Supplemental material

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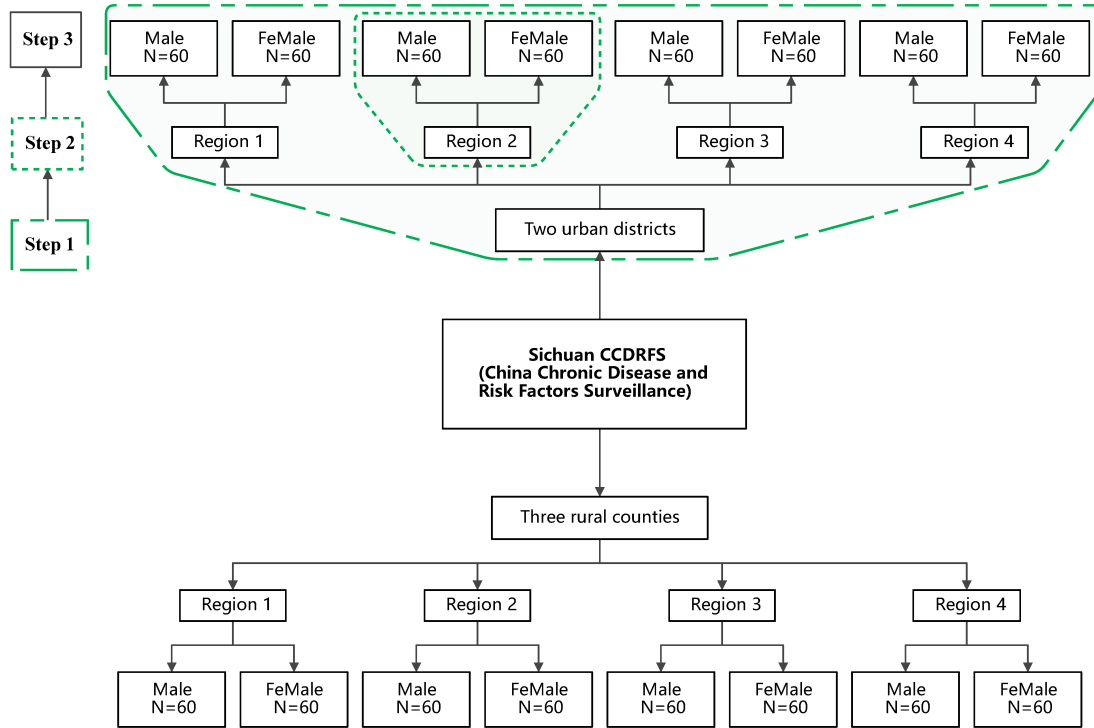
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Online supplemental figure 1

Flow chart of sampling

Online supplemental table 1

Univariate Logistic Regression analysis for factors associated with HbA1c level <7%

Independent variable (reference group)	β	Standard Error	Wald Chi-Square	p
Socioeconomic and demographic factors				
Urban areas (ref: rural areas)	0.73	0.09	64.35	<.001
Sex (ref: male)	0.19	0.09	4.51	0.034
Age at diabetes diagnosis	0.02	0.00	17.89	<.001
Duration of diabetes	-0.06	0.01	17.70	<.001
Insurance type, UEI group (ref: URI and NCMS group)	0.82	0.10	71.24	<.001
Monthly household income per capita (1000 RMB)	0.08	0.03	6.59	0.010
Receiving HbAlc blood test every 3 months (ref: not received)	0.44	0.10	20.44	<.001
Education level				
Middle school education (ref: High school level or higher)	-0.54	0.12	18.99	<.001
Primary school education and below (ref: High school level or higher)	-0.71	0.11	38.67	<.001
Family history of diabetes (ref: no history)	-0.14	0.09	2.31	0.129
Self-management of diabetes				
Monitor blood sugar at home (ref: not at home)	0.22	0.09	5.95	0.015
Exercise 30 minutes ≥1 day per week (ref: unreached)	0.66	0.09	52.73	<.001
Follow diet advice of doctors ≥1 day per week (ref: unreached)	0.56	0.11	26.73	<.001
Vegetables and fruit intake <400 grams per day (ref: higher intake)	-0.43	0.09	22.93	<.001
Smoke currently (ref: not currently)	-0.33	0.10	9.85	0.002
Physiological indicators				
SBP reaching the target value (ref: unreached)	0.25	0.09	7.71	0.006
DBP reaching the target value (ref: unreached)	0.15	0.10	2.46	0.117
TC reaching the target value (ref: unreached)	0.59	0.10	37.08	<.001
TG reaching the target value (ref: unreached)	0.28	0.09	9.85	0.002
HDLC reaching the target value (ref: unreached)	0.07	0.10	0.48	0.486
LDLC reaching the target value (ref: unreached)	0.32	0.09	12.23	0.001
BMI/Weight reaching the target value (ref: unreached)	-0.04	0.09	0.21	0.646

Online supplemental table 2

The distribution of previously diagnosed and newly identified DR in different subgroups

		Total (No.)	Previously diagnosed DR		Newly identified DR (No.)	Awareness rate of DR (%)
			(No.)	Treat rate (%)		
Living place	City	134	73	36.99	61	54.48
	Rural	297	71	12.68	226	23.91
Gender	Female	239	86	24.42	153	35.98
	Male	192	58	25.86	134	30.21
Insurance	UEI	74	32	40.63	42	43.24
	URI or NCMS	348	109	20.18	239	31.32
Test HbAlc every 3 months	Yes	120	57	24.56	63	47.5
	No	311	87	25.29	224	27.97
Monitor blood sugar at home	Yes	212	78	35.9	134	36.79
	No	219	66	12.12	153	30.14
Total		431	144	25	287	33.41