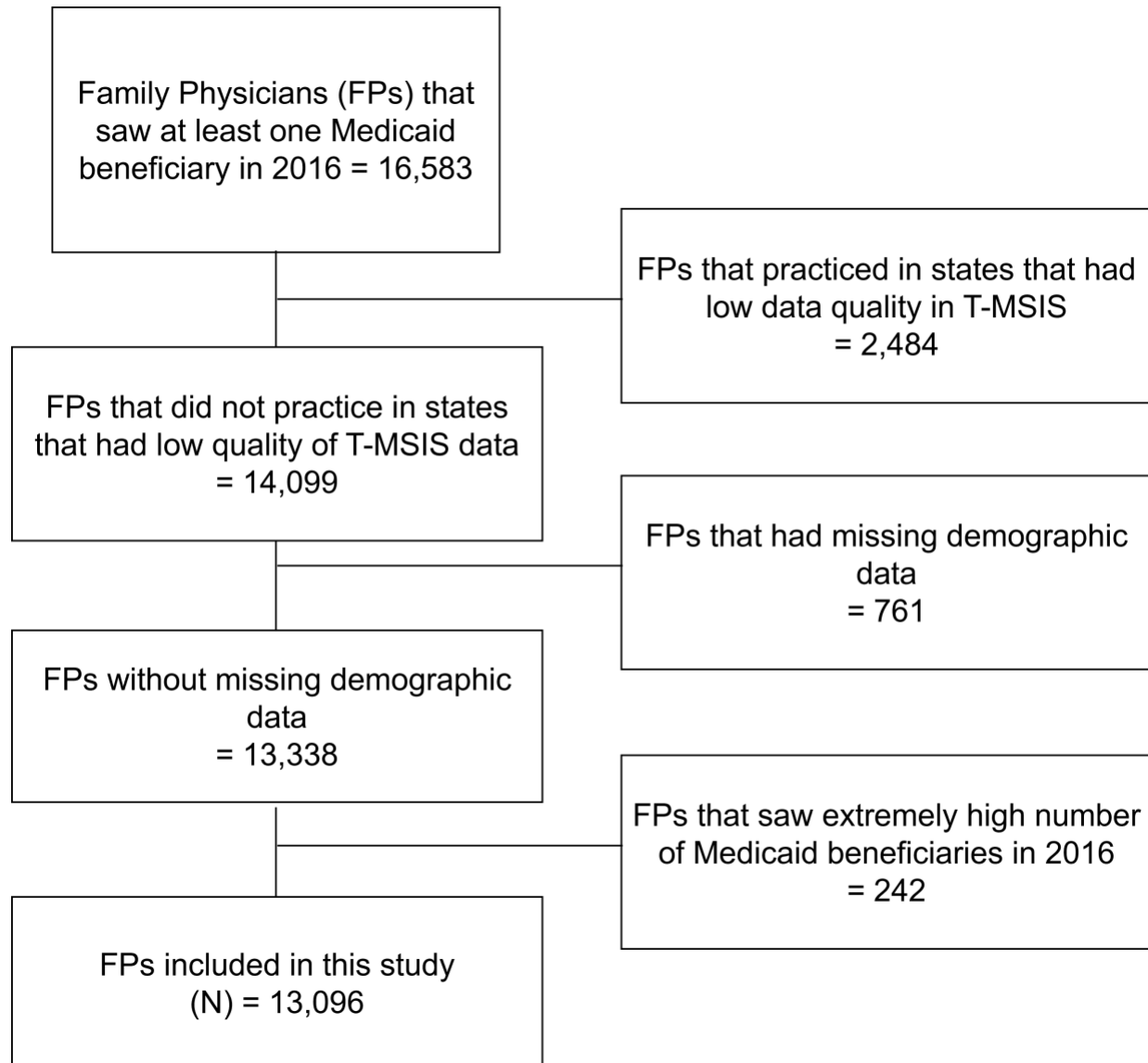


Supplemental materials for

Vichare A, Bodas M, Jetty A, Luo Q, Bazemore A. A Few Doctors Will See Some of You: The Critical Role of Underrepresented in Medicine (URiM) Family Physicians in the Care of Medicaid Beneficiaries. *Ann Fam Med*. 2024;22:383-391.

Supplemental Figure 1: Sample derivation chart.



Supplemental Table 1: Description of Core FPs						
	Core All	Core NLH_AIAN	Core NLH_Asian	Core NLH_Black	Core NLH_White	Core LHS
n	6,763	65	904	493	4,883	418
Medicaid Participation						
Mean Beneficiaries	510.69 (376.18)	441.66 (288.78)	533.81 (397.80)	570.02 (393.37)	495.28 (365.19)	586.26 (438.14)
Medicaid Panel Characteristics (%)						
Non-LHS white	56.62 (32.04)	58.34 (26.61)	46.49 (28.56)	34.94 (27.06)	62.46 (31.44)	37.71 (28.52)
Non-LHS Black	16.60 (21.55)	14.39 (18.64)	18.98 (20.11)	46.41 (28.97)	13.61 (18.91)	11.21 (15.39)
LHS	3.34 (8.93)	1.66 (3.04)	10.46 (19.30)	2.15 (4.00)	2.12 (4.89)	2.85 (6.07)
Non-LHS Asian	2.12 (9.23)	11.98 (21.79)	1.24 (6.52)	1.59 (8.42)	2.21 (9.34)	2.02 (9.66)
Non-LHS AIAN*	0.57 (2.57)	0.52 (2.01)	1.12 (4.11)	0.36 (1.90)	0.49 (2.20)	0.31 (0.77)
Multiple race	0.30 (1.07)	1.62 (4.02)	0.23 (0.85)	0.33 (1.21)	0.30 (1.02)	0.17 (0.67)
Non-LHS HPI**	18.23 (25.42)	11.48 (15.32)	20.59 (22.79)	13.20 (18.18)	16.04 (24.58)	44.53 (32.63)
Physician Characteristics (%)						
Female	2519 (37%)	25 (38%)	431 (48%)	281 (57%)	1569 (32%)	160 (38%)
Doctor of Osteopathic Medicine	663 (10%)	7 (11%)	75 (8%)	23 (5%)	535 (11%)	17 (4%)
Internal Medical Graduates	1368 (20%)	4 (6%)	555 (61%)	111 (23%)	514 (11%)	124 (30%)
Years in Practice	18.17 (8.93)	17.22 (9.38)	13.73 (7.11)	16.12 (7.88)	19.45 (9.01)	16.73 (8.52)
< 5 years	151 (2%)	2 (3%)	40 (4%)	17 (3%)	56 (1%)	22 (5%)
5 to 14 years	2481 (36%)	30 (46%)	509 (56%)	221 (45%)	1510 (31%)	158 (38%)
15 to 24 years	2506 (37%)	18 (28%)	278 (31%)	174 (35%)	1863 (38%)	150 (36%)
25 to 34 years	1409 (21%)	9 (14%)	61 (7%)	69 (14%)	1183 (24%)	79 (19%)
35 or more years	317 (5%)	6 (9%)	16 (2%)	12 (2%)	271 (6%)	9 (2%)
Time Spent in direct patient care	87.26 (20.18)	85.09 (18.21)	89.08 (17.65)	86.91 (19.36)	86.94 (20.85)	87.68 (19.12)
Less than 75% time spent in direct patient care	1003 (15%)	11 (17%)	107 (12%)	73 (15%)	738 (15%)	60 (14%)
Practice Characteristics (%)						
Ownership						
Private solo practice	615 (9%)	3 (5%)	140 (15%)	79 (16%)	316 (6%)	59 (14%)
Group Practice	2367 (34%)	16 (25%)	288 (32%)	131 (27%)	1776 (36%)	131 (31%)
Urgent care	799 (12%)	14 (22%)	66 (7%)	50 (10%)	617 (13%)	41 (10%)

Hospital outpatient setting	1613 (23%)	15 (23%)	235 (26%)	110 (22%)	1144 (23%)	86 (21%)
SafetyNet	1004 (15%)	12 (18%)	97 (11%)	81 (16%)	734 (15%)	67 (16%)
Government	121 (2%)		26 (3%)	16 (3%)	65 (1%)	12 (3%)
Other Ownership	345 (5%)	5 (8%)	52 (6%)	26 (5%)	231 (5%)	22 (5%)
Community Characteristics						
Rural	1513 (22%)	13 (20%)	70 (8%)	54 (11%)	1316 (27%)	46 (11%)
SDI score	52.22 (28.17)	52.03 (28.74)	52.85 (29.00)	60.40 (29.59)	50.64 (27.55)	57.86 (28.96)
Primary care physician ratio	0.79 (0.31)	0.79 (0.32)	0.83 (0.29)	0.80 (0.30)	0.79 (0.32)	0.77 (0.28)
Proportion white	79.29 (15.11)	74.00 (20.86)	74.85 (13.84)	64.77 (17.25)	81.88 (13.97)	77.86 (13.57)
Proportion Black	11.66 (13.09)	11.86 (13.98)	12.83 (11.79)	25.17 (17.29)	10.18 (12.21)	10.38 (10.44)
Proportion AIAN	1.84 (5.39)	7.03 (17.04)	1.58 (3.43)	1.70 (6.29)	1.77 (5.12)	2.39 (6.08)
Proportion Asian	4.62 (5.61)	3.90 (4.76)	7.68 (7.58)	5.89 (5.90)	3.68 (4.57)	6.74 (6.77)
Proportion LHS	14.41 (15.45)	11.00 (10.36)	19.39 (16.21)	15.86 (15.18)	11.67 (12.92)	32.41 (22.90)
State Policy Characteristics						
High primary care reimbursement rate	2607 (38%)	36 (55%)	221 (24%)	150 (30%)	2059 (42%)	124 (30%)
Medicaid expansion status	4705 (69%)	49 (75%)	708 (78%)	299 (61%)	3274 (67%)	301 (72%)

Supplemental Table 2. Odds of Seeing At Least 10 Medicaid Beneficiaries by FPs

	Coefficient	Confidence Intervals
N	13,096	
Physician Characteristics		
Non-LHS Asian	1.12	(0.97 - 1.30)
Non-LHS Black	1.52**	(1.24 - 1.86)
LHS	1.75**	(1.47 - 2.09)
Non-LHS AIAN*	1.05	(0.56 - 1.96)
Non-LHS HPI**	1.88	(0.71 - 4.92)
Female	0.65**	(0.58 - 0.72)
Doctor of Osteopathic Medicine	0.93	(0.76 - 1.14)
Internal Medical Graduates	1.18	(0.92 - 1.51)
<i>Years in Practice</i>		
5 to 14 years	0.99	(0.53 - 1.86)
15 to 24 years	0.79	(0.41 - 1.51)
25 to 34 years	0.7	(0.34 - 1.44)
35 or more years	0.56	(0.26 - 1.21)
Less than 75% time spent in direct patient care	0.68**	(0.55 - 0.85)
<i>Ownership</i>		
Private solo practice	0.14**	(0.09 - 0.20)
Group Practice	0.28**	(0.20 - 0.38)
Urgent care	0.42**	(0.29 - 0.60)
Hospital outpatient setting	0.62**	(0.44 - 0.86)
Other Ownership	0.12**	(0.09 - 0.17)
Government	0.05**	(0.03 - 0.08)
Community Characteristics		
Rural	1.82**	(1.29 - 2.57)
SDI quintile 2	1.28*	(1.04 - 1.59)
SDI quintile 3	1.39*	(1.08 - 1.80)
SDI quintile 4	1.48**	(1.20 - 1.82)
SDI quintile 5	1.97**	(1.58 - 2.45)
Primary care physician ratio	0.8	(0.61 - 1.04)
Proportion Asian	0.97*	(0.95 - 1.00)
Proportion Black	0.99**	(0.98 - 0.99)
Proportion LHS	0.98**	(0.98 - 0.99)
Proportion AIAN	1.03	(0.98 - 1.08)
State Policy Characteristics		
Medicaid expansion status	1.80**	(1.25 - 2.58)
High primary care reimbursement rate	1.1	(0.76 - 1.58)

Supplemental Table 3. Average Marginal Effects of Physician Characteristics on Total Number of Medicaid Beneficiaries Seen in 2016

	Coefficient	Confidence Intervals
N	13,096	
Physician Characteristics		
Non-LHS Asian	11.580	(-10.919 - 34.080)
Non-LHS Black	74.130**	(45.161 - 103.098)
LHS	87.504**	(41.244 - 133.763)
Non-LHS AIAN*	-47.745	(-114.537 - 19.047)
Non-LHS HPI**	-29.557	(-87.502 - 28.389)
Female	-70.727**	(-83.881 - -57.572)
Doctor of Osteopathic Medicine	5.315	(-16.159 - 26.789)
Internal Medical Graduates	81.523**	(54.640 - 108.405)
<i>Years in Practice</i>		
5 to 14 years	73.466*	(14.889 - 132.043)
15 to 24 years	57.480	(-3.010 - 117.970)
25 to 34 years	24.848	(-38.282 - 87.978)
35 or more years	-35.020	(-99.681 - 29.641)
Less than 75% time spent in direct patient care	-0.675**	(-1.121 - -0.229)
<i>Ownership</i>		
Private solo practice	-233.732**	(-310.013 - -157.452)
Group Practice	-222.981**	(-320.689 - -125.273)
Urgent care	28.236	(-59.905 - 116.376)
Hospital outpatient setting	-170.659**	(-283.664 - -57.653)
Other Ownership	-301.460**	(-375.966 - -226.955)
Government	-284.516**	(-356.943 - -212.088)
Community Characteristics		
Rural	31.536*	(5.900 - 57.172)
SDI quintile	33.260**	(24.479 - 42.040)
Primary care physician ratio	-41.724**	(-72.687 - -10.760)
Proportion Asian	-4.679**	(-6.835 - -2.524)
Proportion Black	0.907	(-0.002 - 1.817)
Proportion LHS	-1.243*	(-2.343 - -0.144)
Proportion AIAN	-2.575**	(-4.493 - -0.656)
State Policy Characteristics		
Medicaid expansion status	85.086**	(26.489 - 143.683)
High primary care reimbursement rate	27.590	(-30.043 - 85.222)

Results from negative binomial regressions
95% confidence intervals in parentheses

** p<0.01, * p<0.05