

SUPPLEMENTAL MATERIALS

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Supplementary Table S1. Baseline characteristics of participants with type 2 diabetes for the full cohort (n = 699) and analysis cohort.

| Characteristic | TODAY Cohort (N=699) | Repeat Fundus Exam (N=367) |
|---|---------------------------------|---------------------------------------|
| <i>Sex (% Female)</i> | 452 (64.6%) | 236 (64.3%) |
| <i>Race/ Ethnicity</i> | | |
| <i>Hispanic</i> | 278 (39.7%) | 146 (39.7%) |
| <i>Non-Hispanic Black</i> | 227 (32.5%) | 126 (34.3%) |
| <i>Non-Hispanic White</i> | 143 (20.5%) | 71 (19.3%) |
| <i>Other</i> | 51 (7.3%) | 24 (6.5%) |
| <i>Age at baseline (years)</i> | 14.0 (± 2.0) | 13.7 (± 2.0) |
| <i>Diabetes Duration (years)</i> | 4.9 (± 1.5) | 4.9 (± 1.5) |
| <i>Mean BMI (kg/m²)</i> | 34.9 (± 7.6) | 34.7 (± 7.8) |
| <i>Mean HbA1c (%)</i> | 6.0 (± 0.7) | 6.0 (± 0.8) |
| <i>Blood Pressure</i> | | |
| <i>Mean Systolic BP (mm Hg)</i> | 113.2 (± 10.9) | 112.6 (± 10.7) |
| <i>Mean Diastolic BP (mm Hg)</i> | 66.7 (± 8.2) | 66.6 (± 8.1) |
| <i>Cholesterol</i> | | |
| <i>Mean LDL (mg/dL)</i> | 85 (± 24.8) | 84 (± 24.2) |
| <i>Mean HDL (mg/dL)</i> | 38.7 (± 8.6) | 38.7 (± 8.8) |
| <i>Mean Triglycerides (mg/dL)</i> | 93.5 [27.0, 823.0] | 89 [30.0, 623.0] |
| <i>Mean Fasting C-Peptide (ng/mL)</i> | 3.6 [0.9, 11.1] | 3.5 [0.9, 9.6] |
| <i>Mean Fasting Glucose (mg/dL)</i> | 103.0 [70.0, 269.0] | 103 [70.0, 210.0] |
| <i>Comorbidities (%)</i> | | |
| <i>Hypertension</i> | 132 (18.8%) | 69 (18.8%) |
| <i>ACR ≥30mg/g</i> | 54 (7.7%) | 28 (7.6%) |
| <i>ACR ≥300mg/g</i> | 10 (1.4%) | 7 (1.9%) |
| <i>Medications (%)</i> | | |
| <i>History of any hypertensive medication</i> | 32 (4.6%) | 22 (6.0%) |
| <i>History of any lipid lowering medication</i> | 6 (0.8%) | 5 (1.4%) |
| <i>Ever Smoked (%)</i> | 27 (3.8%) | 9 (2.5%) |

Data are mean (± std), median [IQR], or n (%).

Supplementary Table 2. Stages of retinopathy at TODAY fundus exam and in TODAY2 at 7-year follow-up.

| | <i>Repeat Fundus Cohort</i> | | <i>TODAY2 Cohort</i> |
|--|-----------------------------|------------------|----------------------|
| | <i>2010-2011</i> | <i>2017-2018</i> | <i>2017-2018</i> |
| <i>Retinopathy Stage</i> | N = 367 | N = 367 | N = 420 |
| <i>No diabetic retinopathy</i> | 315 (85.8%) | 187 (51.0 %) | 210 (50.0%) |
| <i>Very mild NPDR</i> | 52 (14.2%) | 83 (22.6%) | 95 (22.6%) |
| <i>Mild NPDR</i> | 0 (0%) | 60 (16.35%) | 68 (16.2%) |
| <i>Moderate NPDR</i> | 0 (0%) | 14 (3.81%) | 16 (3.8%) |
| <i>Moderately severe NPDR</i> | 0 (0%) | 3 (0.82%) | 3 (0.7%) |
| <i>Severe NPDR</i> | 0 (0%) | 5 (1.36%) | 5 (1.2%) |
| <i>Early or stable, treated PDR</i> | 0 (0%) | 10 (2.72%) | 10 (2.4%) |
| <i>High risk PDR</i> | 0 (0%) | 4 (1.09%) | 5 (1.2%) |
| <i>Images not gradable/available</i> | 0 (0%) | 1 (0.27%) | 8 (1.9%) |
| <i>Clinically Significant Macular Edema[†]</i> | | | |
| <i>Absent</i> | 367 (100%) | 343 (93.5%) | 393 (93.6%) |
| <i>Definite</i> | 0 (0%) | 14 (3.8%) | 14 (3.3%) |
| <i>Questionable</i> | 0 (0%) | 6 (1.6%) | 7 (1.7%) |
| <i>Cannot grade</i> | 0 (0%) | 4 (1.1%) | 6 (1.4%) |

Data are n (%).

Worst case analysis. Based on the gradable eye if one of the eyes was not gradable.

Listing of the TODAY Study Group

The following individuals and institutions constitute the TODAY Study Group (* indicates principal investigator or director):

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