

**Supplementary Table 1.** Univariable and multivariable analysis to evaluate associated factors with probability of glycemic progression based on FP2 criterion

Variable	Univariable analysis		Multivariable analysis									
	Hazard ratio (95% CI)	P-value	Model 1		Model 2		Model 3		Model 4		Model 5	
			Hazard ratio (95% CI)	P-value	Hazard ratio (95% CI)	P-value	Hazard ratio	P-value	Hazard ratio	P-value	Hazard ratio	P-value
Group 2 (reference)												
Group 1 <sup>a)</sup>	2.46 (1.29–4.67)	0.006	0.42	0.010	0.53	0.059	0.61	0.141	0.50	0.042	0.48	0.031
Group 3 <sup>b)</sup>	6.38 (3.98–10.23)	<0.001	2.42	0.004	2.43	0.004	2.71	0.001	1.96	0.034	1.85	0.053
Group 4 <sup>c)</sup>	12.94 (8.68–19.30)	<0.001	5.09	<0.001	4.32	<0.001	4.46	<0.001	2.99	<0.001	2.80	<0.001
Sex	0.592 (0.455–0.770)	<0.001	0.96	0.778	1.21	0.362	1.21	0.362	1.16	0.472	0.78	0.290
Age	1.031 (1.020–1.042)	<0.001	1.01	0.032	1.01	0.027	1.02	0.021	0.99	0.156	0.99	0.262
Weight (kg)	1.048 (1.039–1.058)	<0.001	–	–	1.01	0.592	1.00	0.764	0.98	0.222	0.99	0.430
BMI (kg/m <sup>2</sup> )	1.221 (1.184–1.259)	<0.001	–	–	1.04	0.346	1.06	0.209	1.10	0.045	1.08	0.085
Waist (cm)	1.081 (1.068–1.094)	<0.001	–	–	1.02	0.291	1.01	0.523	1.01	0.742	1.00	0.877
SBP (mm Hg)	1.038 (1.029–1.046)	<0.001	–	–	–	–	–	–	–	–	1.00	0.858
DBP (mm Hg)	1.043 (1.033–1.054)	<0.001	–	–	–	–	–	–	–	–	1.01	0.411
GLC	1.063 (1.056–1.070)	<0.001	–	–	–	–	–	–	1.05	<0.001	1.04	<0.001
HbA1c	9.993 (7.169–13.929)	<0.001	–	–	–	–	–	–	2.12	<0.001	2.19	<0.001
TG (mg/dL)	1.005 (1.004–1.006)	<0.001	–	–	–	–	1.00	0.011	1.00	0.210	1.00	0.438
Cr (mg/dL)	0.605 (0.300–1.218)	0.159	–	–	–	–	–	–	–	–	0.20	0.002
BUN (mg/dL)	1.046 (1.015–1.079)	0.003	–	–	–	–	–	–	–	–	1.01	0.714
LDL level	1.004 (1.000–1.007)	0.046	–	–	–	–	1.00	0.783	1.00	0.548	1.00	0.554
HDL level	0.965 (0.953–0.977)	<0.001	–	–	–	–	1.00	0.823	1.00	0.731	1.00	0.651
Total cholesterol	1.006 (1.003–1.009)	<0.001	–	–	–	–	1.00	0.838	1.00	0.542	1.00	0.551
Metabolic syndrome	7.156 (5.579–9.179)	<0.001	–	–	–	–	–	–	–	–	0.48	0.031

FP2 (fatty pancreas 2) criterion, normal and mild HP vs. moderate and severe HP.

Model 1=Adjusted for each group, age and sex; Model 2=Adjusted for each group, age, sex, weight, BMI, and waist.

Model 3=Adjusted for each group, age, sex, weight, BMI, waist, TG, LDL, HDL, and total cholesterol; Model 4=Adjusted for each group, age, sex, weight, BMI, waist, TG, LDL, HDL, total cholesterol, fasting blood glucose, and HbA1c; Model 5=Fully adjusted model, adjusted for each group, age, sex, weight, BMI, waist, SBP, DBP, TG, Cr, BUN, LDL, HDL, total cholesterol, fasting blood glucose, and HbA1c.

CI, confidence interval; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; GLC, fasting blood glucose; HbA1c, plasma hemoglobin A1c; TG, triglyceride; Cr, creatinine; BUN, blood urea nitrogen; LDL, low density lipoprotein; HDL, high density lipoprotein; NAFLD, nonalcoholic fatty liver disease; HP, hyperechoic pancreas.

<sup>a)</sup>Isolated NAFLD. <sup>b)</sup>Isolated HP. <sup>c)</sup>NAFLD and HP.