



# National Health Interview Survey

Access and Utilization by Medicaid Expansion Status

## Access and utilization by Medicaid expansion status for low-income adults aged 19–64: Estimates from the National Health Interview Survey, United States, 2016

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**Table 1. Selected measures of access to health care for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by state Medicaid expansion status: United States, 2016**

Access to health care	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup> (standard error)
Adults <sup>4</sup> aged 19–64 years with family incomes less than or equal to 138% FPL <sup>5</sup>	14,913	100.0	9,627	100.0	24,540	100.0
Usual place of care <sup>6</sup>						
Yes	12,164	81.6 (1.24) <sup>‡</sup>	6,554	68.1 (1.68)	18,709	76.2 (1.04)
No	2,749	18.4 (1.24) <sup>‡</sup>	3,073	31.9 (1.68)	5,831	23.8 (1.04)
Kind of place <sup>7†</sup>						
Clinic or health center	3,731	30.7 (1.58) <sup>‡</sup>	2,799	42.7 (2.13)	6,533	34.9 (1.28)
Doctor's office or HMO	7,890	64.9 (1.69) <sup>‡</sup>	3,459	52.8 (2.21)	11,337	60.6 (1.36)
Other place	543	4.5 (0.84)	296	4.5 (0.88)	839	4.5 (0.63)
Any unmet medical need <sup>8</sup>						
Yes	3,937	26.4 (1.40) <sup>‡</sup>	3,865	40.1 (1.91)	7,812	31.8 (1.17)
No	10,976	73.6 (1.40) <sup>‡</sup>	5,762	59.9 (1.91)	16,728	68.2 (1.17)
Didn't get needed medical care due to cost, past 12 months						
Yes	1,398	9.4 (0.87) <sup>‡</sup>	1,918	19.9 (1.45)	3,318	13.5 (0.81)
No	13,515	90.6 (0.87) <sup>‡</sup>	7,709	80.1 (1.45)	21,222	86.5 (0.81)
Delayed care due to cost, past 12 months						
Yes	1,582	10.6 (0.99) <sup>‡</sup>	2,065	21.4 (1.61)	3,649	14.9 (0.90)
No	13,332	89.4 (0.99) <sup>‡</sup>	7,562	78.6 (1.61)	20,891	85.1 (0.90)
Needed but couldn't afford prescription medicine, past 12 months						
Yes	1,439	9.7 (0.90) <sup>‡</sup>	1,742	18.1 (1.42)	3,185	13.0 (0.80)
No	13,474	90.3 (0.90) <sup>‡</sup>	7,885	81.9 (1.42)	21,354	87.0 (0.80)
Needed but couldn't afford mental health care, past 12 months						
Yes	516	3.5 (0.50) <sup>‡</sup>	558	5.8 (1.04)	1,075	4.4 (0.51)
No	14,397	96.5 (0.50) <sup>‡</sup>	9,069	94.2 (1.04)	23,465	95.6 (0.51)
Needed but couldn't afford dental care, past 12 months						
Yes	2,246	15.1 (1.12) <sup>‡</sup>	2,149	22.3 (1.56)	4,399	17.9 (0.92)
No	12,667	84.9 (1.12) <sup>‡</sup>	7,478	77.7 (1.56)	20,141	82.1 (0.92)
Needed but couldn't afford eyeglasses, past 12 months						
Yes	1,430	9.6 (0.90) <sup>‡</sup>	1,381	14.3 (1.36)	2,813	11.5 (0.77)
No	13,483	90.4 (0.90) <sup>‡</sup>	8,246	85.7 (1.36)	21,727	88.5 (0.77)
Needed but couldn't afford to see a specialist, past 12 months						
Yes	915	6.1 (0.82) <sup>‡</sup>	1,077	11.2 (1.27)	1,995	8.1 (0.72)
No	13,998	93.9 (0.82) <sup>‡</sup>	8,549	88.8 (1.27)	22,545	91.9 (0.72)

See footnotes at end of table.

**Table 1. Selected measures of access to health care for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by state Medicaid expansion status: United States, 2016—continued**

Access to health care	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup> (standard error)
Needed but couldn't afford follow up care, past 12 months						
Yes	690	4.6 (0.66) <sup>‡</sup>	814	8.5 (1.00)	1,506	6.1 (0.57)
No	14,223	95.4 (0.66) <sup>‡</sup>	8,812	91.5 (1.00)	23,033	93.9 (0.57)
Prescribed medication, past 12 months						
Yes	8,620	57.8 (1.64) <sup>‡</sup>	5,031	52.3 (1.85)	13,649	55.6 (1.21)
No	6,293	42.2 (1.64) <sup>‡</sup>	4,596	47.7 (1.85)	10,891	44.4 (1.21)
Skipped medication doses to save money, past 12 months <sup>9</sup>						
Yes	761	5.1 (0.67) <sup>‡</sup>	795	8.3 (1.08)	1,557	6.3 (0.59)
No	14,152	94.9 (0.67) <sup>‡</sup>	8,832	91.7 (1.08)	22,983	93.7 (0.59)
Took less medicine to save money, past 12 months <sup>9</sup>						
Yes	801	5.4 (0.70) <sup>‡</sup>	798	8.3 (1.07)	1,600	6.5 (0.60)
No	14,112	94.6 (0.70) <sup>‡</sup>	8,829	91.7 (1.07)	22,940	93.5 (0.60)
Delayed filling prescription to save money, past 12 months <sup>9</sup>						
Yes	999	6.7 (0.85) <sup>‡</sup>	1,141	11.9 (1.27)	2,142	8.7 (0.72)
No	13,914	93.3 (0.85) <sup>‡</sup>	8,486	88.1 (1.27)	22,398	91.3 (0.72)
Asked for lower cost medication to save money, past 12 months <sup>9</sup>						
Yes	1,554	10.4 (0.94) <sup>‡</sup>	1,364	14.2 (1.20)	2,920	11.9 (0.76)
No	13,359	89.6 (0.94) <sup>‡</sup>	8,263	85.8 (1.20)	21,620	88.1 (0.76)
Any nonfinancial barrier to care in the past 12 months <sup>10</sup>						
Yes	2,274	15.3 (1.24)	1,421	14.8 (1.40)	3,695	15.1 (0.94)
No	12,639	84.7 (1.24)	8,206	85.2 (1.40)	20,845	84.9 (0.94)
Delayed care because unable to get through on phone, past 12 months						
Yes	530	3.6 (0.48)	244	2.5 (0.50)	773	3.2 (0.35)
No	14,383	96.4 (0.48)	9,383	97.5 (0.50)	23,766	96.8 (0.35)
Delayed care because unable to get appointment soon enough, past 12 months						
Yes	1,194	8.0 (0.88)	594	6.2 (0.99)	1,787	7.3 (0.66)
No	13,719	92.0 (0.88)	9,032	93.8 (0.99)	22,752	92.7 (0.66)
Delayed care because office wait time was too long, past 12 months						
Yes	951	6.4 (0.78)	620	6.4 (1.07)	1,571	6.4 (0.63)
No	13,962	93.6 (0.78)	9,007	93.6 (1.07)	22,969	93.6 (0.63)

See footnotes at end of table.

**Table 1. Selected measures of access to health care for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by state Medicaid expansion status: United States, 2016—continued**

Access to health care	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup> (standard error)
Delayed care because office wasn't open when could go, past 12 months						
Yes	491	3.3 (0.48)	230	2.4 (0.50)	721	2.9 (0.36)
No	14,422	96.7 (0.48)	9,396	97.6 (0.50)	23,819	97.1 (0.36)
Delayed care because didn't have transportation, past 12 months						
Yes	642	4.3 (0.66)	489	5.1 (0.84)	1,132	4.6 (0.52)
No	14,271	95.7 (0.66)	9,138	94.9 (0.84)	23,408	95.4 (0.52)

<sup>1</sup>Chi-square test significant at  $p < 0.05$ .

<sup>2</sup>Significantly different from nonexpansion states within each measure of access to care at  $p < 0.05$ .

<sup>3</sup>Medicaid expansion states include: AK (only those interviewed from March through December 2016), AZ, AR, CA, CO, CT, DE, DC, HI, IL, IN, IA, KY, MD, MA, MI, MN, MT (only those interviewed from July through December 2016), NV, NH, NJ, NM, NY, ND, OH, OR, PA, RI, VT, WA, and WV.

<sup>4</sup>Medicaid nonexpansion states include: AL, FL, GA, ID, KS, LA (only those interviewed from January through June 2016), ME, MS, MO, NE, NC, OK, SC, SD, TN, TX, UT, VA, WI, and WY.

<sup>5</sup>Excludes those living in AK (only for those interviewed from January through February 2016), LA (only for those interviewed from July through December 2016), and MT (only for those interviewed from January through June 2016). These periods reflect the 6 months following the date of state's Medicaid expansion.

<sup>6</sup>Adults were those covered by private insurance, Medicaid coverage, or were uninsured. Private coverage includes any comprehensive private insurance plan (including health maintenance and preferred provider organizations). These plans include those obtained through an employer, purchased directly, purchased through local or community programs, or purchased through the Health Insurance Marketplace or a state-based exchange. Private coverage excludes plans that pay for only one type of service, such as accidents or dental care. Medicaid includes Medicaid and only state-sponsored health plans with no premiums or it is not known if a premium is charged. An adult was defined as uninsured if he or she did not have any private health insurance, Medicare, Medicaid, Children's Health Insurance Program (CHIP), state-sponsored or other government-sponsored health plan, or military plan. An adult was also defined as uninsured if he or she had only a private plan that paid for one type of service, such as accidents or dental care.

<sup>7</sup>FPL is federal poverty level, based on family income and family size, using the U.S. Census Bureau's poverty thresholds. The 2016 imputed income files were used to help create the poverty variable, and this variable is based on reported and imputed family income. For more information see: [https://www.cdc.gov/nchs/nhis/nhis\\_2016\\_data\\_release.htm](https://www.cdc.gov/nchs/nhis/nhis_2016_data_release.htm).

<sup>8</sup>Based on a question that asked respondents, "Is there a place that you usually go to when you are sick or need advice about your health?" Adults who report the emergency department as their usual place of care are defined as having no usual place of care.

<sup>9</sup>Only among adults who have a usual place of care.

<sup>10</sup>Adults were classified as having "Any unmet need" if they reported "yes" to any of the following questions: "During the past 12 months was there any time when [you/someone in the family] needed medical care, but did not get it because [you/the family] could not afford it?" "During the past 12 months, [have/has] [you/anyone in the family] delayed seeking medical care because of worry about the cost." "During the past 12 months, was there any time when you needed any of the following, but didn't get it because you couldn't afford it: prescription medicines, mental health care or counseling, or dental care?"

<sup>11</sup>Adults who were not prescribed medication in the past 12 months were considered to be a "no" response for this measure.

<sup>12</sup>Adults were classified as having "Any nonfinancial barrier to care" if they reported "yes" to any of the following for delaying care in the past 12 months: couldn't get through on the telephone; couldn't get an appointment soon enough; once you get there, wait too long to see the doctor; the clinic/doctor's office wasn't open when you could get there; didn't have transportation.

NOTES: This analysis excluded those who were covered by Medicare, had only military health care, had only Indian Health Service, were noncitizens, had Supplemental Social Security income and were pregnant sample adult females. Number of persons rounded to the nearest 1,000. The sum of number of persons within the subpopulations may not add up to the total due to rounding. Estimates are based on household interviews of a sample of the civilian noninstitutionalized U.S. population.

SOURCE: NCHS, National Health Interview Survey, 2016, Family and Sample Adult Core components.

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**Table 2. State Medicaid expansion status for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by selected measures of access to health care: United States, 2016**

Access to health care	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup>
Adults <sup>4</sup> aged 19–64 years with family incomes less than or equal to 138% FPL <sup>5</sup>	14,913	60.7 (1.32)	9,627	39.3 (1.32)	24,540	100.0
Usual place of care <sup>6</sup>						
Yes	12,164	64.7 (1.41)	6,554	35.3 (1.41)	18,709	100.0
No	2,749	46.9 (2.49)	3,073	53.1 (2.49)	5,831	100.0
Kind of place <sup>7</sup>						
Clinic or health center	3,731	56.8 (2.39)	2,799	43.2 (2.39)	6,533	100.0
Doctor's office or HMO	7,890	69.3 (1.64)	3,459	30.7 (1.64)	11,337	100.0
Other place	543	64.4 (6.30)	296	35.6 (6.30)	839	100.0
Any unmet medical need <sup>8</sup>						
Yes	3,937	50.2 (2.19)	3,865	49.8 (2.19)	7,812	100.0
No	10,976	65.3 (1.51)	5,762	34.7 (1.51)	16,728	100.0
Didn't get needed medical care due to cost, past 12 months						
Yes	1,398	42.1 (3.18)	1,918	57.9 (3.18)	3,318	100.0
No	13,515	63.6 (1.35)	7,709	36.4 (1.35)	21,222	100.0
Delayed care due to cost, past 12 months						
Yes	1,582	43.3 (3.23)	2,065	56.7 (3.23)	3,649	100.0
No	13,332	63.7 (1.37)	7,562	36.3 (1.37)	20,891	100.0
Needed but couldn't afford prescription medicine, past 12 months						
Yes	1,439	45.0 (3.29)	1,742	55.0 (3.29)	3,185	100.0
No	13,474	62.9 (1.35)	7,885	37.1 (1.35)	21,354	100.0
Needed but couldn't afford mental health care, past 12 months						
Yes	516	47.9 (5.89)	558	52.1 (5.89)	1,075	100.0
No	14,397	61.1 (1.33)	9,069	38.9 (1.33)	23,465	100.0
Needed but couldn't afford dental care, past 12 months						
Yes	2,246	50.9 (2.79)	2,149	49.1 (2.79)	4,399	100.0
No	12,667	62.7 (1.43)	7,478	37.3 (1.43)	20,141	100.0
Needed but couldn't afford eyeglasses, past 12 months						
Yes	1,430	50.6 (3.58)	1,381	49.4 (3.58)	2,813	100.0
No	13,483	61.8 (1.38)	8,246	38.2 (1.38)	21,727	100.0
Needed but couldn't afford to see a specialist, past 12 months						
Yes	915	45.7 (4.55)	1,077	54.3 (4.55)	1,995	100.0
No	13,998	61.9 (1.35)	8,549	38.1 (1.35)	22,545	100.0

See footnotes at end of table.

**Table 2. State Medicaid expansion status for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by selected measures of access to health care: United States, 2016—continued**

Access to health care	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup>
Needed but couldn't afford follow up care, past 12 months						
Yes	690	45.6 (4.77)	814	54.4 (4.77)	1,506	100.0
No	14,223	61.5 (1.33)	8,812	38.5 (1.33)	23,033	100.0
Prescribed medication, past 12 months						
Yes	8,620	63.0 (1.63)	5,031	37.0 (1.63)	13,649	100.0
No	6,293	57.6 (1.95)	4,596	42.4 (1.95)	10,891	100.0
Skipped medication doses to save money, past 12 months <sup>9</sup>						
Yes	761	48.7 (4.76)	795	51.3 (4.76)	1,557	100.0
No	14,152	61.4 (1.35)	8,832	38.6 (1.35)	22,983	100.0
Took less medicine to save money, past 12 months <sup>9</sup>						
Yes	801	49.9 (4.74)	798	50.1 (4.74)	1,600	100.0
No	14,112	61.3 (1.35)	8,829	38.7 (1.35)	22,940	100.0
Delayed filling prescription to save money, past 12 months <sup>9</sup>						
Yes	999	46.5 (4.40)	1,141	53.5 (4.40)	2,142	100.0
No	13,914	61.9 (1.33)	8,486	38.1 (1.33)	22,398	100.0
Asked for lower cost medication to save money, past 12 months <sup>9</sup>						
Yes	1,554	53.1 (3.21)	1,364	46.9 (3.21)	2,920	100.0
No	13,359	61.6 (1.39)	8,263	38.4 (1.39)	21,620	100.0
Any nonfinancial barrier to care in the past 12 months <sup>10</sup>						
Yes	2,274	61.3 (3.25)	1,421	38.7 (3.25)	3,695	100.0
No	12,639	60.4 (1.41)	8,206	39.6 (1.41)	20,845	100.0
Delayed care because unable to get through on phone, past 12 months						
Yes	530	68.3 (5.23)	244	31.7 (5.23)	773	100.0
No	14,383	60.3 (1.34)	9,383	39.7 (1.34)	23,766	100.0
Delayed care because unable to get appointment soon enough, past 12 months						
Yes	1,194	66.5 (4.42)	594	33.5 (4.42)	1,787	100.0
No	13,719	60.0 (1.38)	9,032	40.0 (1.38)	22,752	100.0
Delayed care because office wait time was too long, past 12 months						
Yes	951	60.3 (5.13)	620	39.7 (5.13)	1,571	100.0
No	13,962	60.5 (1.35)	9,007	39.5 (1.35)	22,969	100.0

See footnotes at end of table.

**Table 2. State Medicaid expansion status for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by selected measures of access to health care: United States, 2016—continued**

Access to health care	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup>
Delayed care because office wasn't open when could go, past 12 months						
Yes	491	67.9 (5.50)	230	32.1 (5.50)	721	100.0
No	14,422	60.3 (1.33)	9,396	39.7 (1.33)	23,819	100.0
Delayed care because didn't have transportation, past 12 months						
Yes	642	56.5 (5.75)	489	43.5 (5.75)	1,132	100.0
No	14,271	60.7 (1.32)	9,138	39.3 (1.32)	23,408	100.0

<sup>1</sup>Medicaid expansion states include: AK (only those interviewed from March through December 2016), AZ, AR, CA, CO, CT, DE, DC, HI, IL, IN, IA, KY, MD, MA, MI, MN, MT (only those interviewed from July through December 2016), NV, NH, NJ, NM, NY, ND, OH, OR, PA, RI, VT, WA, and WV.

<sup>2</sup>Medicaid nonexpansion states include: AL, FL, GA, ID, KS, LA (only those interviewed from January through June 2016), ME, MS, MO, NE, NC, OK, SC, SD, TN, TX, UT, VA, WI, and WY.

<sup>3</sup>Excludes those living in AK (only for those interviewed from January through February 2016), LA (only for those interviewed from July through December 2016), and MT (only for those interviewed from January through June 2016). These periods reflect the 6 months following the date of state's Medicaid expansion.

<sup>4</sup>Adults were those covered by private insurance, Medicaid coverage, or were uninsured. Private coverage includes any comprehensive private insurance plan (including health maintenance and preferred provider organizations). These plans include those obtained through an employer, purchased directly, purchased through local or community programs, or purchased through the Health Insurance Marketplace or a state-based exchange. Private coverage excludes plans that pay for only one type of service, such as accidents or dental care. Medicaid includes Medicaid and only state-sponsored health plans with no premiums or it is not known if a premium is charged. An adult was defined as uninsured if he or she did not have any private health insurance, Medicare, Medicaid, Children's Health Insurance Program (CHIP), state-sponsored or other government-sponsored health plan, or military plan. An adult was also defined as uninsured if he or she had only a private plan that paid for one type of service, such as accidents or dental care.

<sup>5</sup>FPL is federal poverty level, based on family income and family size, using the U.S. Census Bureau's poverty thresholds. The 2016 imputed income files were used to help create the poverty variable, and this variable is based on reported and imputed family income. For more information see: [https://www.cdc.gov/nchs/nhis/nhis\\_2016\\_data\\_release.htm](https://www.cdc.gov/nchs/nhis/nhis_2016_data_release.htm).

<sup>6</sup>Based on a question that asked respondents, "Is there a place that you usually go to when you are sick or need advice about your health?" Adults who report the emergency department as their usual place of care are defined as having no usual place of care.

<sup>7</sup>Only among adults who have a usual place of care.

<sup>8</sup>Adults were classified as having "Any unmet need" if they reported "yes" to any of the following questions: "During the past 12 months was there any time when [you/someone in the family] needed medical care, but did not get it because [you/the family] could not afford it?" "During the past 12 months, [have/has] [you/anyone in the family] delayed seeking medical care because of worry about the cost." "During the past 12 months, was there any time when you needed any of the following, but didn't get it because you couldn't afford it: prescription medicines, mental health care or counseling, or dental care?"

<sup>9</sup>Adults who were not prescribed medication in the past 12 months were considered to be a "no" response for this measure.

<sup>10</sup>Adults were classified as having "Any nonfinancial barrier to care" if they reported "yes" to any of the following for delaying care in the past 12 months: couldn't get through on the telephone; couldn't get an appointment soon enough; once you get there, wait too long to see the doctor; the clinic/doctor's office wasn't open when you could get there; didn't have transportation.

NOTES: This analysis excluded those who were covered by Medicare, had only military health care, had only Indian Health Service, were noncitizens, had Supplemental Social Security income and were pregnant sample adult females. Number of persons rounded to the nearest 1,000. The sum of number of persons within the subpopulations may not add up to the total due to rounding. Estimates are based on household interviews of a sample of the civilian noninstitutionalized U.S. population.

SOURCE: NCHS, National Health Interview Survey, 2016, Family and Sample Adult Core components.

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**Table 3. Selected measures of health care service use for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by state Medicaid expansion status: United States, 2016**

Use of selected health care services	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup> (standard error)
Adults <sup>4</sup> aged 19–64 years with family incomes less than or equal to 138% FPL <sup>5</sup>	14,913	100.0	9,627	100.0	24,540	100.0
Seen or talked to any health care professional, past 12 months						
Yes	11,788	79.0 (1.43) <sup>†</sup>	7,031	73.0 (1.47)	18,815	76.7 (1.05)
No	3,125	21.0 (1.43) <sup>†</sup>	2,596	27.0 (1.47)	5,725	23.3 (1.05)
Seen or talked to general doctor, past 12 months						
Yes	9,592	64.3 (1.66) <sup>†</sup>	4,902	50.9 (1.98)	14,485	59.0 (1.28)
No	5,322	35.7 (1.66) <sup>†</sup>	4,725	49.1 (1.98)	10,055	41.0 (1.28)
Seen or talked to nurse practitioner, physician assistant, or midwife, past 12 months						
Yes	3,533	23.7 (1.35) <sup>†</sup>	1,724	17.9 (1.36)	5,255	21.4 (0.99)
No	11,380	76.3 (1.35) <sup>†</sup>	7,903	82.1 (1.36)	19,285	78.6 (0.99)
Seen or talked to medical specialist, past 12 months						
Yes	2,712	18.2 (1.11) <sup>†</sup>	1,268	13.2 (1.14)	3,977	16.2 (0.81)
No	12,201	81.8 (1.11) <sup>†</sup>	8,359	86.8 (1.14)	20,563	83.8 (0.81)
Blood cholesterol check, past 12 months						
Yes	7,338	49.2 (1.72) <sup>†</sup>	4,018	41.7 (1.93)	11,349	46.2 (1.28)
No	7,576	50.8 (1.72) <sup>†</sup>	5,609	58.3 (1.93)	13,191	53.8 (1.28)
Blood pressure check, past 12 months						
Yes	11,554	77.5 (1.51) <sup>†</sup>	6,907	71.8 (1.67)	18,458	75.2 (1.14)
No	3,360	22.5 (1.51) <sup>†</sup>	2,719	28.2 (1.67)	6,082	24.8 (1.14)
Blood sugar check, past 12 months						
Yes	5,107	34.2 (1.68)	3,085	32.0 (1.81)	8,191	33.4 (1.23)
No	9,807	65.8 (1.68)	6,542	68.0 (1.81)	16,348	66.6 (1.23)
Received flu vaccine, past 12 months <sup>6</sup>						
Yes	4,611	30.9 (1.47) <sup>†</sup>	2,302	23.9 (1.43)	6,911	28.2 (1.06)
No	10,302	69.1 (1.47) <sup>†</sup>	7,325	76.1 (1.43)	17,629	71.8 (1.06)
Colon cancer test, past 12 months <sup>7</sup>						
Yes	588	19.1 (2.54)	362	17.9 (2.74)	950	18.6 (1.86)
No	2,484	80.9 (2.54)	1,662	82.1 (2.74)	4,147	81.4 (1.86)
Mammogram, past 12 months <sup>8</sup>						
Yes	707	46.3 (3.89)	453	40.6 (5.10)	1,161	43.9 (3.20)
No	819	53.7 (3.89)	663	59.4 (5.10)	1,482	56.1 (3.20)
Hospitalized overnight, past 12 months						
Yes	1,335	8.9 (0.88)	851	8.8 (0.96)	2,186	8.9 (0.66)
No	13,579	91.1 (0.88)	8,776	91.2 (0.96)	22,354	91.1 (0.66)

See footnotes at end of table.

**Table 3. Selected measures of health care service use for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by state Medicaid expansion status: United States, 2016—continued**

Use of selected health care services	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup> (standard error)
Visited Emergency Department, past 12 months						
Yes	4,042	27.1 (1.35)	2,690	27.9 (1.66)	6,732	27.4 (1.05)
No	10,871	72.9 (1.35)	6,937	72.1 (1.66)	17,807	72.6 (1.05)
Number of Emergency Department visits, past 12 months						
0	10,871	72.9 (1.35)	6,937	72.1 (1.66)	17,807	72.6 (1.05)
1	2,177	14.6 (1.09)	1,481	15.4 (1.18)	3,658	14.9 (0.80)
2 or more	1,865	12.5 (0.98)	1,209	12.6 (1.29)	3,074	12.5 (0.78)
Visited Emergency Department because no other place to go <sup>9</sup>						
Yes	1,659	41.0 (2.94) <sup>‡</sup>	1,377	51.2 (3.48)	3,039	45.1 (2.28)
No	2,383	59.0 (2.94) <sup>‡</sup>	1,312	48.8 (3.48)	3,694	54.9 (2.28)
Visited Emergency Department because doctor's office wasn't open <sup>9</sup>						
Yes	1,840	45.5 (2.83) <sup>‡</sup>	934	34.7 (3.10)	2,772	41.2 (2.12)
No	2,203	54.5 (2.83) <sup>‡</sup>	1,756	65.3 (3.10)	3,960	58.8 (2.12)
Visited Emergency Department because problem too serious for doctor's office <sup>9</sup>						
Yes	2,023	50.1 (2.97)	1,222	45.4 (3.44)	3,244	48.2 (2.22)
No	2,019	49.9 (2.97)	1,468	54.6 (3.44)	3,488	51.8 (2.22)

<sup>\*</sup>Significantly different from nonexpansion states within each measure of utilization of care at  $p < 0.05$ .

<sup>1</sup>Medicaid expansion states include: AK (only those interviewed from March through December 2016), AZ, AR, CA, CO, CT, DE, DC, HI, IL, IN, IA, KY, MD, MA, MI, MN, MT (only those interviewed from July through December 2016), NV, NH, NJ, NM, NY, ND, OH, OR, PA, RI, VT, WA, and WV.

<sup>2</sup>Medicaid nonexpansion states include: AL, FL, GA, ID, KS, LA (only those interviewed from January through June 2016), ME, MS, MO, NE, NC, OK, SC, SD, TN, TX, UT, VA, WI, and WY.

<sup>3</sup>Excludes those living in AK (only for those interviewed from January through February 2016), LA (only for those interviewed from July through December 2016), and MT (only for those interviewed from January through June 2016). These periods reflect the 6 months following the date of state's Medicaid expansion.

<sup>4</sup>Adults were those covered by private insurance, Medicaid coverage, or were uninsured. Private coverage includes any comprehensive private insurance plan (including health maintenance and preferred provider organizations). These plans include those obtained through an employer, purchased directly, purchased through local or community programs, or purchased through the Health Insurance Marketplace or a state-based exchange. Private coverage excludes plans that pay for only one type of service, such as accidents or dental care. Medicaid includes Medicaid and only state-sponsored health plans with no premiums or it is not known if a premium is charged. An adult was defined as uninsured if he or she did not have any private health insurance, Medicare, Medicaid, Children's Health Insurance Program (CHIP), state-sponsored or other government-sponsored health plan, or military plan. An adult was also defined as uninsured if he or she had only a private plan that paid for one type of service, such as accidents or dental care.

<sup>5</sup>FPL is federal poverty level, based on family income and family size, using the U.S. Census Bureau's poverty thresholds. The 2016 imputed income files were used to help create the poverty variable, and this variable is based on reported and imputed family income. For more information see: [https://www.cdc.gov/nchs/nhis/nhis\\_2016\\_data\\_release.htm](https://www.cdc.gov/nchs/nhis/nhis_2016_data_release.htm).

<sup>6</sup>Includes vaccination both by shot and nasal spray.

<sup>7</sup>Limited to adults aged 50–64 years.

<sup>8</sup>Limited to female adults aged 50–64 years.

<sup>9</sup>Limited to adults who had a visit to the emergency with at least one emergency department visit in the past 12 months. This measure is regarding the most recent visit to the emergency department.

NOTES: This analysis excluded those who were covered by Medicare, had only military health care, had only Indian Health Service, were noncitizens, had Supplemental Social Security income and were pregnant sample adult females. Number of persons rounded to the nearest 1,000. The sum of number of persons within the subpopulations may not add up to the total due to rounding. Estimates are based on household interviews of a sample of the civilian noninstitutionalized U.S. population.

SOURCE: NCHS, National Health Interview Survey, 2016, Family and Sample Adult Core components.

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**Table 4. State Medicaid expansion status for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by selected measures of health care service use: United States, 2016**

Use of selected health care services	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup>
Adults <sup>4</sup> aged 19–64 years with family incomes less than or equal to 138% FPL <sup>5</sup>	14,913	60.7 (1.32)	9,627	39.3 (1.32)	9,627	100.0
Seen or talked to any health care professional, past 12 months						
Yes	11,788	62.4 (1.43)	7,031	37.6 (1.43)	18,815	100.0
No	3,125	54.3 (2.57)	2,596	45.7 (2.57)	5,725	100.0
Seen or talked to general doctor, past 12 months						
Yes	9,592	65.9 (1.62)	4,902	34.1 (1.62)	14,485	100.0
No	5,322	52.7 (2.06)	4,725	47.3 (2.06)	10,055	100.0
Seen or talked to nurse practitioner, physician assistant, or midwife, past 12 months						
Yes	3,533	67.0 (2.30)	1,724	33.0 (2.30)	5,255	100.0
No	11,380	58.8 (1.50)	7,903	41.2 (1.50)	19,285	100.0
Seen or talked to medical specialist, past 12 months						
Yes	2,712	67.9 (2.45)	1,268	32.1 (2.45)	3,977	100.0
No	12,201	59.1 (1.46)	8,359	40.9 (1.46)	20,563	100.0
Blood cholesterol check, past 12 months						
Yes	7,338	64.3 (1.80)	4,018	35.7 (1.80)	11,349	100.0
No	7,576	57.1 (1.83)	5,609	42.9 (1.83)	13,191	100.0
Blood pressure check, past 12 months						
Yes	11,554	62.4 (1.44)	6,907	37.6 (1.44)	18,458	100.0
No	3,360	55.0 (2.63)	2,719	45.0 (2.63)	6,082	100.0
Blood sugar check, past 12 months						
Yes	5,107	62.3 (2.17)	3,085	37.7 (2.17)	8,191	100.0
No	9,807	60.0 (1.61)	6,542	40.0 (1.61)	16,348	100.0
Received flu vaccine, past 12 months <sup>6</sup>						
Yes	4,611	66.6 (2.09)	2,302	33.4 (2.09)	6,911	100.0
No	10,302	58.3 (1.51)	7,325	41.7 (1.51)	17,629	100.0
Colon cancer test, past 12 months <sup>7</sup>						
Yes	588	62.1 (5.33)	362	37.9 (5.33)	950	100.0
No	2,484	60.1 (2.79)	1,662	39.9 (2.79)	4,147	100.0
Mammogram, past 12 months <sup>8</sup>						
Yes	707	61.1 (4.39)	453	38.9 (4.39)	1,161	100.0
No	819	55.5 (4.75)	663	44.5 (4.75)	1,482	100.0
Hospitalized overnight, past 12 months						
Yes	1,335	61.0 (3.67)	851	39.0 (3.67)	2,186	100.0
No	13,579	60.6 (1.38)	8,776	39.4 (1.38)	22,354	100.0

See footnotes at end of table.

**Table 4. State Medicaid expansion status for adults aged 19–64 with family incomes less than or equal to 138 percent of the federal poverty level, by selected measures of health care service use: United States, 2016—continued**

Use of selected health care services	Number of persons in expansion states <sup>1</sup> (in thousands)	Percent in expansion states <sup>1</sup> (standard error)	Number of persons in nonexpansion states <sup>2</sup> (in thousands)	Percent in nonexpansion states <sup>2</sup> (standard error)	Number of persons in all states <sup>3</sup> (in thousands)	Percent in all states <sup>3</sup>
Visited Emergency Department, past 12 months						
Yes	4,042	59.8 (2.20)	2,690	40.2 (2.20)	6,732	100.0
No	10,871	60.8 (1.53)	6,937	39.2 (1.53)	17,807	100.0
Number of Emergency Department visits, past 12 months						
0	10,871	60.8 (1.53)	6,937	39.2 (1.53)	17,807	100.0
1	2,177	59.3 (2.83)	1,481	40.7 (2.83)	3,658	100.0
2 or more	1,865	60.4 (3.31)	1,209	39.6 (3.31)	3,074	100.0
Visited Emergency Department because no other place to go <sup>9</sup>						
Yes	1,659	54.3 (3.30)	1,377	45.7 (3.30)	3,039	100.0
No	2,383	64.2 (2.90)	1,312	35.8 (2.90)	3,694	100.0
Visited Emergency Department because doctor's office wasn't open <sup>9</sup>						
Yes	1,840	66.2 (3.21)	934	33.8 (3.21)	2,772	100.0
No	2,203	55.5 (2.83)	1,756	44.5 (2.83)	3,960	100.0
Visited Emergency Department because problem too serious for doctor's office <sup>9</sup>						
Yes	2,023	61.9 (3.20)	1,222	38.1 (3.20)	3,244	100.0
No	2,019	57.4 (3.06)	1,468	42.6 (3.06)	3,488	100.0

<sup>1</sup>Medicaid expansion states include: AK (only those interviewed from March through December 2016), AZ, AR, CA, CO, CT, DE, DC, HI, IL, IN, IA, KY, MD, MA, MI, MN, MT (only those interviewed from July through December 2016), NV, NH, NJ, NM, NY, ND, OH, OR, PA, RI, VT, WA, and WV.

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<sup>5</sup>FPL is federal poverty level, based on family income and family size, using the U.S. Census Bureau's poverty thresholds. The 2016 imputed income files were used to help create the poverty variable, and this variable is based on reported and imputed family income. For more information see: [https://www.cdc.gov/nchs/nhis/nhis\\_2016\\_data\\_release.htm](https://www.cdc.gov/nchs/nhis/nhis_2016_data_release.htm).

<sup>6</sup>Includes vaccination both by shot and nasal spray.

<sup>7</sup>Limited to adults aged 50–64 years.

<sup>8</sup>Limited to female adults aged 50–64 years.

<sup>9</sup>Limited to adults who had a visit to the emergency with at least one emergency department visit in the past 12 months. This measure is regarding the most recent visit to the emergency department.

NOTES: This analysis excluded those who were covered by Medicare, had only military health care, had only Indian Health Service, were noncitizens, had Supplemental Social Security income and were pregnant sample adult females. Number of persons rounded to the nearest 1,000. The sum of number of persons within the subpopulations may not add up to the total due to rounding. Estimates are based on household interviews of a sample of the civilian noninstitutionalized U.S. population.

SOURCE: NCHS, National Health Interview Survey, 2016, Family and Sample Adult Core components.

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