Superior paper quality with R-Markdown: The OBVIOUS Study

Table 0: Participants included.

| **Inclusion criteria** | **DPP** | **MESA** |
| --- | --- | --- |
| Study participants | 3,665 | 6,814 |
| Pre-diabetic at baseline1 | 3,152 | 1,067 |
| Randomized to placebo, metformin, or lifestyle | 2,640 | -- |
| *Abbreviations: DPP = Diabetes Prevention Program; and MESA = Multi-Ethnic Study of Atherosclerosis* | | |
| *1Baseline for Multi-Ethnic Study of Atherosclerosis participants was visit 1 or 2 dependent on pre-diabetes status* | | |

Table 1: Descriptive table of Diabetes Prevention Program and Multi-Ethnic Study of Atherosclerosis participants included in the current analysis

| **Characteristic** | **DPP, N = 2,640** | **MESA, N = 1,067** |
| --- | --- | --- |
| Age, years | 51 (11) | 64 (10) |
| Sex |  |  |
| Male | 864 (33%) | 579 (54%) |
| Female | 1,776 (67%) | 488 (46%) |
| Race/ethnicity |  |  |
| Non-Hispanic White | 1,626 (62%) | 326 (31%) |
| Non-Hispanic Black | 423 (16%) | 197 (18%) |
| Hispanic | 448 (17%) | 311 (29%) |
| Other/Chinese | 143 (5.4%) | 233 (22%) |
| Educational attainment |  |  |
| < High School | 1,352 (51%) | 196 (23%) |
| High School Graduate | 574 (22%) | 168 (20%) |
| Some College or College Graduate | 714 (27%) | 496 (58%) |
| Fasting glucose, mg/dl | 106 (7) | 107 (7) |
| Glycated Hemoglobin, % | 5.78 (0.40) | 5.99 (0.18) |
| HOMA-Insulin Resistance | 6.0 (4.2, 8.6) | --- |
| HOMA-Beta cell function | 199 (136, 272) | --- |
| Body mass index, kg/m2 | 34 (7) | 30 (6) |
| Triglycerides, mg/dl | 144 (101, 205) | 124 (88, 176) |
| Low-density lipoprotein cholesterol, mg/dl | 107 (27) | --- |
| High-density lipoprotein cholesterol, mg/dl | 46 (12) | --- |

Table 2: Descriptive table of Diabetes Prevention Program and Multi-Ethnic Study of Atherosclerosis participants excluded from the current analysis

| **Characteristic** | **DPP, N = 1,025** | **MESA, N = 9,565** |
| --- | --- | --- |
| Age, years | 52 (10) | 62 (10) |
| Sex |  |  |
| Male | 364 (36%) | 4,390 (46%) |
| Female | 661 (64%) | 5,175 (54%) |
| Race/ethnicity |  |  |
| Non-Hispanic White | 491 (48%) | 4,208 (44%) |
| Non-Hispanic Black | 328 (32%) | 1,716 (18%) |
| Hispanic | 161 (16%) | 2,130 (22%) |
| Other/Chinese | 45 (4.4%) | 1,511 (16%) |
| Educational attainment |  |  |
| < High School | 550 (54%) | 677 (14%) |
| High School Graduate | 186 (18%) | 837 (18%) |
| Some College or College Graduate | 289 (28%) | 3,241 (68%) |
| Fasting glucose, mg/dl | 110 (9) | 89 (8) |
| Glycated Hemoglobin, % | 6.23 (0.60) | 5.39 (0.37) |
| HOMA-Insulin Resistance | 6.7 (4.5, 9.1) | --- |
| HOMA-Beta cell function | 188 (130, 263) | --- |
| Body mass index, kg/m2 | 34.4 (6.8) | 27.7 (5.2) |
| Triglycerides, mg/dl | 133 (96, 194) | 107 (76, 153) |
| Low-density lipoprotein cholesterol, mg/dl | 108 (28) | --- |
| High-density lipoprotein cholesterol, mg/dl | 45 (12) | --- |

Table 3. Cumulative incidence of diabetes over follow-up in the Diabetes Prevention Program and Multi-Ethnic Study of Atherosclerosis

|  | **DPP** | **MESA** |
| --- | --- | --- |
| Over all follow-up time | | |
| Number at risk | 2,640 | 1,067 |
| Total follow-up time, person-years | 7,305 | 8,143 |
| Median (95% CI) follow-up time, years | 3.0 (3.0, 3.0) | 10 (9.5, 14) |
| Up to three years after baseline | | |
| Number of incident cases | 386 | 186 |
| Incidence rate, per 100 years | 5.9 | 6.4 |
| Cumulative incidence (95% CI), % | 17 (16, 19) | 18 (15, 20) |

Table 4.

| **Evaluation statistic** | **Internal Validation** | | **External Validation** | |
| --- | --- | --- | --- | --- |
| **Standard** | **Individualized** | **Standard** | **Individualized** |
| NRI | 0 (ref) | 2.1 (-2.2, 5.9) | 0 (ref) | -2.9 (-4.7, -1.1) |
| NRI+ | 0 (ref) | 0.11 (-3.7, 3.5) | 0 (ref) | 0.04 (-1.5, 1.7) |
| NRI- | 0 (ref) | 2.0 (0.50, 3.4) | 0 (ref) | -3.0 (-4.2, -1.8) |
| AUC | 69.5 (66.3 72.6) | 70.1 (66.9 73.2) | 78.7 (75.2 82.3) | 78.4 (74.9 82.0) |
| IPA | 9.6 | 10.0 | 14.8 | 14.8 |
| Race/ethnicity | | | | |
| Demographic parity | 91 | 86 | 89 | 91 |
| Equal opportunity | 89 | 90 | 91 | 97 |
| Equal odds | 89 | 86 | 91 | 92 |
| Sex | | | | |
| Demographic parity | 98 | 99 | 80 | 81 |
| Equal opportunity | 96 | 99 | 92 | 93 |
| Equal odds | 96 | 99 | 80 | 79 |