Supplementary Table 1. Key results of RCS regression analysis on the interaction between depression scores and diabetes in NHANES and CHARLS cohorts

Variable	Cohort	Estimate	Std. Error	z value	p
DM	NHANES	0.891	0.260	3.422	0.001
CHARLS	CHARLS	0.503	0.173	2.902	0.004
PHQ-9 (RCS linear, 3 knots)	NHANES	0.412	0.215	1.918	0.055
PHQ-9 (RCS quadratic, 3 knots)	NHANES	-0.778	0.420	-1.853	0.064
CES-D-10 (RCS linear, 3 knots)	CHARLS	0.080	0.046	1.729	0.084
DM×PHQ-9 (RCS linear)	NHANES	-0.355	0.144	-2.466	0.014
DM×PHQ-9 (RCS quadratic)	NHANES	0.748	0.280	2.670	0.008
DM×CES-D-10 (RCS linear)	CHARLS	-0.001	0.035	-0.023	0.982
DM×CES-D-10 (RCS quadratic)	CHARLS	0.026	0.059	0.443	0.658

RCS, restricted cubic spline; NHANES, National Health and Nutrition Examination Survey; CHARLS, China Health and Retirement Longitudinal Study; DM, diabetes mellitus; PHQ-9, Patient Health Questionnaire-9; CES-D-10, 10-item Centre for Epidemiological Studies Depression Scale.