## Online-only Supplemental Material

Supplemental Figure S1: Distribution of categories of HbA1c, systolic and diastolic blood pressures, and total cholesterol among US adults with newly diagnosed diabetes (diagnosed within the past 2 years), NHANES 1988-2018

Supplemental Table S1: Trends in prevalence of complications (extended outcomes) among US adults with newly diagnosed diabetes (diagnosed within the past 2 years), NHANES 1988-2018

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Supplemental Table S4: Age-sex-race/ethnicity adjusted trends in the prevalence of complications (extended outcomes) among US adults with newly diagnosed diabetes (diagnosed within the past 2 years), NHANES 1988-2018

Supplemental Table S5: Trends in the prevalence, treatment, and control of risk factors among US adults with newly diagnosed diabetes (diagnosed within the past year), NHANES 1988-2018

Supplemental Table S6: Trends in the prevalence of complications (extended outcomes) among US adults with newly diagnosed diabetes (diagnosed within the past year), NHANES 1988-2018

Supplemental Figure S1: Distribution of categories of HbA1c, systolic and diastolic blood pressures, and total cholesterol among US adults with newly diagnosed diabetes (diagnosed within the past 2 years), NHANES 1988-2018


Note: Estimates are weighted percentages based on the National Health and Nutrition Examination Survey (NHANES). P-values are from chi-square tests. HbA1c categories in SI units are $<6.0 \% ~(<42 \mathrm{mmol} / \mathrm{mol}), 6.0-6.9 \% ~(42-52 \mathrm{mmol} / \mathrm{mol}), 7.0-7.9 \%$ ( $53-63$ $\mathrm{mmol} / \mathrm{mol}$ ), $8.0-8.9 \%$ ( $64-74 \mathrm{mmol} / \mathrm{mol}$ ), $\geq 9.0 \%$ ( $\geq 75 \mathrm{mmol} / \mathrm{mol}$ ).

Supplemental Table S1: Trends in prevalence of complications (extended outcomes) among US adults with newly diagnosed diabetes (diagnosed within the past 2 years), NHANES 1988-2018

|  | 1988-1994 | 1999-2008 | 2009-2018 | P for trend |
| :---: | :---: | :---: | :---: | :---: |
| Any chronic kidney disease | 40.4 (31.8-49.5) | 28.0 (23.8-32.7) | 25.5 (21.7-29.7) | 0.003 |
| Percentage of chronic kidney cases treated with |  |  |  |  |
| ACE-I/ARB | 13.6 (6.7-25.4) | 50.7 (39.2-62.1) | 59.9 (50.6-68.5) | <0.001 |
| Albuminuria (albumin-to-creatine ratio $\geq 30 \mathrm{mg} / \mathrm{g}$ ) | 38.9 (30.7-47.9) | 21.0 (17.2-25.3) | 18.7 (15.6-22.3) | <0.001 |
| Percentage of albuminuria cases treated with |  |  |  |  |
| ACE-I/ARB | 12.4 (5.8-24.7) | 43.5 (32.2-55.6) | 59.0 (48.5-68.8) | <0.001 |
| Reduced eGFR (eGFR<60 ml/mi/ $1.73 \mathrm{~m}{ }^{2}$ ) | 7.5 (4.4-12.5) | 10.2 (7.4-13.9) | 9.9 (7.3-13.3) | 0.30 |
| Percentage of reduced eGFR cases treated with |  |  |  |  |
| ACE-I/ARB | 27.5 (9.7-57.2) | 68.3 (48.6-83.1) | 65.0 (48.3-78.6) | 0.02 |
| Retinopathy ( $\geq 1$ retinal microaneurysms or blot hemorrhages)* | 13.2 (6.7-24.3) | 12.1 (6.8-20.4) | - | 0.86 |
| Any lower extremity disease ${ }^{+}$ | - | 23.6 (17.8-30.5) | - | - |
| Peripheral neuropathy ( $\geq 1$ insensate area via monofilament testing) | - | 14.5 (9.8-21.1) | - | - |
| Peripheral artery disease (ankle-brachial-index<0.9) | - | 9.2 (5.7-14.7) | - | - |
| Self-reported foot or leg ulcer | - | 6.3 (2.5-15.3) | - | - |
| Any self-reported cardiovascular disease | 19.0 (13.5-26.1) | 14.8 (11.6-18.6) | 16.5 (12.6-21.3) | 0.64 |
| History of congestive heart failure | 6.9 (3.9-11.8) | 6.4 (4.3-9.5) | 5.1 (3.2-7.8) | 0.35 |
| History of stroke | 6.8 (3.7-12.2) | 6.4 (4.4-9.1) | 6.4 (4.5-9.1) | 0.95 |
| History of heart attack | 10.2 (6.1-16.4) | 6.6 (4.8-9.1) | 9.4 (6.3-13.7) | 0.90 |

Abbreviations: NHANES, National Health and Nutrition Examination Survey.
Figures are presented as percentages (with $95 \%$ confidence intervals).
*Retinopathy data were only available for adults aged 40+ during the 1988-1994 and 2005-2008 NHANES survey cycles.
${ }^{+}$Lower- extremity disease data were only available for adults aged 40+ during the 1999-2004 NHANES survey cycles.

Supplemental Table S2: Unadjusted and adjusted odds ratios (95\% confidence intervals) for albuminuria among US adults with newly diagnosed diabetes (diagnosed within the past 2 years), NHANES 1988-2018*

|  | 1988-1994 (ref) | 1999-2008 | 2009-2018 | P for trend |
| :---: | :---: | :---: | :---: | :---: |
| Model 1: Unadjusted | 3.13 (1.99-4.92) | 1.28 (0.89-1.83) | 1 (ref) | <0.001 |
| Model 2: +Age, sex, race/ethnicity ${ }^{+}$ | 3.31 (2.15-5.10) | 1.31 (0.91-1.90) | 1 (ref) | <0.001 |
| Model 3: +Education ${ }^{\ddagger}$ | 2.98 (1.93-4.62) | 1.29 (0.88-1.90) | 1 (ref) | <0.001 |
| Model 4: +HbA1c ${ }^{\text {¢ }}$ | 2.80 (1.79-4.37) | 1.27 (0.86-1.87) | 1 (ref) | <0.001 |
| Model 5: +Blood pressure ${ }^{1 /}$ | 2.62 (1.56-4.39) | 1.16 (0.80-1.68) | 1 (ref) | <0.001 |
| Model 6: +Total cholesterol ${ }^{\text {T }}$ | 2.27 (1.34-3.86) | 1.13 (0.78-1.64) | 1 (ref) | 0.005 |
| Model 7: +Weight status\# | 2.60 (1.48-4.55) | 1.20 (0.83-1.74) | 1 (ref) | 0.002 |

Abbreviations: NHANES, National Health and Nutrition Examination Survey; NH, Non-Hispanic; BMI, Body mass index
Figures are presented as odds ratios (with $95 \%$ confidence intervals).
*Albuminuria was defined as an albumin-to-creatine ratio $\geq 30 \mathrm{mg} / \mathrm{g}$.
${ }^{\dagger}$ Model 2: +age (20-44, 45-64, 65+), sex (male/female), and race/ethnicity (Non-Hispanic White, Non-Hispanic Black, Mexican American, other)
${ }^{\ddagger}$ Model 3: Model 2 + education (high school or less, some college, college graduate)
${ }^{5}$ Model 4: Model $3+$ HbA1c categories ( $<6.0 \%, 6.0-6.9 \%, 7.0-7.9 \%, 8.0-8.9 \%, \geq 9.0 \%$ ) [ $<42 \mathrm{mmol} / \mathrm{mol}, 42-52 \mathrm{mmol} / \mathrm{mol}, 53-63 \mathrm{mmol} / \mathrm{mol}, 64-74 \mathrm{mmol} / \mathrm{mol}, \geq 75$ $\mathrm{mmol} / \mathrm{mol}]$ )
${ }^{11}$ Model 5: Model $4+$ blood pressure categories ( $<120 /<80 \mathrm{~mm} \mathrm{Hg}, 120-129 \&<80 \mathrm{~mm} \mathrm{Hg}, 130-139 / 80-89 \mathrm{~mm} \mathrm{Hg}, 140-159 / 90-99 \mathrm{~mm} \mathrm{Hg}, \geq 160 / \geq 100 \mathrm{~mm} \mathrm{Hg}$ )
${ }^{7}$ Model 6: Model $5+$ total cholesterol categories ( $<200 \mathrm{mg} / \mathrm{dl}, 200-239 \mathrm{mg} / \mathrm{dl}, \geq 240 \mathrm{mg} / \mathrm{dl}$ )
\# Model 7: Model 6 + weight status groups (normal, BMI<25 kg/m²; overweight, BMI $25-29.9 \mathrm{~kg} / \mathrm{m}^{2}$; obese, BMI $\geq 30 \mathrm{~kg} / \mathrm{m}^{2}$ )

Supplemental Table S3: Age-sex-race/ethnicity adjusted trends in the prevalence, treatment, and control of vascular risk factors among US adults with newly diagnosed diabetes (diagnosed within the past 2 years), NHANES 1988-2018

|  | 1988-1994 | 1999-2008 | 2009-2018 | P for trend |
| :---: | :---: | :---: | :---: | :---: |
| Glucose control |  |  |  |  |
| HbA1c, \%-points, median | 6.3 (5.7-6.8) | 6.2 (6.1-6.4) | 6.2 (6.0-6.4) | 0.60 |
| HbA1c, \%-points, mean | 7.0 (6.6-7.3) | 6.8 (6.5-7.1) | 6.7 (6.5-6.8) | 0.03 |
| Treated, \% |  |  |  |  |
| Insulin or oral medication use | 73.1 (65.7-79.4) | 73.1 (67.2-78.3) | 72.6 (67.1-77.6) | 0.78 |
| Oral medication use only | 60.5 (52.5-67.9) | 66.9 (60.9-72.3) | 64.7 (58.7-70.4) | 0.44 |
| Any insulin use | 12.6 (8.8-17.8) | 6.3 (3.5-11.0) | 7.9 (5.8-10.7) | 0.03 |
| HbA1c <7.0 \%-points (<53 mmol/mol), \% | 59.5 (49.7-68.7) | 70.3 (63.5-76.3) | 73.8 (68.9-78.1) | 0.002 |
| Blood pressure |  |  |  |  |
| Systolic blood pressure, mm Hg median | 129.4 (127.6-131.2) | 127.9 (126.1-129.6) | 124.3 (122.2-126.4) | 0.001 |
| Diastolic blood pressure, mm Hg , median | 76.4 (74.9-77.9) | 72.4 (71.1-73.7) | 72.4 (70.8-74.0) | <0.001 |
| Systolic blood pressure, mm Hg, mean | 130.5 (128.1-132.9) | 129.1 (126.9-131.3) | 125.6 (123.9-127.2) | 0.002 |
| Diastolic blood pressure, mm Hg , mean | 77.4 (76.0-78.8) | 71.8 (70.0-73.7) | 72.3 (70.9-73.8) | <0.001 |
| Treated, \% | 39.8 (30.8-49.4) | 51.6 (46.0-57.2) | 54.9 (49.1-60.5) | 0.01 |
| Hypertension ( $\geq 140 / 90 \mathrm{~mm} \mathrm{Hg}$ or med use), \% | 49.2 (41.1-57.3) | 59.5 (53.5-65.3) | 60.9 (55.1-66.4) | 0.03 |
| Treated* | 81.3 (69.7-89.2) | 86.4 (80.6-90.6) | 90.0 (85.8-93.0) | 0.08 |
| Treated and controlled (blood pressure $<140 / 90 \mathrm{~mm} \mathrm{Hg}$ ) ${ }^{*}$ | 47.2 (36.1-58.6) | 58.9 (51.1-66.2) | 66.3 (59.4-72.6) | 0.01 |
| Hypertension ( $\geq 130 / 80 \mathrm{~mm} \mathrm{Hg}$ or med use), \% | 71.8 (62.5-79.6) | 71.2 (65.5-76.3) | 70.5 (64.5-75.9) | 0.87 |
| Treated* | 55.8 (44.7-66.4) | 72.1 (65.7-77.6) | 77.4 (71.7-82.2) | 0.001 |
| Treated and controlled (blood pressure $<130 / 80 \mathrm{~mm} \mathrm{Hg}$ ) ${ }^{*}$ | 9.2 (4.9-16.8) | 28.5 (23.0-34.7) | 36.2 (30.6-42.3) | <0.001 |
| Lipids |  |  |  |  |
| Total cholesterol, mg/dl, median | 210.7 (200.6-220.9) | 192.7 (185.2-200.3) | 180.2 (175.0-185.5) | <0.001 |
| Total cholesterol, mg/dl, mean | 219.0 (209.9-228.1) | 198.4 (192.4-204.4) | 182.8 (178.5-187.1) | <0.001 |
| Treated, \% | 14.4 (8.4-23.6) | 35.1 (29.5-41.2) | 42.9 (37.2-48.7) | <0.001 |
| Hyperlipidemia (total cholesterol $\geq 240 \mathrm{mg} / \mathrm{dl}$ or med use), \% | 39.9 (30.2-50.5) | 45.8 (40.0-51.7) | 49.9 (44.5-55.4) | 0.08 |
| Treated ${ }^{\ddagger}$ | 33.6 (21.1-48.8) | 72.2 (64.6-78.6) | 84.5 (79.4-88.5) | <0.001 |
| Treated and controlled (total cholesterol < $240 \mathrm{mg} / \mathrm{dl}$ ) ${ }^{\ddagger}$ | 18.0 (8.8-33.2) | 44.8 (35.5-54.5) | 68.9 (62.3-74.9) | <0.001 |
| Hyperlipidemia (total cholesterol $\geq 200 \mathrm{mg} / \mathrm{dl}$ or med use), \% | 71.3 (65.3-76.7) | 65.6 (60.5-70.4) | 66.3 (61.4-70.8) | 0.16 |
| Treated ${ }^{\ddagger}$ | 19.2 (11.3-30.7) | 51.4 (44.0-58.7) | 63.7 (56.7-70.2) | <0.001 |
| Treated and controlled (total cholesterol $<200 \mathrm{mg} / \mathrm{dl}$ ) ${ }^{\ddagger}$ | 9.7 (4.5-20.0) | 29.7 (22.2-38.5) | 50.4 (43.7-57.1) | <0.001 |

All three risk factors controlled

| HbA1c $<7.0 \%$ ( $<53 \mathrm{mmol} / \mathrm{mol}$ ), blood pressure $<130 / 80 \mathrm{~mm} \mathrm{Hg}$, total cholesterol < $200 \mathrm{mg} / \mathrm{dl}, \%$ | 9.4 (6.1-14.3) | 18.2 (13.6-23.9) | 32.8 (26.7-39.5) | <0.001 |
| :---: | :---: | :---: | :---: | :---: |
| HbA1c $<7.0 \%$ ( $<53 \mathrm{mmol} / \mathrm{mol}$ ), blood pressure $<140 / 90 \mathrm{~mm} \mathrm{Hg}$, total cholesterol <240 mg/dl, \% | 31.4 (23.5-40.6) | 48 (41.4-54.8) | 56.3 (51.3-61.2) | <0.001 |
| Abbreviations: NHANES, National Health and Nutrition Examination Survey. |  |  |  |  |
| Predictive margins (with $95 \%$ confidence intervals) were estimated using regression models that controlled for age (20-44, 45-64, 65+), sex (male/female), and race/ethnicity (Non-Hispanic White, Non-Hispanic Black, Mexican American, other). |  |  |  |  |
| ${ }^{*}$ Computed for those with hypertension. |  |  |  |  |
| ${ }^{\ddagger}$ Computed for those with hyperlipidemia. |  |  |  |  |

Supplemental Table S4: Age-sex-race/ethnicity adjusted trends in the prevalence of complications (extended outcomes) among US adults with newly diagnosed diabetes (diagnosed within the past 2 years), NHANES 1988-2018

|  | 1988-1994 | 1999-2008 | 2009-2018 | P for trend |
| :---: | :---: | :---: | :---: | :---: |
| Any chronic kidney disease | 40.4 (32.3-49.1) | 28.2 (24.1-32.8) | 25.3 (21.4-29.6) | 0.002 |
| Percentage of chronic kidney cases treated with |  |  |  |  |
| ACE-I/ARB | 14.2 (7.4-25.4) | 50.2 (38.7-61.7) | 58.1 (49.3-66.5) | <0.001 |
| Albuminuria (albumin-to-creatine ratio $\geq 30 \mathrm{mg} / \mathrm{g}$ ) | 39.0 (31.1-47.6) | 21.0 (17.2-25.3) | 18.6 (15.5-22.2) | <0.001 |
| Percentage of albuminuria cases treated with |  |  |  |  |
| ACE-I/ARB | 12.6 (6.2-24.0) | 44.3 (32.2-57.0) | 57.8 (48.0-66.9) | <0.001 |
| Reduced eGFR (eGFR<60 ml/mi/ $1.73 \mathrm{~m}{ }^{2}$ ) | 7.4 (4.9-11.1) | 10.3 (7.8-13.6) | 9.9 (7.3-13.4) | 0.24 |
| Percentage of reduced eGFR cases treated with |  |  |  |  |
| ACE-I/ARB ${ }^{*}$ | 33.0 (13.2-61.4) | 68.5 (50.3-82.3) | 60.2 (42.5-75.5) | 0.03 |
| Retinopathy ( $\geq 1$ retinal microaneurysms or blot hemorrhages) ${ }^{\dagger}$ | 13.1 (7.1-22.9) | 12.5 (6.7-22.0) |  | 0.94 |
| Any lower extremity disease ${ }^{\ddagger}$ | - | 23.6 (17.8-30.5) | - | - |
| Peripheral neuropathy ( $\geq 1$ insensate area via monofilament testing) | - | 14.5 (9.8-21.1) | - | - |
| Peripheral artery disease (ankle-brachial-index<0.9) | - | 9.2 (5.7-14.7) | - | - |
| Self-reported foot or leg ulcer | - | 6.3 (2.5-15.3) | - | - |
| Any self-reported cardiovascular disease | 19.3 (13.7-26.5) | 15.1 (12.3-18.5) | 16.0 (12.1-20.9) | 0.51 |
| History of congestive heart failure | 6.9 (4.2-11.3) | 6.5 (4.5-9.5) | 5.0 (3.2-7.6) | 0.27 |
| History of stroke | 6.9 (3.8-12.2) | 6.6 (4.6-9.2) | 6.2 (4.3-8.8) | 0.83 |
| History of heart attack | 10.2 (6.1-16.8) | 6.9 (5.1-9.2) | 9.1 (6-13.5) | 0.81 |

[^0]Supplemental Table S5: Trends in the prevalence, treatment, and control of risk factors among US adults with newly diagnosed diabetes (diagnosed within the past year), NHANES 1988-2018

|  | 1988-1994 | 1999-2008 | 2009-2018 | P for trend |
| :---: | :---: | :---: | :---: | :---: |
| Glucose control |  |  |  |  |
| HbA1c, \%-points, median | 6.3 (5.6-8.1) | 6.2 (5.7-7.1) | 6.2 (5.7-7.1) | 0.73 |
| HbA1c, \%-points, mean | 6.7 (6.3-7.1) | 6.6 (6.4-6.8) | 6.6 (6.3-6.8) | 0.28 |
| Treated, \% | 69.4 (60.5-77.0) | 73.2 (66.4-79.0) | 70.6 (62.8-77.4) | 0.83 |
| Insulin or oral medication use | 56.0 (45.6-66.0) | 68.8 (61.9-74.9) | 63.4 (55.6-70.5) | 0.25 |
| Oral medication use only | 13.3 (7.6-22.3) | 4.4 (2.5-7.6) | 7.2 (4.5-11.4) | 0.09 |
| Any insulin use | 66.1 (53.7-76.7) | 74.3 (67.8-79.9) | 77.2 (71.4-82.1) | 0.05 |
| HbA1c <7.0 \%-points (<53 mmol/mol), \% | 69.4 (60.5-77.0) | 73.2 (66.4-79.0) | 70.6 (62.8-77.4) | 0.83 |
| Blood pressure |  |  |  |  |
| Systolic blood pressure, mm Hg median | 130.0 (119.0-137.0) | 126.7(118.0-137.3) | 124.0 (114.0-135.3) | 0.01 |
| Diastolic blood pressure, mm Hg , median | 78.0 (73.0-85.0) | 72.7 (64.0-82.0) | 72.0 (64.7-79.0) | 0.001 |
| Systolic blood pressure, mm Hg, mean | 129.4 (126.3-132.5) | 129.1 (126.4-131.9) | 124.5 (122.5-126.6) | 0.01 |
| Diastolic blood pressure, mm Hg , mean | 78.1 (76.2-80.1) | 71.2 (68.4-74.0) | 71.3 (69.8-72.9) | <0.001 |
| Treated, \% | 38.2 (25.7-52.6) | 55.7 (48.7-62.6) | 53.5 (45.7-61.1) | 0.09 |
| Hypertension ( $\geq 140 / 90 \mathrm{~mm} \mathrm{Hg}$ or med use), \% | 48.1 (35.4-61.1) | 63.3 (56.2-69.8) | 58.0 (50.0-65.6) | 0.23 |
| Treated* | 79.4 (62.7-89.9) | 87.2 (80.4-91.9) | 92.2 (88.9-94.6) | 0.05 |
| Treated and controlled (blood pressure $<140 / 90 \mathrm{~mm} \mathrm{Hg}$ ) ${ }^{*}$ | 52.0 (34.5-69.0) | 63.9 (54.8-72.0) | 71.5 (63.9-78.0) | 0.05 |
| Hypertension ( $\geq 130 / 80 \mathrm{~mm} \mathrm{Hg}$ or med use), \% | 70.4 (58.4-80.1) | 74.3 (67.7-80.0) | 67.4 (59.6-74.4) | 0.72 |
| Treated* | 54.3 (37.4-70.3) | 74.3 (66.4-80.9) | 79.3 (72.0-85.1) | 0.01 |
| Treated and controlled (blood pressure $<130 / 80 \mathrm{~mm} \mathrm{Hg}$ )* | 11.0 (5.3-21.2) | 30.5 (23.9-38.0) | 38.9 (30.9-47.5) | <0.001 |
| Lipids |  |  |  |  |
| Total cholesterol, mg/dl, median | 212.0 (187.0-246.0) | 192.0 (166.0-218.0) | 181.0 (153.0-208.0) | 0.004 |
| Total cholesterol, mg/dl, mean | 216.0 (206.9-225.0) | 196.3 (189.7-203.0) | 180.4 (176.2-184.6) | <0.001 |
| Treated, \% | 15.7 (8.9-26.5) | 33.8 (27.2-41.1) | 43.0 (35.3-51.0) | <0.001 |
| Hyperlipidemia (total cholesterol $\geq 240 \mathrm{mg} / \mathrm{dl}$ or med use), \% | 43.6 (32.6-55.3) | 40.8 (34.3-47.7) | 47.8 (40.4-55.3) | 0.61 |
| Treated ${ }^{\ddagger}$ | 32.6 (18.3-51.1) | 74.6 (65.6-82.0) | 88.3 (82.3-92.5) | <0.001 |
| Treated and controlled (total cholesterol <240 mg/dl) ${ }^{\ddagger}$ | 23.6 (10.3-45.2) | 53.4 (42.2-64.3) | 71.6 (63.1-78.8) | <0.001 |
| Hyperlipidemia (total cholesterol $\geq 200 \mathrm{mg} / \mathrm{dl}$ or med use), \% | 70.8 (61.7-78.4) | 63.2 (57.4-68.7) | 64.1 (58.2-69.7) | 0.17 |
| Treated ${ }^{\ddagger}$ | 20.7 (11.7-33.8) | 50.8 (41.5-60.1) | 66.3 (56.6-74.7) | <0.001 |
| Treated and controlled (total cholesterol $<200 \mathrm{mg} / \mathrm{dl}$ ) ${ }^{\ddagger}$ | 14.0 (6.1-29.2) | 32.7 (24.1-42.5) | 51.9 (42.2-61.5) | <0.001 |

## All three risk factors controlled

| HbA1c<7.0\% (<53 mmol/mol), blood pressure $<130 / 80 \mathrm{~mm} \mathrm{Hg}$, total cholesterol < $200 \mathrm{mg} / \mathrm{dl}, \%$ | 11.5 (6.9-18.4) | 19.8 (14.8-26.0) | 37.5 (29.6-46.0) | <0.001 |
| :---: | :---: | :---: | :---: | :---: |
| HbA1c $<7.0 \%$ ( $<53 \mathrm{mmol} / \mathrm{mol}$ ), blood pressure $<140 / 90 \mathrm{~mm} \mathrm{Hg}$, total cholesterol <240 mg/dl, \% | 36.2 (25.7-48.3) | 53.6 (45.9-61.1) | 64.0 (58.4-69.3) | <0.001 |
| Abbreviations: NHANES, National Health and Nutrition Examination Survey. |  |  |  |  |
| Figures are presented as percentages or means (with 95\% confidence intervals) or median (with interquartile range). |  |  |  |  |
| * Computed for those with hypertension. |  |  |  |  |
| ${ }^{\ddagger}$ Computed for those with hyperlipidemia. |  |  |  |  |

Supplemental Table S6: Trends in the prevalence of complications (extended outcomes) among US adults with newly diagnosed diabetes (diagnosed within the past year), NHANES 1988-2018

|  | 1988-1994 | 1999-2008 | 2009-2018 | P for trend |
| :---: | :---: | :---: | :---: | :---: |
| Any chronic kidney disease | 39.6 (30.0-50.1) | 26.8 (21.1-33.4) | 23.4 (18.6-29.1) | 0.007 |
| Percentage of chronic kidney cases treated with |  |  |  |  |
| ACE-I/ARB | 11.4 (4.8-24.8) | 53.1 (39.1-66.6) | 63.4 (51.1-74.2) | <0.001 |
| Albuminuria (albumin-to-creatine ratio $\geq 30 \mathrm{mg} / \mathrm{g}$ ) | 37.9 (28.7-48.1) | 19.9 (14.7-26.3) | 17.1 (12.8-22.4) | <0.001 |
| Percentage of albuminuria cases treated with |  |  |  |  |
| ACE-I/ARB | 9.2 (3.4-22.4) | 46.1 (31.2-61.6) | 64.5 (51.7-75.5) | <0.001 |
| Reduced eGFR (eGFR<60 ml/mi/1.73 m ${ }^{2}$ ) | 5.5 (2.7-10.9) | 9.9 (6.6-14.8) | 9.8 (6.5-14.4) | 0.16 |
| Percentage of reduced eGFR cases treated with |  |  |  |  |
| ACE-I/ARB | 35.2 (9.1-74.7) | 70.5 (49.2-85.5) | 63.7 (42.5-80.7) | 0.22 |
| Retinopathy ( $\geq 1$ retinal microaneurysms or blot hemorrhages)* | 8.5 (3.7-18.2) | 7.2 (2.8-17.1) | - | 0.77 |
| Any lower extremity disease ${ }^{\ddagger}$ | - | 22.1 (15.7-30.3) | - | - |
| Peripheral neuropathy ( $\geq 1$ insensate area via monofilament testing) | - | 15.4 (9.7-23.5) | - | - |
| Peripheral artery disease (ankle-brachial-index<0.9) | - | 8.1 (4.6-13.8) | - | - |
| Self-reported foot or leg ulcer | - | 5.8 (2.0-15.7) | - | - |
| Any self-reported cardiovascular disease | 22.1 (14.6-31.9) | 13.9 (10.4-18.3) | 20.4 (15.0-27.2) | 0.83 |
| History of congestive heart failure | 8.5 (4.5-15.6) | 5.0 (3.0-8.1) | 5.5 (3.2-9.5) | 0.21 |
| History of stroke | 9.1 (4.5-17.7) | 7.0 (4.5-10.6) | 6.9 (4.3-10.9) | 0.49 |
| History of heart attack | 10.0 (5.2-18.4) | 6.9 (4.5-10.3) | 13.0 (8.6-19.2) | 0.42 |

Abbreviations: NHANES, National Health and Nutrition Examination Survey.
Figures are presented as percentages (with $95 \%$ confidence intervals).

* Retinopathy data were only available for adults aged 40+ during the 1988-1994 and 2005-2008 NHANES survey cycles.
${ }^{\ddagger}$ Lower- extremity disease data were only available for adults aged 40+ during the 1999-2004 NHANES survey cycles.


[^0]:    Abbreviations: NHANES, National Health and Nutrition Examination Survey.
    Predictive margins (with $95 \%$ confidence intervals) were estimated using logistic regression models that controlled for age (20-44, 45-64,
    $65+$ ), sex (male/female), and race/ethnicity (Non-Hispanic White, Non-Hispanic Black, Mexican American, other) unless otherwise noted.
    *Age was entered as a linear (rather than categorial) term in the logistic regression model due to empty cells.
    ${ }^{\dagger}$ Retinopathy data were only available for adults aged 40+ during the 1988-1994 and 2005-2008 NHANES survey cycles.
    ${ }^{\ddagger}$ Lower- extremity disease data were only available for adults aged 40+ during the 1999-2004 NHANES survey cycles and not adjusted.

