6.46	0.17
Repeat Encounter in 2019	-1.41	-2.99	0.16	0.08	-0.65	-1.95	0.65	0.33
Male	0.34	-0.88	1.55	0.59	0.21	-1.55	1.97	0.81
Homeless	5.10	0.76	9.44	0.02	8.62	1.34	15.91	0.02
Intercept	2.39	-0.16	4.95	0.07	2.44	-11.49	16.37	0.73
Outcome Model: Among Medi-Cal								
Age	0.04	0.03	0.05	0.00	0.05	0.00	0.10	0.03
Race								
Latino								
Non-Latino White	-0.46	-1.44	0.52	0.36	2.65	-1.35	6.65	0.20
Non-Latino Black	-0.47	-1.09	0.15	0.14	-0.55	-2.47	1.36	0.57
Non-Latino Asian	1.23	0.01	2.45	0.05	2.05	0.03	4.06	0.05
Non-Latino Other	1.03	0.29	1.78	0.01	2.58	0.50	4.66	0.02
Language								
English								
Spanish	0.70	0.23	1.17	0.00	0.51	-1.14	2.15	0.55
Other	0.75	-0.89	2.38	0.37	-0.93	-2.34	0.48	0.20
Repeat Encounter in 2019	-0.01	-0.44	0.43	0.97	-0.07	-1.04	0.89	0.88
Male	0.54	0.14	0.93	0.01	0.67	-0.21	1.56	0.14
Homeless	3.95	3.10	4.80	0.00	6.19	3.77	8.61	0.00
Intercept	3.10	2.66	3.53	0.00	0.95	-3.00	4.90	0.64
"Treatment" Model: Medi-Cal (1) versus Undocumented (0)								

Age	-0.01	-0.01	-0.01	0.00	0.02	0.01	0.03	0.00
Race								
Latino								
Non-Latino White	2.57	1.75	3.38	0.00	0.33	-0.31	0.98	0.31
Non-Latino Black	1.41	1.17	1.66	0.00	1.33	0.79	1.87	0.00
Non-Latino Asian	-0.32	-0.60	-0.05	0.02	0.23	-0.36	0.82	0.44
Non-Latino Other	0.76	0.59	0.94	0.00	0.52	0.13	0.92	0.01
Language								
English								
Spanish	-2.11	-2.21	-2.01	0.00	-1.49	-1.81	-1.16	0.00
Other	-1.30	-1.59	-1.01	0.00	-0.88	-1.40	-0.35	0.00
Male	0.27	0.19	0.34	0.00	0.20	0.06	0.35	0.01
Homeless	0.26	0.13	0.39	0.00	0.21	-0.11	0.53	0.19
Intercept	2.02	1.89	2.15	0.00	0.36	-0.38	1.11	0.34

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453 Supplemental Table 5. IPWRA Regression Models for Repeat Patient Encounter, by Age

	18-64 Years				Over 65 Years			
	OR	[95% CI]	P> z		OR	[95% CI]	P> z	
Outcome Model: Among Undocumented								
Age	0.02	0.00	0.03	0.01	0.00	-0.03	0.04	0.78
Race								
Latino								
Non-Latino White	-0.09	-2.06	1.89	0.93	0.16	-2.54	2.86	0.91
Non-Latino Black	1.07	0.32	1.81	0.01	-0.40	-2.05	1.26	0.64
Non-Latino Asian	0.13	-0.48	0.73	0.68	-0.58	-1.81	0.65	0.36
Non-Latino Other	-0.68	-1.35	-0.02	0.04	-1.39	-2.85	0.06	0.06
Language								
English								
Spanish	0.19	-0.10	0.48	0.21	-0.22	-1.09	0.64	0.61
Other	0.53	-0.15	1.22	0.12	-0.06	-1.06	0.94	0.90
Repeat Encounter in 2019	0.00				0.00			
Male	0.21	-0.05	0.48	0.12	-0.13	-0.52	0.26	0.51
Homeless	0.65	0.12	1.18	0.02	-0.42	-1.41	0.58	0.41
Intercept	-2.48	-3.08	-1.89	0.00	-0.90	-3.55	1.75	0.51
Outcome Model: Among Medi-Cal								
Age	0.01	0.01	0.02	0.00	-0.02	-0.04	-0.01	0.01
Race								
Latino								
Non-Latino White	0.19	-0.08	0.46	0.16	-0.04	-0.73	0.66	0.92
Non-Latino Black	0.08	-0.09	0.24	0.36	0.21	-0.22	0.64	0.35
Non-Latino Asian	0.08	-0.28	0.44	0.67	0.36	-0.15	0.87	0.17
Non-Latino Other	-0.57	-0.75	-0.39	0.00	-0.38	-0.83	0.06	0.09
Language								
English								
Spanish	0.24	0.11	0.38	0.00	0.22	-0.15	0.59	0.24
Other	0.08	-0.34	0.51	0.70	-0.36	-0.79	0.07	0.10
Repeat Encounter in 2019	0.00				0.00			
Male	0.06	-0.06	0.18	0.31	0.01	-0.21	0.23	0.94
Homeless	0.15	0.00	0.29	0.05	0.38	0.05	0.72	0.03
Intercept	-2.02	-2.18	-1.86	0.00	0.13	-1.02	1.29	0.82
"Treatment" Model: Medi-Cal (1) versus Undocumented (0)								

Age	-0.01	-0.02	-0.01	0.00	0.03	0.01	0.04	0.00
Race								
Latino								
Non-Latino White	2.38	1.48	3.27	0.00	1.67	0.23	3.11	0.02
Non-Latino Black	1.68	1.36	2.01	0.00	1.18	0.57	1.80	0.00
Non-Latino Asian	-0.17	-0.51	0.16	0.31	0.32	-0.36	1.00	0.35
Non-Latino Other	0.83	0.64	1.02	0.00	0.49	0.05	0.93	0.03
Language								
English								
Spanish	-2.08	-2.19	-1.97	0.00	-1.51	-1.89	-1.13	0.00
Other	-1.08	-1.45	-0.72	0.00	-0.94	-1.54	-0.34	0.00
Male	0.36	0.27	0.45	0.00	0.12	-0.05	0.30	0.17
Homeless	0.41	0.25	0.57	0.00	-0.06	-0.44	0.32	0.75
Intercept	2.01	1.87	2.16	0.00	0.04	-0.87	0.95	0.93

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