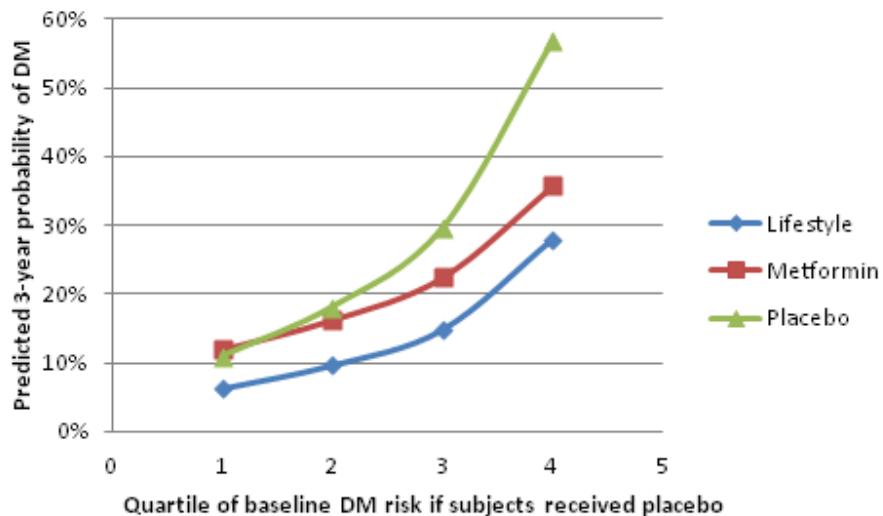
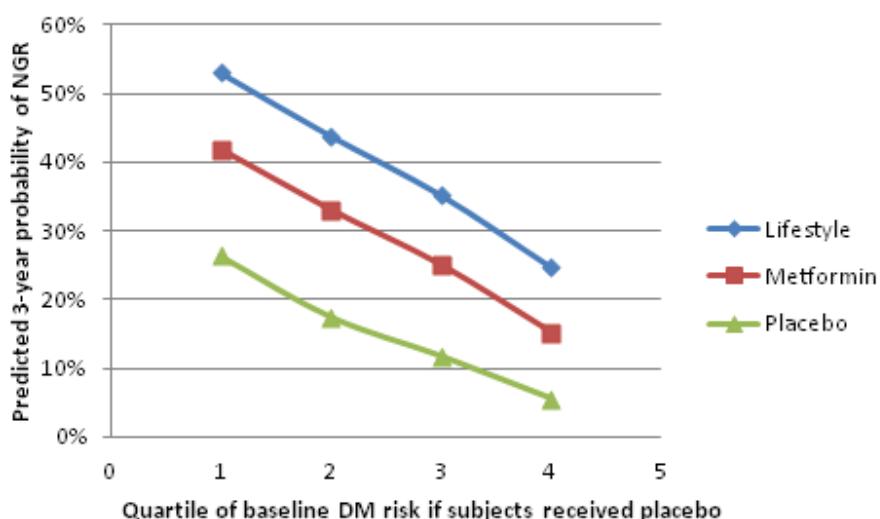


SUPPLEMENTARY DATA

Supplementary Figure 1a. Predicted 3-year probabilities of progressing to DM in all DPP participants regardless of adherence by quartile of risk of developing DM if participants had been assigned to the placebo intervention



Supplementary Figure 1b. Predicted 3-year probabilities of regressing to NGR in all DPP participants regardless of adherence by quartile of risk of developing DM if participants had been assigned to the placebo intervention



SUPPLEMENTARY DATA

Supplementary Table 1. Multivariable models predicting progression to diabetes for the entire DPP randomized population regardless of adherence

Baseline Predictors	Lifestyle	Hazard ratio (95% CI)	
		Metformin	Placebo
Age		1.014 (1.000 ,1.027)	
Sex and GDM status			
Female with no history of pregnancy vs. male			0.721 (0.443 ,1.172)
Female with history of pregnancy but no GDM vs. male			1.047 (0.794 ,1.380)
Female with history of GDM vs. male			1.538 (1.071 ,2.209)
College graduate vs. non-college graduate			1.315 (1.043 ,1.659)
Current smoking: Yes vs. No		1.585 (1.004 ,2.501)	
Physical activity more than 150 mins/week: Yes vs. No	1.293 (0.930 ,1.797)		
Polycystic ovarian disease: Yes vs. No		1.784 (0.875 ,3.637)	
Family history of diabetes: Yes vs. No		1.299 (0.960 ,1.757)	
BMI (kg/m ²)	1.052 (1.031 ,1.073)		1.020 (1.004 ,1.037)
Systolic blood pressure (mm Hg)			1.008 (0.999 ,1.016)
Fasting glucose (mg/dL)	1.072 (1.052 ,1.092)	1.059 (1.044 ,1.075)	1.089 (1.076 ,1.103)
Natural log-transformed triglyceride (mg/dL)	1.459 (1.075 ,1.979)	1.631 (1.245 ,2.135)	1.275 (1.006 ,1.617)
C-index	0.593	0.633	0.544
Calibration p-value for decile categories at year 3	0.391	0.231	0.392

SUPPLEMENTARY DATA

Supplementary Table 2. Formula for calculating probability of progression to DM at 3 years in the entire randomized DPP population regardless of adherence

Formulas	Probability(progression to DM) = 1- $S_0^{\exp(F(X))}$	
Treatment	S_0	$F(X)$
Lifestyle	0.893	$0.051 \times (\text{BMI}-34) + 0.069 \times (\text{fasting glucose}-107) + 0.378 \times (\log(\text{triglyceride})-5) + 0.257 \times \text{PA}$
Metformin	0.840	$0.014 \times (\text{Age}-51) + 0.261 \times \text{FH} + 0.057 \times (\text{fasting glucose}-107) + 0.489 \times (\log(\text{triglyceride})-5) + 0.461 \times \text{SM} + 0.579 \times \text{polycystic}$
Placebo	0.791	$-0.328 \times \text{FNP} + 0.046 \times \text{FP} + 0.431 \times \text{GDM} + 0.020 \times (\text{BMI}-34) + 0.086 \times (\text{fasting glucose}-107) + 0.008 \times (\text{SBP}-124) + 0.243 \times (\log(\text{triglyceride})-5) + 0.274 \times \text{CG}$

PA=1 if physical activity more than 150 min/wk; 0 otherwise

FH =1 if a subject has family history of diabetes; 0 otherwise

Polycystic =1 if a subject is female and has polycystic syndrome; 0 otherwise

SM=1 if a subject is a current smoker; 0 otherwise

CG=1 if a subject is a college graduate; 0 otherwise

FNP=1 if a subject is female and has never been pregnant; 0 otherwise

FP=1 if a subject is female and has been pregnant but no history of GDM; 0 otherwise

GDM=1 if a subject is female and has had GDM; 0 otherwise

S_0 : three-year survival probability for a participant with reference covariate pattern (continuous covariates equal the sample average and categorical covariates equal male or no)

SUPPLEMENTARY DATA

TRIPOD checklist

Section/Topic	Item	Checklist Item		Page
Title and abstract				
Title	1	D;V	Identify the study as developing and/or validating a multivariable prediction model, the target population, and the outcome to be predicted.	1
Abstract	2	D;V	Provide a summary of objectives, study design, setting, participants, sample size, predictors, outcome, statistical analysis, results, and conclusions.	3-4
Introduction				
Background and objectives	3a	D;V	Explain the medical context (including whether diagnostic or prognostic) and rationale for developing or validating the multivariable prediction model, including references to existing models.	5-6
	3b	D;V	Specify the objectives, including whether the study describes the development or validation of the model or both.	6-7
Methods				
Source of data	4a	D;V	Describe the study design or source of data (e.g., randomized trial, cohort, or registry data), separately for the development and validation data sets, if applicable.	Done
	4b	D;V	Specify the key study dates, including start of accrual; end of accrual; and, if applicable, end of follow-up.	Done
Participants	5a	D;V	Specify key elements of the study setting (e.g., primary care, secondary care, general population) including number and location of centres.	Done
	5b	D;V	Describe eligibility criteria for participants.	Done
	5c	D;V	Give details of treatments received, if relevant.	Done
Outcome	6a	D;V	Clearly define the outcome that is predicted by the prediction model, including how and when assessed.	Done
	6b	D;V	Report any actions to blind assessment of the outcome to be predicted.	
Predictors	7a	D;V	Clearly define all predictors used in developing the multivariable prediction model, including how and when they were measured.	Done
	7b	D;V	Report any actions to blind assessment of predictors for the outcome and other predictors.	8
Sample size	8	D;V	Explain how the study size was arrived at.	n/a
Missing data	9	D;V	Describe how missing data were handled (e.g., complete-case analysis, single imputation, multiple imputation) with details of any imputation method.	Done
Statistical analysis methods	10a	D	Describe how predictors were handled in the analyses.	Done
	10b	D	Specify type of model, all model-building procedures (including any predictor selection), and method for internal validation.	Done
	10c	V	For validation, describe how the predictions were calculated.	n/a
	10d	D;V	Specify all measures used to assess model performance and, if relevant, to compare multiple models.	Done
	10e	V	Describe any model updating (e.g., recalibration) arising from the validation, if done.	n/a
Risk groups	11	D;V	Provide details on how risk groups were created, if done.	n/a
Development vs. validation	12	V	For validation, identify any differences from the development data in setting, eligibility criteria, outcome, and predictors.	n/a
Results				
Participants	13a	D;V	Describe the flow of participants through the study, including the number of participants with and without the outcome and, if applicable, a summary of the follow-up time. A diagram may be helpful.	13
	13b	D;V	Describe the characteristics of the participants (basic demographics, clinical features, available predictors), including the number of participants with missing data for predictors and outcome.	13-14
	13c	V	For validation, show a comparison with the development data of the distribution of important variables (demographics, predictors and outcome).	n/a
Model development	14a	D	Specify the number of participants and outcome events in each analysis.	14
	14b	D	If done, report the unadjusted association between each candidate predictor and outcome.	Table 2 (15)
Model specification	15a	D	Present the full prediction model to allow predictions for individuals (i.e., all regression coefficients, and model intercept or baseline survival at a given time point).	16-17 (Table 3)
	15b	D	Explain how to use the prediction model.	16-18
Model performance	16	D;V	Report performance measures (with CIs) for the prediction model.	18-19
Model-updating	17	V	If done, report the results from any model updating (i.e., model specification, model performance).	n/a
Discussion				
Limitations	18	D;V	Discuss any limitations of the study (such as nonrepresentative sample, few events per predictor, missing data).	22-23
Interpretation	19a	V	For validation, discuss the results with reference to performance in the development data, and any other validation data.	n/a

SUPPLEMENTARY DATA

	19b	D;V	Give an overall interpretation of the results, considering objectives, limitations, results from similar studies, and other relevant evidence.	19-22
Implications	20	D;V	Discuss the potential clinical use of the model and implications for future research.	20-22
Other information				
Supplementary information	21	D;V	Provide information about the availability of supplementary resources, such as study protocol, Web calculator, and data sets.	10
Funding	22	D;V	Give the source of funding and the role of the funders for the present study.	7, 24

*Items relevant only to the development of a prediction model are denoted by D, items relating solely to a validation of a prediction model are denoted by V, and items relating to both are denoted D;V. We recommend using the TRIPOD Checklist in conjunction with the TRIPOD Explanation and Elaboration document.

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