

SUPPLEMENTARY DATA

**Supplementary Table 1.** Model assumptions for the assignment of treatments and estimated therapeutic and behavioral adherence rates in the ADDITION-Europe trial

Treatment	Intensive treatment	Routine care*
Glycemia: lifestyle→metformin→ combination oral therapy→ basal insulin→ basal-plus-bolus insulin:	Threshold for intensifying treatment was HbA1c $\geq 6.5$ (48 mmol/mol) with a practitioner rate of concordance with the guideline of 100%.	Threshold for intensifying treatment was HbA1c $\geq 6.5$ (48 mmol/mol) with an adherence rate of 90%.
Hypertension: ACE-I or ARB is started or intensified (by increasing dose):	Threshold for starting and intensifying treatment was SBP $\geq 135$ with an adherence rate of 70%. When there was a stroke, MI, CHF or revascularization procedure, the adherence rate was 90%.	Threshold for initiating or intensifying treatment was SBP $\geq 135$ with an adherence rate of 70%. When there was a stroke, MI, CHF or revascularization procedure, the adherence rate was 90%.
Beta-blocker is started:	When there was a stroke, MI, CHF, or revascularization procedure, the adherence rate was 90%.	When there was a stroke, MI, CHF, or revascularization procedure, the adherence rate was 90%.
Dyslipidemia: Statin is started or intensified (by increasing dose):	Threshold for starting and intensifying treatment was total cholesterol $\geq 3.5$ with an adherence rate of 80%. When there was a stroke, MI, CHF, or revascularization procedure, the adherence rate was 90%.	Threshold for starting and intensifying treatment was total cholesterol $\geq 3.5$ with an adherence rate of 75%. When there was a stroke, MI, CHF, or revascularization procedure, the adherence rate was 90%.
Aspirin: recommended for all	Adherence rate was 60%. In the remaining 40%, when there was a stroke, MI, CHF, or revascularization procedure the adherence rate was 90%, and when there was angina the adherence rate was 50%.	Adherence rate was 30%. In the remaining 70%, when there was a stroke, MI, CHF, or revascularization procedure the adherence rate was 90%, and when there was angina the adherence rate was 50%.
Smoking cessation: Recommended for all smokers	Among the current smokers, when there was a stroke, MI, CHF, or revascularization procedure the adherence rate was 100% and when there was angina the adherence rate was 50%. Among the remaining smokers, 5% quit smoking each year.	Among the current smokers, when there was a stroke, MI, CHF, or revascularization procedure the adherence rate was 100% and when there was angina the adherence rate was 50%. Among the remaining smokers, 7% quit smoking each year.

\* 3-Year Delay in Diagnosis: Simulated as routine care except that treatment was initiated only if there was a cardiovascular event or in the fourth year, whichever occurred first.

6-Year Delay in Diagnosis: Simulated as routine care except that treatment was initiated only if there was a cardiovascular event or in the seventh year, whichever occurred first.