## SUPPLEMENTARY DATA

Supplementary Figure 1. Percent of type of private insurance by age among those with diabetes and private insurance. Black bars $=2009$; White bars $=2016$. Error bars represent $95 \%$ confidence intervals. ${ }^{*} \mathrm{p}<0.05,2016$ vs. 2009 PPO, Preferred provider organization; HMO/IPA, Health maintenance organization/independent practice organization; POS, Point-ofservice


Supplementary Table 1. Percent (standard error) of study population with diabetes by age, NHIS 2009 and 2016.

|  | Participant Characteristics |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Age 18-64 Years |  | Age $\geq \mathbf{6 5}$ Years |  |
|  | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ |
|  | $\mathbf{N}=\mathbf{1 5 8 1}$ | $\mathbf{N}=\mathbf{1 7 2 3}$ | $\mathbf{N}=\mathbf{1 1 2 0}$ | $\mathbf{N}=\mathbf{1 7 9 6}$ |
| Age |  |  |  |  |
| $18-39$ | $13.6(1.18)$ | $15.8(1.36)$ | NA | NA |
| $40-49$ | $25.3(1.61)$ | $19.2(1.36)^{*}$ | NA | NA |
| $50-59$ | $39.8(1.74)$ | $39.6(1.54)$ | NA | NA |
| $60-64$ | $21.3(1.30)$ | $25.3(1.37) \dagger$ | NA | NA |
| $65-74$ | NA | NA | $55.7(1.82)$ | $63.5(1.46)^{*}$ |
| $\geq 75$ | NA | NA | $44.3(1.82)$ | $36.5(1.46)^{*}$ |
| Sex |  |  |  |  |
| Men | $51.9(1.85)$ | $48.5(1.61)$ | $49.3(1.86)$ | $51.5(1.55)$ |
| Women | $48.1(1.85)$ | $51.1(1.61)$ | $50.7(1.86)$ | $48.5(1.55)$ |
| Race/Ethnicity |  |  |  |  |
| Non-Hispanic white | $62.9(1.59)$ | $57.2(1.90)^{*}$ | $69.9(1.68)$ | $67.4(1.74)$ |
| Non-Hispanic black | $17.0(1.15)$ | $17.8(1.34)$ | $14.2(1.13)$ | $13.6(1.23)$ |
| Hispanic | $15.8(1.13)$ | $19.0(1.64)$ | $10.9(1.16)$ | $12.6(1.28)$ |
| Mexican American | $10.6(0.94)$ | $11.7(1.42)$ | $6.5(0.96)$ | $7.5(1.06)$ |

## SUPPLEMENTARY DATA

| Non-Hispanic Asian | 3.6 (0.78) | 4.0 (0.81) | 4.0 (0.69) | 5.3 (0.98) |
| :---: | :---: | :---: | :---: | :---: |
| Non-Hispanic Other | 0.8 (0.29) | 2.0 (0.39)* | 1.1 (0.49) | 1.1 (0.25) |
| Education |  |  |  |  |
| Less than high school | 19.8 (1.47) | 18.7 (1.39) | 31.0 (1.68) | 22.5 (1.26)* |
| High school graduate | 32.8 (1.69) | 28.2 (1.42) $\dagger$ | 31.4 (1.79) | 29.6 (1.36) |
| Greater than high school education | 47.4 (1.85) | $53.2(1.52) \dagger$ | 37.5 (1.86) | 47.9 (1.53)* |
| Family income |  |  |  |  |
| <\$35,000 | 39.4 (1.66) | 38.7 (1.65) | 53.9 (2.03) | 46.6 (1.68)* |
| \$35,000-\$49,999 | 14.9 (1.19) | 11.1 (0.98) $\dagger$ | 16.4 (1.38) | 14.6 (1.19) |
| \$50,000-\$74,999 | 18.4 (1.24) | 16.4 (1.22) | 15.0 (1.42) | 17.5 (1.26) |
| \$75,000-\$99,999 | 11.2 (1.09) | 10.9 (1.03) | 7.1 (1.24) | 9.6 (1.09) |
| $\geq \$ 100,000$ | 16.1 (1.50) | 22.9 (1.47)* | 7.5 (1.23) | $11.8(1.15) \dagger$ |
| Marital status |  |  |  |  |
| Married or living with partner | 65.0 (1.53) | 60.9 (1.57) | 58.3 (1.87) | 55.8 (1.57) |
| Divorced or separated | 16.2 (1.09) | 17.0 (1.16) | 11.0 (1.04) | 15.4 (1.06)* |
| Widowed | 4.1 (0.57) | 3.7 (0.49) | 27.7 (1.59) | 23.3 (1.12) $\dagger$ |
| Never married | 14.8 (1.17) | 18.3 (1.29) $\dagger$ | 3.0 (0.47) | 5.5 (0.60)* |
| Diabetes duration (years) |  |  |  |  |
| <5 | 40.0 (1.87) | 34.3 (1.64) $\dagger$ | 24.8 (1.53) | 15.6 (1.15)* |
| 5-15 | 40.7 (1.62) | 43.3 (1.66) | 41.9 (1.87) | 40.3 (1.51) |
| >15 | 19.3 (1.22) | 22.4 (1.34) | 33.3 (1.79) | 44.2 (1.51)* |
| Diabetes medication |  |  |  |  |
| Insulin only | 11.8 (1.03) | 12.1 (0.92) | 12.8 (1.25) | 13.2 (1.00) |
| Oral only | 55.2 (1.75) | 55.7 (1.56) | 61.3 (1.75) | 58.2 (1.51) |
| Insulin and oral | 14.1 (1.29) | 16.4 (1.16) | 13.5 (1.20) | 16.9 (1.09) $\dagger$ |
| None | 18.9 (1.43) | 15.9 (1.15) | 12.4 (1.20) | 11.7 (1.02) |
| Hypertension |  |  |  |  |
| Yes | 63.7 (1.84) | 67.6 (1.53) | 81.5 (1.27) | 81.2 (1.20) |
| No | 36.3 (1.84) | 32.4 (1.53) | 18.5 (1.27) | 18.8 (1.20) |
| Heart condition/disease ${ }^{\ddagger}$ |  |  |  |  |
| Yes | 21.7 (1.57) | 23.1 (1.34) | 41.2 (2.10) | 37.4 (1.49) |
| No | 78.3 (1.57) | 76.9 (1.34) | 58.8 (2.10) | 62.6 (1.49) |
| Weak or failing kidneys ${ }^{\text {§ }}$ |  |  |  |  |
| Yes | 6.5 (0.82) | 6.3 (0.72) | 9.7 (1.12) | 11.3 (0.97) |
| No | 93.5 (0.82) | 93.7 (0.72) | 90.3 (1.12) | 88.7 (0.97) |
| Vision problems ${ }^{\text {\|l }}$ |  |  |  |  |
| Yes | 17.1 (1.38) | 21.6 (1.21) $\dagger$ | 19.3 (1.41) | 21.5 (1.22) |
| No | 82.9 (1.38) | 78.4 (1.21) | 80.7 (1.41) | 78.5 (1.22) |
| Visited doctor in past 12 months |  |  |  |  |
| Yes | 85.2 (1.17) | 83.8 (1.33) | 92.0 (0.97) | 92.3 (0.76) |
| No | 14.8 (1.17) | 16.2 (1.33) | 8.0 (0.97) | 7.7 (0.76) |
| Visited eye doctor in past 12 months |  |  |  |  |
| Yes | 53.4 (1.75) | 53.3 (1.61) | 66.6 (1.76) | 71.3 (1.46) $\dagger$ |
| No | 46.6 (1.75) | 46.7 (1.61) | 33.4 (1.76) | 28.7 (1.46) |
| Visited foot doctor in past 12 months |  |  |  |  |
| Yes | 17.5 (1.46) | 17.7 (1.36) | 26.9 (1.65) | 30.6 (1.48) |
| No | 82.5 (1.46) | 82.3 (1.36) | 73.1 (1.65) | 69.4 (1.48) |

## SUPPLEMENTARY DATA

${ }^{*} \mathrm{p}<0.01,2016$ vs. 2009
${ }^{\dagger} \mathrm{p}<0.05,2016$ vs. 2009
${ }^{\ddagger}$ Includes coronary heart disease, angina pectoris, heart attack, other heart condition
§ Weak or failing kidneys does not include kidney stones, bladder infections, or incontinence
${ }^{\|}$Trouble seeing even with glasses or contacts
Supplementary Table 2. Percent (standard error) of study population with diabetes age 18-64 years by health insurance coverage, NHIS 2009 and 2016.

|  | Participant Characteristics |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Health Insurance |  | No Health Insurance |  |
|  | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ |
|  | $\mathbf{N}=\mathbf{1 3 3 5}$ | $\mathbf{N}=\mathbf{1 5 6 0}$ | $\mathbf{N}=\mathbf{2 4 6}$ | $\mathbf{N}=\mathbf{1 5 7}$ |
| Age |  |  |  |  |
| $18-39$ | $12.6(1.21)$ | $14.8(1.38)$ | $19.4(3.62)$ | $24.8(4.71)$ |
| $40-49$ | $25.2(1.84)$ | $19.2(1.40)$ | $25.8(3.59)$ | $20.5(4.96)$ |
| $50-59$ | $40.5(1.93)$ | $40.1(1.67)$ | $36.7(3.69)$ | $36.2(5.43)$ |
| $60-64$ | $21.8(1.38)$ | $25.9(1.49)$ | $18.1(3.84)$ | $18.5(3.71)$ |
| Sex |  |  |  |  |
| Men | $52.0(2.00)$ | $50.0(1.73)$ | $51.8(3.97)$ | $35.2(5.11)$ |
| Women | $48.0(2.00)$ | $50.0(1.73)$ | $48.2(3.97)$ | $64.8(5.11)$ |
| Race/Ethnicity |  |  |  |  |
| Non-Hispanic white | $65.0(1.73)$ | $58.8(1.94)$ | $51.2(4.79)$ | $42.8(6.01)$ |
| Non-Hispanic black | $17.0(1.29)$ | $18.0(1.41)$ | $16.2(2.64)$ | $15.5(3.61)$ |
| Hispanic | $13.5(1.15)$ | $17.4(1.65)$ | $29.0(4.12)$ | $34.2(6.00)$ |
| Mexican American | $8.9(0.96)$ | $10.3(1.39)$ | $19.7(3.29)$ | $25.0(5.69)$ |
| Non-Hispanic Asian | $3.8(0.91)$ | $4.2(0.82)$ | $2.0(0.97)$ | $1.9(1.80)$ |
| Non-Hispanic Other | $0.6(0.23)$ | $1.7(0.34)$ | $1.7(1.06)$ | $5.6(1.78)$ |
| Education |  |  |  |  |
| Less than high school | $16.7(1.36)$ | $17.8(1.49)$ | $37.5(4.45)$ | $25.3(4.22)$ |
| High school graduate | $33.3(1.83)$ | $27.0(1.47)$ | $30.0(3.77)$ | $39.5(5.70)$ |
| Greater than high school education | $50.0(1.98)$ | $55.2(1.58)$ | $32.5(3.99)$ | $35.1(5.11)$ |
| Family income |  |  |  |  |
| $<\$ 35,000$ | $35.5(1.71)$ | $37.0(1.70)$ | $59.9(4.41)$ | $53.5(5.96)$ |
| $\$ 35,000-\$ 49,999$ | $13.6(1.21)$ | $10.5(0.94)$ | $21.7(4.11)$ | $16.5(4.31)$ |
| $\$ 50,000-\$ 74,999$ | $19.8(1.43)$ | $16.2(1.35)$ | $10.8(2.28)$ | $18.6(4.01)$ |
| $\$ 75,000-\$ 99,999$ | $12.7(1.23)$ | $11.8(1.12)$ | $3.5(1.49)$ | $2.6(1.71)$ |
| $\geq \$ 100,000$ | $18.4(1.72)$ | $24.4(1.53)$ | $4.0(1.52)$ | $8.8(4.37)$ |
| Marital status |  |  |  |  |
| Married or living with partner | $66.1(1.68)$ | $61.3(1.64)$ | $58.6(4.84)$ | $57.2(5.06)$ |
| Divorced or separated | $15.8(1.15)$ | $16.9(1.19)$ | $18.3(3.50)$ | $19.2(3.59)$ |
| Widowed | $4.1(0.62)$ | $4.0(0.54)$ | $4.0(1.54)$ | $1.8(0.84)$ |
| Never married | $14.0(1.22)$ | $17.9(1.37)$ | $19.2(3.53)$ | $21.8(4.35)$ |
| Diabetes duration (years) |  |  |  |  |
| $<5$ | $38.1(2.06)$ | $34.1(1.72)$ | $50.3(4.02)$ | $36.4(5.21)$ |
| $5-15$ | $41.9(1.79)$ | $42.4(1.68)$ | $34.0(4.06)$ | $51.1(5.63)$ |
| $>15$ | $20.0(1.33)$ | $23.5(1.45)$ | $15.7(3.62)$ | $12.6(2.95)$ |
| Diabetes medication |  |  |  |  |
|  |  |  |  | 2 |

## SUPPLEMENTARY DATA

| Insulin only | $11.9(1.11)$ | $12.4(1.00)$ | $11.1(2.54)$ | $9.2(2.31)$ |
| :--- | :---: | :---: | :---: | :---: |
| Oral only | $55.0(1.87)$ | $55.6(1.65)$ | $56.2(4.02)$ | $55.4(5.52)$ |
| Insulin and oral | $15.1(1.43)$ | $17.3(1.27)$ | $8.6(2.36)$ | $8.2(2.26)$ |
| None | $18.0(1.55)$ | $14.7(1.12)$ | $24.0(3.28)$ | $27.2(5.21)$ |
| Hypertension |  |  |  |  |
| Yes | $65.2(1.93)$ | $68.7(1.62)$ | $55.3(4.18)$ | $58.8(5.63)$ |
| No | $34.8(1.93)$ | $31.3(1.62)$ | $44.7(4.18)$ | $41.2(5.63)$ |
| Heart condition/disease ${ }^{\ddagger}$ |  |  |  |  |
| Yes | $23.2(1.72)$ | $24.0(1.36)$ | $13.5(2.61)$ | $16.1(4.95)$ |
| No | $76.8(1.72)$ | $76.0(1.36)$ | $86.5(2.61)$ | $83.9(4.95)$ |
| Weak or failing kidneys ${ }^{\S}$ |  |  |  |  |
| Yes | $6.7(0.87)$ | $6.6(0.87)$ | $5.8(2.04)$ | $4.2(1.35)$ |
| No | $93.3(0.87)$ | $93.4(0.79)$ | $94.2(2.04)$ | $95.8(1.35)$ |
| Vision problems ${ }^{\text {I }}$ |  |  |  |  |
| Yes | $16.5(1.55)$ | $21.4(1.29)$ | $20.6(3.20)$ | $24.1(5.11)$ |
| No | $83.5(1.55)$ | $78.6(1.29)$ | $79.4(3.20)$ | $75.9(5.11)$ |
| Visited doctor in past 12 months |  |  |  |  |
| Yes | $87.9(1.19)$ | $86.0(1.29)$ | $69.6(3.58)$ | $64.6(5.16)$ |
| No | $12.1(1.19)$ | $14.0(1.29)$ | $30.4(3.58)$ | $35.4(5.16)$ |
| Visited eye doctor in past 12 months |  |  |  |  |
| Yes | $58.5(1.87)$ | $55.9(1.67)$ | $24.4(3.18)$ | $29.1(4.49)$ |
| No | $41.5(1.87)$ | $44.1(1.67)$ | $75.6(3.18)$ | $70.9(4.49)$ |
| Visited foot doctor in past $\mathbf{1 2}$ months |  |  |  |  |
| Yes | $19.4(1.65)$ | $18.3(1.43)$ | $6.9(3.07)$ | $12.5(3.44)$ |
| No | $80.6(1.65)$ | $81.7(1.43)$ | $93.1(3.07)$ | $87.5(3.44)$ |

$\mathrm{p}<0.01,2016$ vs. 2009
$\dagger \mathrm{p}<0.05,2016$ vs. 2009
${ }^{\ddagger}$ Includes coronary heart disease, angina pectoris, heart attack, other heart condition
§ Weak or failing kidneys does not include kidney stones, bladder infections, or incontinence
${ }^{\|}$Trouble seeing even with glasses or contacts
NA, not applicable

## SUPPLEMENTARY DATA

Supplementary Table 3. Percent (standard error) of health insurance coverage among adults without diabetes by age, 2009 and 2016

|  | Prevalence of Health Insurance Coverage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Age 18-64 Years |  | Age $\geq \mathbf{6 5}$ Years |  |
|  | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ |
|  | $\mathbf{N = 2 0 , 6 3 9}$ | $\mathbf{N = 2 2 , 3 4 8}$ | $\mathbf{N}=\mathbf{4 3 6 9}$ | $\mathbf{N}=\mathbf{7 0 9 1}$ |
| Total | $78.3(0.44)$ | $88.3(0.38)^{*}$ | $99.2(0.17)$ | $99.2(0.16)$ |
| Age |  |  |  |  |
| $18-39$ | $72.8(0.64)$ | $86.1(0.52)^{*}$ | NA | NA |
| $40-49$ | $79.6(0.74)$ | $87.4(0.68)^{*}$ | NA | NA |
| $50-59$ | $86.5(0.71)$ | $92.0(0.51)^{*}$ | NA | NA |
| $60-64$ | $88.7(0.91)$ | $93.5(0.78)^{*}$ | NA | NA |
| $65-74$ | NA | NA | $98.8(0.29)$ | $98.3(0.25)$ |
| $\geq 75$ | NA | NA | $99.6(0.17)$ | $99.7(0.18)$ |
| Sex |  |  |  |  |
| Men | $75.1(0.66)$ | $86.1(0.53)^{*}$ | $99.4(0.19)$ | $99.2(0.25)$ |
| Women | $81.4(0.55)$ | $90.3(0.41)^{*}$ | $99.0(0.26)$ | $99.3(0.21)$ |
| Race/Ethnicity |  |  |  |  |
| Non-Hispanic white | $83.9(0.48)$ | $91.8(0.32)^{*}$ | $99.7(0.13)$ | $99.7(0.09)$ |
| Non-Hispanic black | $74.5(1.10)$ | $86.2(0.92)^{*}$ | $97.1(1.44)$ | $98.5(0.66)$ |
| Hispanic | $56.1(1.18)$ | $76.0(1.27)^{*}$ | $97.1(0.84)$ | $96.7(1.44)$ |
| Mexican American | $52.5(1.37)$ | $71.9(1.79)^{*}$ | $97.7(1.09)$ | $98.3(0.84)$ |
| Non-Hispanic Asian | $82.6(1.43)$ | $92.7(1.05)^{*}$ | $94.4(1.93)$ | $99.3(1.93)$ |
| Non-Hispanic Other | $61.7(4.54)$ | $80.7(2.85)^{*}$ | $100.0(0)$ | $96.4(3.55)$ |
| Education |  |  |  |  |
| Less than high school | $56.0(1.39)$ | $69.6(1.65)^{*}$ | $98.0(0.59)$ | $98.4(0.61)$ |
| High school graduate | $71.6(0.89)$ | $84.0(0.78)^{*}$ | $99.8(0.09)$ | $99.5(0.22)$ |
| Greater than high school education | $86.1(0.44)$ | $92.9(0.29)^{*}$ | $99.2(0.25)$ | $99.3(0.21)$ |
| Family income |  |  |  |  |
| $<\$ 35,000$ | $60.4(0.82)$ | $77.2(0.90)^{*}$ | $99.2(0.21)$ | $99.3(0.21)$ |
| $\$ 35,000-\$ 49,999$ | $72.2(1.15)$ | $82.2(1.11)^{*}$ | $99.0(0.49)$ | $99.3(0.47)$ |
| $\$ 50,000-\$ 74,999$ | $82.0(0.87)$ | $89.7(0.67)^{*}$ | $98.8(0.71)$ | $99.3(0.53)$ |
| $\$ 75,000-\$ 99,999$ | $90.6(0.88)$ | $94.7(0.59)^{*}$ | $99.9(0.09)$ | $98.6(0.86)$ |
| $\geq \$ 100,000$ | $94.3(0.55)$ | $96.9(0.35)^{*}$ | $98.9(0.75)$ | $99.8(0.24)$ |
| Marital status |  |  |  |  |
| Married or living with partner | $82.0(0.52)$ | $89.6(0.41)^{*}$ | $99.3(0.21)$ | $99.4(0.18)$ |
| Divorced or separated | $74.0(2.62)$ | $84.4(0.93)^{*}$ | $99.5(0.23)$ | $98.2(0.78)$ |
| Widowed | $79.6(2.62)$ | $87.4(1.92) \dagger$ | $98.8(0.43)$ | $99.8(0.13)$ |
| Never married | $71.2(0.88)$ | $86.7(0.69)^{*}$ | $98.9(0.57)$ | $97.4(1.29)$ |
| Hypertension |  |  |  |  |
| Yes | $84.1(0.70)$ | $91.3(0.55)^{*}$ | $99.1(0.25)$ | $99.3(0.21)$ |
| No | $76.9(0.50)$ | $87.5(0.44)^{*}$ | $99.2(0.23)$ | $99.1(0.26)$ |
| Heart condition/disease ${ }^{\ddagger}$ |  |  |  |  |
| Yes | $83.8(1.20)$ | $89.4(1.04)^{*}$ | $99.7(0.16)$ | $99.9(0.11)$ |
| No |  |  |  |  |
| Weak or failing kidneys ${ }^{\S}$ |  |  |  |  |
|  |  |  |  |  |

SUPPLEMENTARY DATA

| Yes | $75.3(4.63)$ | $91.0(2.59)^{*}$ | $99.4(0.65)$ | $98.8(0.85)$ |
| :--- | :---: | :---: | :---: | :---: |
| No | $78.3(0.44)$ | $88.2(0.38)^{*}$ | $99.2(0.18)$ | $99.3(0.16)$ |
| Vision problems ${ }^{\text {II }}$ |  |  |  |  |
| Yes | $74.8(1.77)$ | $88.4(0.96)^{*}$ | $99.8(0.12)$ | $98.3(0.74)$ |
| No | $786 .(0.44)$ | $88.3(0.40)^{*}$ | $99.1(0.20)$ | $99.4(0.15)$ |
| Visited doctor in past 12 months |  |  |  |  |
| Yes | $87.2(0.40)$ | $93.6(0.32)^{*}$ | $99.4(0.16)$ | $99.3(0.18)$ |
| No | $63.8(0.80)$ | $78.4(0.73)^{*}$ | $97.9(0.73)$ | $98.6(0.47)$ |
| Visited eye doctor in past 12 months |  |  |  |  |
| Yes | $89.2(0.51)$ | $94.8(0.31)^{*}$ | $99.4(0.24)$ | $99.5(0.18)$ |
| No | $73.0(0.55)$ | $84.7(0.51)^{*}$ | $98.8(0.27)$ | $98.8(0.31)$ |
| Visited foot doctor in past 12 months |  |  |  |  |
| Yes | $93.2(0.89)$ | $96.1(0.75) \dagger$ | $99.7(0.22)$ | $100.0(0)$ |
| No | $77.6(0.45)$ | $87.9(0.39)^{*}$ | $99.1(0.20)$ | $99.1(0.19)$ |

* $\mathrm{p}<0.01,2016$ vs. 2009
${ }^{\dagger} \mathrm{p}<0.05,2016$ vs. 2009
${ }^{\ddagger}$ Includes coronary heart disease, angina pectoris, heart attack, other heart condition
${ }^{\S}$ Weak or failing kidneys does not include kidney stones, bladder infections, or incontinence
${ }^{\text {| }}$ Trouble seeing even with glasses or contacts
NA, not applicable

SUPPLEMENTARY DATA
Supplementary Table 4. Prevalence $[\%,(\mathrm{SE})]$ of health insurance coverage and type of coverage among adults by diabetes status and age, NHIS 2009 and 2016

|  | Any Type |  | Medicare |  | Private |  | Medicaid/other public |  | Military Benefits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2016 | 2009 | 2016 | 2009 | 2016 | 2009 | 2016 | 2009 | 2016 |
| Diabetes |  |  |  |  |  |  |  |  |  |  |
| Total | 90.1 (0.91) | 94.1 (0.60)* | 43.0 (1.36) | 48.8 (1.15)* | 55.5 (1.34) | $51.5(1.16) \dagger$ | 16.5 (0.88) | $19.1(0.97) \dagger$ | 6.6 (0.64) | 6.4 (0.52) |
| 18-64 years | 84.7 (1.37) | 90.1 (1.03)* | 13.6 (1.13) | 14.3 (1.10) | 58.3 (1.80) | 56.3 (1.67) | 19.4 (1.24) | $24.3(1.52) \dagger$ | 4.0 (0.55) | 3.3 (0.48) |
| $\geq 65$ years | 99.7 (0.19) | 99.5 (0.19) | 95.2 (0.83) | 94.7 (0.70) | 50.6 (1.95) | $45.0(1.64) \dagger$ | 11.3 (1.11) | 12.2 (0.98) | 11.1 (1.45) | 10.4 (0.98) |
| No Diabetes |  |  |  |  |  |  |  |  |  |  |
| Total | 81.4 (0.36) | 90.2 (0.32)* | 16.2 (0.34) | 18.8 (0.34)* | 64.9 (0.48) | $66.8(0.52)^{*}$ | 8.8 (0.26) | 13.2 (0.39)* | 3.2 (0.14) | 3.8 (0.19)* |
| 18-64 years | 78.3 (0.41) | 88.3 (0.38)* | 2.7 (0.13) | $3.1(0.14) \dagger$ | 65.9 (0.55) | $70.5(0.55)^{*}$ | 9.2 (0.29) | 14.4 (0.44)* | 2.6 (0.15) | 2.9 (0.18) |
| $\geq 65$ years | 99.2 (0.17) | 99.2 (0.16) | 94.6 (0.44) | 94.4 (0.39) | 58.6 (1.02) | 49.3 (0.98)* | 6.4 (0.44) | 7.6 (0.47) | 7.0 (0.44) | 8.0 (0.43) |
| Type of $h$ $\begin{gathered} * \mathrm{p}<0.01 \\ \dagger \mathrm{p}<0.05 \end{gathered}$ | h insurance | not mutually | xclusive |  |  |  |  |  |  |  |

Supplementary Table 5. Prevalence of type of private insurance by age and diabetes status among those with private insurance, NHIS 2009 and 2016

|  | HMO/IPA |  | PPO |  | POS |  | Fee-for-service |  | Other |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 6}$ |
| Diabetes |  |  |  |  |  |  |  |  |  |  |
| Total | $29.9(1.81)$ | $27.5(1.74)$ | $56.3(1.88)$ | $60.1(1.78)$ | $3.1(0.66)$ | $3.5(0.58)$ | $5.9(1.00)$ | $2.7(0.48)^{*}$ | $6.9(0.83)$ | $7.6(0.91)$ |
| $18-64$ years | $33.7(2.34)$ | $29.0(2.32)$ | $58.3(2.40)$ | $64.4(2.32)$ | $2.7(0.72)$ | $3.2(0.71)$ | $3.1(1.11)$ | $0.87(0.37)$ | $4.2(0.77)$ | $4.0(0.90)$ |
| $\geq 65$ years | $21.3(2.43)$ | $24.9(2.40)$ | $51.6(3.25)$ | $52.2(2.64)$ | $3.9(1.43)$ | $4.0(1.05)$ | $12.1(2.08)$ | $6.2(1.12) \dagger$ | $13.2(2.09)$ | $14.4(1.81)$ |
| No Diabetes |  |  |  |  |  |  |  |  |  |  |
| Total | $27.8(0.63)$ | $27.5(0.85)$ | $63.1(0.68)$ | $63.3(0.85)$ | $3.5(0.22)$ | $3.4(0.26)$ | $2.6(0.21)$ | $1.8(0.17)^{*}$ | $4.6(0.27)$ | $5.0(0.30)$ |
| $18-64$ years | $28.9(0.67)$ | $28.3(0.88)$ | $64.6(0.71)$ | $64.7(0.89)$ | $3.3(0.22)$ | $3.5(0.27)$ | $1.8(0.20)$ | $0.9(0.12)^{*}$ | $3.1(0.22)$ | $3.7(0.27)$ |
| $\geq 65$ years | $19.1(1.25)$ | $22.2(1.35)$ | $52.3(1.66)$ | $53.1(1.51)$ | $5.0(0.76)$ | $3.2(0.45) \dagger$ | $8.9(0.87)$ | $8.0(0.86)$ | $15.6(1.35)$ | $14.6(1.06)$ |

Supplementary Table 6. Percent (standard error) of income spent on medical costs in past year among adults without diabetes, 2009 and 2016

|  | Family Medical Costs ${ }^{\dagger}$ |  |  |  | Private Insurance Premiums ${ }^{\dagger}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age 18-64 years |  | Age $\geq 65$ years |  | Age 18-64 years |  | Age $\geq 65$ years |  |
|  | 2009 | 2016 | 2009 | 2016 | 2009 | 2016 | 2009 | 2016 |
|  | $\mathbf{N}=19,409$ | $\mathrm{N}=20,460$ | $\mathrm{N}=3831$ | $\mathrm{N}=5905$ | $\mathrm{N}=7460$ | $\mathrm{N}=1407$ | $\mathrm{N}=\mathbf{8 8 9 9}$ | N=2026 |
| Overall | 2.8 (0.05) | 2.5 (0.04)* | 4.0 (0.11) | 3.1 (0.07)* | 3.8 (0.06) | 4.7 (0.10) | 5.2 (0.24) | 4.8 (0.12) |
| Family Income ${ }^{\text {§ }}$, \$ |  |  |  |  |  |  |  |  |
| 0-34,999 | 4.5 (0.13) | 3.8 (0.12)* | 5.8 (0.20) | 4.8 (0.17)* | 8.5 (0.04) | 9.6 (0.37) | 10.1 (0.24) | 11.1 (0.57) |
| 35,000-49,999 | 2.9 (0.09) | 2.5 (0.10)* | 3.2 (0.17) | 2.8 (0.15) | 5.1 (0.25) | 5.3 (0.28) | 4.9 (0.34) | 5.1 (0.28) |
| 50,000-74,999 | 2.2 (0.06) | 2.2 (0.06) | 2.3 (0.12) | 2.5 (0.10) | 3.8 (0.11) | 4.8 (0.19) | 3.5 (0.29) | 4.0 (0.23) |
| 75,000-99,999 | 1.7 (0.05) | 1.9 (0.05)* | 2.0 (0.13) | 1.8 (0.08) | 2.8 (0.07) | 4.1 (0.11) | 2.4 (0.22) | 2.6 (0.18) |
| $\geq 100,000$ | 1.7 (0.03) | 1.9 (0.03) | 1.8 (0.10) | 1.9 (0.07) | 3.0 (0.09) | 4.0 (0.13) | 2.1 (0.29) | 3.3 (0.19) |

* $\mathrm{p}<0.05$ for 2016 vs. 2009 within each age strata.
${ }^{\dagger}$ Family medical costs are the mid-point of the following categories: $\$ 0,<\$ 500, \$ 500-\$ 1,999, \$ 2,000-\$ 2,999, \$ 3,000-\$ 4,999, \geq \$ 5,000$.
Values $\geq \$ 5,000$ are coded as $\$ 5,000$. Family medical costs include out-of-pocket costs for medical and dental care and exclude health insurance premiums, over-the-counter drugs, and reimbursed costs.
${ }^{\ddagger}$ Among those with private insurance. Private insurance premiums are median costs. Values $\geq \$ 20,000$ are coded as $\$ 20,000$.
${ }^{\S}$ Denominators are the mid-point of family income category.

