

APPENDIX

Supplemental EXHIBIT 1

CAPTION: Descriptive statistics for Latino adults in California by citizenship and nativity status

Variables	US-born citizen			Foreign-born: US citizen			Foreign-born: LPR			Undocumented		
	Pre	Post	p-v	Pre	Post	p-v	Pre	Post	p-v	Pre	Post	p-v
Latino Heritage												
Mexican	76.57	76.3		74.59	73.47		80.55	80.51		82.23	78.94	*
Other Latino	23.43	23.7		25.41	26.53		19.45	19.49		17.77	21.06	
Health care outcomes												
Had at least one MD visit	77.76	77.09		79.11	78.87		72.23	72.68		59.34	60.05	
Had at least one ED visit	21.63	24.55	**	16.23	19.3	*	14.67	16.2		12.91	15.84	*
Usual source of care	74.62	76.39		78.47	82.78	*	67.02	72.91	**	54.35	59.79	**
Health Insurance												
Uninsured	21.73	13.82	****	24.97	13.78	****	38.47	21.03	****	55.92	48.02	***
Public	20.45	35.23	****	16.83	33.44	****	23.53	44.19	****	28.18	38.67	****
Private	57.82	50.94	****	58.2	52.78	**	38	34.79		15.9	13.24	
Explanatory variables												
Female	49.2	49.1		49.8	55.52	**	48.87	49.59		48.69	47.30	
Married	35.46	29.7	***	68.94	65.36		63.39	58.36	*	45.33	44.78	
Age in years			***			****			****			****
18-29	49.8	53.57		12.45	8.42		15.89	13.14		29.14	14.48	
30-39	19.67	20		21	15.6		28.75	20.43		42.15	42.47	
40-49	15.56	12.31		32.75	29.65		32.14	33.5		21.84	30.60	
50-64	14.98	14.12		33.8	46.33		23.21	32.93		6.87	12.44	
Education												
Less than high school	10.95	8.67		38.52	40.75		58.62	61.59		64.11	64.15	
High school graduate	37.41	33.98		28.71	23.99		21.58	20.47		24.15	23.52	
College and more	51.64	57.34		32.77	35.26		19.8	17.94		11.74	12.33	
English use and proficiency												
Speak very well/well	98.44	98.12		60.45	58.3		33.13	31.83		16.06	18.52	
Speak not well/not at all	1.56	1.88		39.55	41.7		66.87	68.17		83.94	81.48	
Poverty level												
0-138%	25.14	30.76		32.47	36.12		53.68	52.04		74.21	72.35	
139-250%	21.15	22.08		28.17	26.88		28.39	29.32		18.18	19.73	
251-400%	20.73	19.32		19.36	19.35		9.82	12.61		5.13	5.65	
>400%	32.99	27.84		20	17.65		8.1	6.04		2.47	2.27	

Employment										
Employed	70.88	73.84	73.29	73.4	70.28	73.57		67.9	69.25	
Not employed	29.12	26.16	26.71	26.6	29.72	26.43		32.1	30.75	
Self-reported health status										
Excellent	18.67	16.57	15.36	15.8	11.44	10.51		9.8	11.51	
Very good	32.12	32.22	22.37	18.72	14.05	13.28		12.68	13.77	
Good	31.92	33.07	33.56	34.44	37.29	39.54		43.99	36.94	
Fair	13.69	14.22	23.93	26.41	32.52	31.2		30.82	34.58	
Poor	3.59	3.91	4.78	4.63	4.7	5.46		2.7	3.21	
Chronic conditions										
Diabetes	6.04	5.42	10.69	14.9	**	12.57	12.77	6.33	8.12	
High Blood Pressure	18.35	16.62	23.82	28.16	**	20.31	28.2	***	14.88	19.31
Heart Disease	2.41	1.83	3.53	4.41		4.05	4.64		2.72	3.14
Asthma	15.98	18.66	**	7.18	8.76	5.51	7.04		4.44	6.41
Residence			**							*
Urban	75.3	79.46	81.89	81.23		78.74	79.72		82.59	87.07
Suburban	15.99	13.41	11.69	11.49		10.57	9.67		8.94	6.72
Rural	8.71	7.13	6.42	7.28		10.68	10.61		8.47	6.21
California Region								*		
Northern California	1.58	1.88	0.99	1.18		1.26	1.45		1.61	1.03
Central Valley	17.62	17.16	17.78	17.92		18.15	19.96		21.25	22.39
Central Coast	18.18	16.99	11.28	12.67		16.33	19.48		13.53	15.12
Southern California	62.62	63.97	69.95	68.22		64.26	59.11		63.61	61.46
Years in the U.S.										
0-4	N/A	N/A	0.59	0.17	****	5.29	6.94	****	14.01	7.02
5-9	N/A	N/A	2.82	1.55		9.11	7.34		25.59	12.95
10-14	N/A	N/A	6.63	4.96		12.01	12.26		28.33	27.28
15 and above	N/A	N/A	89.96	93.32		73.6	73.47		32.07	52.75

SOURCE: California Health Interview Survey (CHIS) 2007-2016

Notes: N/A, not applicable. LPR: Legal Permanent Resident (e.g. "green card" holder) MD visit: Physician visit, ED visit: Emergency Department visit
Pre-ACA 2007-2013, Post-ACA 2014-2016

t-tests for continuous variables, chi-squared tests for categorical variables

p-v (p-values): *p<0.10, **p<0.05, ***p<0.01, ****p<0.001

Supplemental EXHIBIT 3

CAPTION: Multivariable logistic regression analysis: health insurance coverage, health care access and utilization in California (2007-2016)

Variables	Logistic estimation (Odds Ratios)							
	Health Insurance	p-v	MD visits	p-v	ED visits	p-v	USC	p-v
Health Insurance Coverage								
Pre-ACA 2007-2013 (ref)	ref		ref		ref		ref	
Post-ACA 2014-2016	1.83	****	0.86	**	1.06		1.08	
	[1.6-2.0]		[0.77-0.96]		[0.94-1.13]		[0.95-1.22]	
Latino Heritage								
US-Born citizen (ref)	ref		ref		ref		ref	
Mexican Latinos: Foreign-born								
Documented	0.67	**	1.04		0.91		0.61	***
	[0.49-0.91]		[0.75-1.44]		[0.94-1.18]		[0.45-0.82]	
Undocumented	0.28	****	0.91		0.89		0.58	****
	[0.20-0.37]		[0.67-1.23]		[0.58-1.39]		[0.42-0.78]	
Other Latinos: Foreign-born								
Documented	0.61	***	1.27		1.23		0.67	**
	[0.44-0.83]		[0.88-1.81]		[0.77-1.97]		[0.48-0.92]	
Undocumented	0.28	****	1.03		1.08		0.58	**
	[0.19-0.39]		[0.58-1.19]		[0.69-1.69]		[0.38-0.88]	
Health insurance								
Private	NA		ref		ref		ref	
Public	NA		0.89		1.59	****	0.67	****
			[0.77-1.05]		[1.33-1.90]		[0.58-0.77]	
Uninsured	NA		0.25		0.74	***	0.27	****
			[0.31-0.40]		[0.61-0.91]		[0.24-0.30]	
Female	1.68	****	2.47	****	1.14	*	2.12	****
	[1.5-1.87]		[2.22-2.74]		[0.98-1.31]		[1.93-2.33]	
Married	1.53	****	1.11	**	0.88	*	1.40	****
	[1.37-1.71]		[1.00-1.22]		[0.76-1.02]		[1.23-1.58]	
Age in years								
18-29 (ref)	ref		ref		ref		ref	
30-39	1.39	***	0.90		1.03		1.29	****
	[1.15-1.66]		[0.78-1.04]		[0.86-1.22]		[1.13-1.45]	
40-49	1.35	***	0.95		0.91		1.63	****
	[1.1-1.64]		[0.79-1.13]		[0.76-1.07]		[1.38-1.93]	
>=50	1.25	**	1.16		0.85		2.00	****
	[1.01-1.53]		[0.96-1.40]		[0.69-1.03]		[1.65-2.42]	

Education						
Less than high school (ref)	ref		ref		ref	
High school graduate	1.12	*	0.98		1.01	
	[0.98-1.27]		[0.83-1.15]		[0.86-1.19]	
College	1.14	*	1.21	*	1.20	**
	[0.99-1.31]		[0.98-1.49]		[1.02-1.40]	
English use and proficiency						
Speak very well/well (ref)	ref		ref		ref	
Speak not well/not at all	0.64	****	0.84		0.69	****
	[0.55-0.74]		[0.72-0.98]		[0.59-0.81]	
Poverty level						
0-138%	ref		ref		ref	
139-250%	0.92		1.14	*	0.94	
	[0.78-1.09]		[0.98-1.32]		[0.81-1.09]	
251-400%	1.49	****	1.20	*	0.95	**
	[1.21-1.82]		[0.98-1.45]		[0.77-1.15]	
>400%	2.66	****	1.46	****	0.99	****
	[2.08-3.39]		[1.23-1.73]		[0.79-1.25]	
Employment						
Employed (ref)	ref		ref		ref	
Not employed	0.98		1.06		1.02	
	[0.87-1.10]		[0.93-1.20]		[0.89-1.16]	
Self-reported health status						
Excellent (ref)	ref		ref		ref	
Very good	0.98		1.18	*	1.27	**
	[0.81-1.16]		[0.98-1.42]		[1.02-1.57]	
Good	0.93		1.18	**	1.42	****
	[0.77-1.11]		[1.01-1.38]		[1.19-1.69]	
Fair	0.77	***	1.47	****	2.13	****
	[0.63-0.92]		[1.20-1.79]		[1.75-2.59]	
Poor	0.86		1.85	***	4.38	****
	[0.65-1.13]		[1.32-2.60]		[3.34-5.72]	
Chronic conditions						
Diabetes	1.61	****	2.82	****	1.09	*
	[1.29-2.0]		[1.99-3.97]		[0.89-1.31]	
High Blood Pressure	1.19	**	1.57	****	1.30	***
	[1.0-1.6]		[1.33-1.87]		[1.12-1.49]	
Heart Disease	1.20		1.77	***	2.37	****
	[0.90-1.65]		[1.26-2.49]		[1.82-3.07]	
Asthma	1.39	****	1.42	****	1.51	****
	[1.18-1.65]		[1.18-1.71]		[1.29-1.77]	

Residence					
Urban (ref)	ref	ref	ref	ref	
Suburban	0.93	0.94	1.16	0.97	
	[0.79-1.09]	[0.80-1.11]	[0.96-1.38]	[0.83-1.15]	
Rural	0.89	0.96	0.97	0.99	
	[0.75-1.04]	[0.80-1.16]	[0.79-1.18]	[0.85-1.16]	
California Region					
Northern California (re)	ref	ref	ref	ref	
Central Valley	1.09	0.83	0.72	0.96	***
	[0.98-1.55]	[0.64-1.12]	[0.56-0.91]	[0.72-1.22]	
Central Coast	1.24	0.85	0.88	0.97	*
	[0.84-1.39]	[0.64-1.06]	[0.69-1.13]	[0.73-1.29]	
Southern California	0.9	0.96	1.00	0.92	
	[0.72-1.11]	[0.76-1.22]	[0.79-1.25]	[0.69-1.20]	
Years in the U.S. (Foreign-born)					
0-4 (ref)	ref	ref	ref	ref	
5-9	1.08	0.79	0.91	1.80	****
	[0.77-1.52]	[0.57-1.08]	[0.58-1.42]	[1.30-2.49]	
10-14	1.30	0.92	0.80	1.97	****
	[0.97-1.72]	[0.68-1.24]	[0.52-1.23]	[1.42-2.75]	
15 and above	1.26	0.94	0.81	1.73	***
	[0.93-1.68]	[0.68-1.29]	[0.54-1.22]	[1.27-2.35]	

SOURCE: California Health Interview Survey (CHIS) 2007-2016

Notes: MD visit: Physician visit, ED visit: Emergency Department visit USC: Usual Source of Care

Documented: Foreign-born U.S. citizen and LPR (e.g. "green card" holder)

95% Confidence Intervals in brackets

p-v (p-values): *p<0.10, **p<0.05, ***p<0.01, ****p<0.001

Supplemental EXHIBIT 4

CAPTION: Decomposition analysis: parsing out disparities between Mexican and other Latinos in California (2007-2016)

Variables	Health Insurance			MD visits			ED visits			USC		
Predicted probability												
Mexican Latinos	0.72			0.73			0.18			0.71		
Other Latinos	0.87			0.80			0.20			0.82		
Difference in predicted probability												
Total difference	-0.15			-0.08			-0.02			-0.11		
Observed differences	79			93			73			98		
Unobserved differences	21			7			27			2		
	Coef (SE)	%	p-v	Coef (SE)	%	p-v	Coef (SE)	%	p-v	Coef (SE)	%	p-v
Explanatory variables												
Health Insurance Coverage												
Pre-ACA 2007-2013 (ref)	ref	ref		ref	ref		ref	ref		ref	ref	
Post-ACA 2014-2016	.0086347 (.000648)	-5.76	****	.0000128 (.0000373)	-0.02%		-.000185 (.000188)	0.93%		.000341 (.0000235)	-0.31	****
Legal Status												
Documented (ref)	Ref	ref		ref	ref		ref	ref		ref	ref	
Undocumented	-.0362504 (.002468)	24.17	****	-.00512832 (.0005026)	6.41	****	-.0004585 (.000763)	2.29%		-.0006961 (.0013075)	0.63%	
Health insurance												
Private (ref)	-	-		ref	ref		ref	ref		ref	ref	
Public	-	-		-.0028086 (.0019267)	3.51%		.0061194 (.000954)	-30.60	****	-.0067576 (.0002102)	6.12	****
Uninsured	-	-		-.0290838 (.000911)	36.35	****	-.0056517 (.001856)	28.26	***	-.0352665 (.0012616)	31.92	****
Female	.0025788 (.000556)	-1.72	****	.0041996 (.0007456)	-5.25	****	-.0056517 (.001856)	3.07	****	.0037864 (.0007459)	-3.43	****
Married	.0010029 (.000380)	-0.67	***	-.0001009 (.0001646)	0.13		.0004035 (.000036)	-2.02	****	-.0006847 (.0000576)	0.62	****
Age in years												
18-29 (ref)	ref	ref		ref	ref		ref	ref		ref	ref	
30-39	.0037658 (.000509)	1.29	****	-.0007626 (.0004188)	0.95		.0000515 (.000148)	-0.26		.0032168 (.0006994)	-2.91	****
40-49	.0011455 (.000312)	-0.76	****	-.0001908 (.0001641)	0.24		-.0000914 (.000065)	0.46		.0014178 (.0002569)	-1.28	****
>=50	-.0033204 (.001955)	2.21	*	-.0029932 (.0003199)	3.74	****	.0017987 (.001667)	-8.99		-.012874 (.0004475)	11.65	****

Education												
Less than high school (ref)	ref	ref	ref	ref	ref	ref	ref	ref	ref			
High school graduate	.0012884 (.001406)	-0.85		-.000179 (.0005405)	0.22		-.0000854 (.000626)	0.43	.001859 (.000482)	-1.68	****	
College	-.0082506 (.006725)	5.50		-.0102919 (.004983)	12.86	**	-.0073412 (.002026)	36.70	****	-.0193551 (.0035628)	17.52	****
English use and proficiency												
Speak very well/well (ref)	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref		
Speak not well/not at all	-.0330349 (.001889)	22.03	****	-.0091979 (.0063985)	11.50%		-.0023551 (.000900)	11.76	****	-.0229911 (.0027145)	20.81	****
Poverty level												
0-138% (ref)	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref		
139-250%	-.0006663 (.001559)	0.44		.0015672 (.0002504)	-2.00	****	-.0007744 (.000713)	3.87%		.0024043 (.0008924)	-2.18	***
251-400%	-.0022505 (.000284)	1.50	****	-.0005603 (.0001847)	0.70	***	.0003838 (.000212)	-1.92%	*	-.0008565 (.0001323)	0.78	****
>400%	-.04373 (.002708)	29.17	****	-.0160323 (.0016948)	20.04	****	.0021955 (.002394)	10.98%		-.0181684 (.0009504)	16.44	****
Employment												
Employed (ref)	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref		
Not employed	-.0000118 (.000108)	0.00		.0002018 (.0000331)	-0.25	****	.000109 (.000043)	-0.55	***	-.0001277 (.0003756)	0.12	
Self-reported health status												
Excellent (ref)	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref		
Very good	-.0004743 (.001031)	0.32		-.0024971 (.0006868)	3.12	****	-.0047547 (.004348)	23.77	*	-.0024228 (.0012114)	2.20	**
Good	-.0003813 (.001114)	0.25		.0018812 (.0003469)	-2.35	****	.0024001 (.001355)	-12.00		.001443 (.0009194)	-1.31	
Fair	-.0028269 (.001238)	1.89	***	.0045235 (.0004399)	-5.65	****	.0165015 (.005748)	-82.50	****	.0022667 (.0009043)	-2.05	***
Poor	.0000743 (.000058)	-0.04		-.0007543 (.0000853)	0.94	****	.0029247 (.000453)	-14.62	****	-.0002157 (.0000658)	0.20	****
Chronic conditions												
Diabetes	.0008784 (.000050)	-0.59	****	.0009342 (.0000491)	-1.17	****	.0005879 (.000366)	-2.94		.0000863 (.0000524)	-0.08	
High Blood Pressure	-.0008084 (.000136)	0.54	****	-.0030629 (.0000973)	3.83	****	-.0005935 (.0002346)	2.97	***	-.0031506 (.0000938)	2.85	****
Heart Disease	-.0001936 (.000295)	0.13		-.0006065 (.0002318)	0.76	***	-.0010492 (.000089)	5.25	****	-.0000716 (.0003088)	0.07	
Asthma	-.0025999 (.000571)	1.73	****	-.0031546 (.0006164)	3.94	****	-.0028598 (.000033)	14.30	****	-.0001173 (.0009395)	0.11	

Residence												
Urban (ref)	ref	ref		ref	ref		ref	ref	ref	ref		
Suburban	.0005156 (.001151)	-0.34		.0004519 (.000406)	-0.56		-.0015776 (.000398)	7.88	****	-.0001065 (.0006637)	0.10	
Rural	.000197 (.000104)	-0.13	**	-.0000081 (.0000429)	0.01		.0001322 (.000105)	-0.66		-.0000654 (.0001086)	0.06	
California Region												
Northern California (ref)	ref	ref		ref	ref		ref	ref		ref	ref	
Central Coast	-.0027212 (-.00272)	1.81	****	.0039172 (.0005996)	-4.90	****	.002787 (.000165)	-13.94	****	.0016761 (.0007288)	-1.52	***
Central Valley	.000187 (.000068)	-0.12	****	-.0012923 (.0000363)	1.62	****	-.0006912 (.000091)	3.46	****	-.0003593 (.0000581)	0.33	****
Southern California	-.0008324 (.000404)	0.56	**	-.001663 (.0006059)	2.08	***	-.0015128 (.000161)	7.56	****	-.0025918 (.0008716)	2.36	****

SOURCE: California Health Interview Survey (CHIS) 2007-2016

Notes: MD visit: Physician visit, ED visit: Emergency Department visit USC: Usual Source of Care

Documented: Foreign-born U.S. citizen and LPR (e.g. "green card" holder)

Values expressed as percentage (%). Among individual factors, positive/negative coefficients indicate the share of explanatory variables positively/negatively associated with disparities in outcomes between Mexican and other Latinos.

Standard Errors in parenthesis, p-v (p-values): *p<0.10, **p<0.05, ***p<0.01, ****p<0.001