**SUPPLEMENTAL TABLE. Logistic regression models (Linear for HbA1c) with testing criteria as covariate of interest and current measurements related to diabetes control and complications as outcome, adjusted for past measurements related to diabetes control and complications (where available\*) and. Estimates in table are ORs (95% CI), except for HbA1c which is a β-coefficient.**

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| --- | --- | --- | --- | --- | --- | --- |
|  | **HbA1c****(continuous)** | **HTN****(Yes vs No)** | **ACR****(>= 30 vs < 30)** | **Dyslipidemia****(Yes vs No)** | **Peripheral Neuropathy\*****(Yes vs No)** | **Retinopathy\*****(Yes vs No)** |
| **Model 0:** No additional covariates  | N (events) | 1813 | 1943 (168) | 1410 (132) | 1605 (531) | 1986 (131) | 1974 (434) |
| overall p-value | p=0.0004 | p=0.7429 | p=0.1360 | p=0.4386 | p=0.1571 | p=0.0013 |
| Does not meet vs. meets criteria | 0.18 (0.02, 0.34)p=0.0285 | 0.91 (0.42, 1.97)---† | 0.66 (0.40, 1.11)---† | 0.93 (0.64, 1.35)---† | 0.99 (0.66, 1.49)---† | 1.65 (1.26, 2.17)p=0.0003 |
| DK/not sure vs. meets criteria | 0.99 (0.44, 1.54)p=0.0004 | 0.58 (0.14, 2.44)---† | 0.67 (0.39, 1.13)---† | 0.83 (0.61, 1.11)---† | 0.47 (0.21, 1.02)---† | 1.24 (0.67, 2.29)p=0.4908 |
| **Model 1:** Adjusted for Age, gender, & duration | N (events) | 1813 | 1943 (168) | 1410 (132) | 1605 (531) | 1986 (131) | 1974 (434) |
| overall p-value | p<0.0001 | 0.5203 | p=0.1388 | p=0.3491 | p=0.4179 | p=0.0071 |
| Does not meet vs. meets criteria | 0.32 (0.15, 0.49)p=0.0002 | 0.71 (0.32, 1.58)---† | 0.66 (0.39, 1.11)---† | 0.85 (0.57, 1.24)---† | 1.03 (0.68, 1.55)---† | 1.60 (1.19, 2.15)p=0.0016 |
| DK/not sure vs. meets criteria | 1.13 (0.59, 1.67)p<0.0001 | 0.55 (0.13, 2.34)---† | 0.67 (0.39, 1.15)---† | 0.82 (0.61, 1.11)---† | 0.59 (0.27, 1.32)---† | 1.08 (0.57, 2.06)p=0.8096 |
| **Model 2:** Model 1 + past HbA1c | N (events) | --- | 1801 (158) | 1376 (127) | 1600 (531) | 1812 (120) | 1803 (397) |
| overall p-value | --- | p=0.6241 | p=0.0545 | p=0.2232 | 0.4456 | p=0.0458 |
| Does not meet vs. meets criteria | --- | 0.76 (0.34, 1.69)---† | 0.60 (0.35, 1.02)---† | 0.83 (0.56, 1.22)---† | 0.90 (0.57, 1.40)---† | 1.50 (1.09, 2.06)p=0.0130 |
| DK/not sure vs. meets criteria | --- | 0.59 (0.14, 2.51)---† | 0.60 (0.34, 1.05)---† | 0.79 (0.58, 1.06)---† | 0.60 (0.27, 1.35)---† | 1.06 (0.54, 2.09)p=0.8613 |
| **Model 3:** Model 1 + race/ethnicity | N (events) | 1812 | 1942 (168) | 1409 (132) | 1604 (531) | 1985 (131) | 1973 (434) |
| overall p-value | p<0.0001 | p=0.4872^ | p=0.1911 | p=0.2702 | p=0.4191 | p=0.0083 |
| Does not meet vs. meets criteria | 0.27 (0.10, 0.44)p=0.0016 | 0.69 (0.31, 1.54)---† | 0.69 (0.41, 1.15)---† | 0.84 (0.57, 1.23)---† | 1.03 (0.68, 1.56)---† | 1.59 (1.19, 2.14)p=0.0020 |
| DK/not sure vs. meets criteria | 0.97 (0.43, 1.51)p=0.0004 | 0.55 (0.13, 2.32)---† | 0.69 (0.40, 1.18)---† | 0.80 (0.59, 1.08)---† | 0.59 (0.27, 1.32)---† | 1.01 (0.53, 1.94)p=0.9658 |
| **Model 4:** Model 3 + insurance, income, parent education, DM care provider, & clinical site | N (events) | 1755 | 1884 (161) | 1370 (127) | 1558 (516) | 1926 (127) | 1914 (417) |
| overall p-value | p=0.0002 | p=0.6522 | p=0.1112 | p=0.0537^ | p=0.4273 | p=0.0428 |
| Does not meet vs. meets criteria | 0.28 (0.12, 0.45)p=0.0009 | 0.71 (0.31, 1.62)---† | 0.61 (0.36, 1.05)---† | 0.77 (0.51, 1.16)---† | 1.03 (0.66, 1.61)---† | 1.49 (1.09, 2.03)p=0.0130 |
| DK/not sure vs. meets criteria | 0.81 (0.25, 1.37)p=0.0046 | 0.71 (0.16, 3.07)---† | 0.67 (0.39, 1.17)---† | 0.70 (0.51, 0.96)---† | 0.59 (0.26, 1.34)---† | 0.97 (0.49, 1.92)p=0.9271 |
| **Model 5:** Model 4 + past HbA1c | N (events) | --- | 1746 (152) | 1338 (122) | 1553 (516) | 1756 (116) | 1747 (381) |
| overall p-value | --- | p=0.7288 | p=0.0566 | p=0.0370 | p=0.3607 | p=0.1058 |
| Does not meet vs. meets criteria | --- | 0.74 (0.32, 1.70)---† | 0.57 (0.33, 1.00)---† | 0.76 (0.51, 1.15)p=0.1928 | 0.84 (0.52, 1.36)---† | 1.43 (1.03, 2.01)---† |
| DK/not sure vs. meets criteria | --- | 0.76 (0.17, 3.31)---† | 0.61 (0.34, 1.08)---† | 0.68 (0.49, 0.93)p=0.0169 | 0.56 (0.24, 1.30)---† | 1.01 (0.49, 2.05)---† |
| \* Past value not available for Peripheral Neuropathy and Retinopathy † Contrast p-values are not shown for models where the overall test of the 3-level covariate is non-significant^ Hosmer and Lemeshow Goodness-of-Fit test p<0.05 |