

Supplementary Tables SI. Additive interactions between LDH and DKD in T1DM

Additive interactions	
RERI(95% CI)	5.40 (-1.16, 11.77)
AP(95% CI)	0.69 (0.38, 0.99)
SI(95% CI)	4.72 (1.05, 21.32)

adjust for Age, sex, BMI, Duration of diabetes, HTN, HB, ALB, ALT, SCr, UA, TC, TG, CRP, and HBA1c.

Supplementary Tables SII. Multivariable regression analysis of the relationship between LDH with T1DKD

	Model1		Model2		Model3	
	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value
LDH	1.14 (1.09~1.19)	< 0.001	1.09 (1.02~1.17)	0.011	1.11 (0.99~1.25)	0.066
LDH tertile						
< 160 U/L	1 (Ref)		1 (Ref)		1 (Ref)	
160–203 U/l	1.41 (0.8~2.47)	0.235	1.82 (0.76~4.36)	0.177	1.83 (0.61~5.53)	0.281
203–506 U/l	5.77 (3.28~10.15)	< 0.001	5.34 (2.17~13.16)	< 0.001	4.21 (1.23~14.46)	0.022
P for trend		< 0.001		< 0.001		0.024

LDH was entered as a continuous variable per 10 U/l increase. Model 1: unadjusted; Model 2: adjust for age, sex, BMI, Duration of diabetes and HTN; Model 3: adjust for Age, sex, BMI, Duration of diabetes, HTN, HB, ALB, ALT, SCr, UA, TC, TG, CRP, and HBA1c.

Supplementary Table SIII. Variance inflation factors (VIFs)

Variable	VIF
Age	1.72
sex	1.68
BMI	1.27
duration	1.61
HTN	1.28
HB	1.61
ALB	1.33
ALT	1.42
Scr	1.96
UA	1.45
TC	1.78
TG	1.72
CRP	1.15
HBA1c	1.78

All VIFs < 4.0 indicate absence of severe multicollinearity.

Supplementary Table SIV. LASSO-Penalized Logistic Regression Coefficients

Variable	$\lambda_{\min}$ (0.015) Coef	λ_{1se} (0.050) Coef
Age	NA	NA
Sex	0.559	0.072
BMI	0.007	NA

Variable	$\lambda_{\min}$ (0.015) Coef	λ_{1se} (0.050) Coef
Duration_month	0.004	0.003
Hypertension	1.094	0.878
HB	-0.010	-0.008
ALB	-0.079	-0.055
ALT	NA	NA
Scr	0.003	0.001
UA	0.001	NA
TC	0.084	0.018
TG	0.121	0.064
CRP	0.010	0.004
HBA1c	-0.025	NA

Note: "NA" indicates coefficient shrunk to zero. $\lambda_{\min}$ = tuning parameter at minimum cross-validation error; λ_{1se} = largest λ within 1 standard error of the minimum.