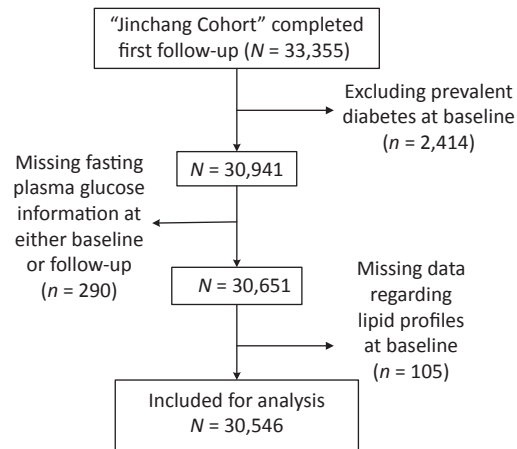
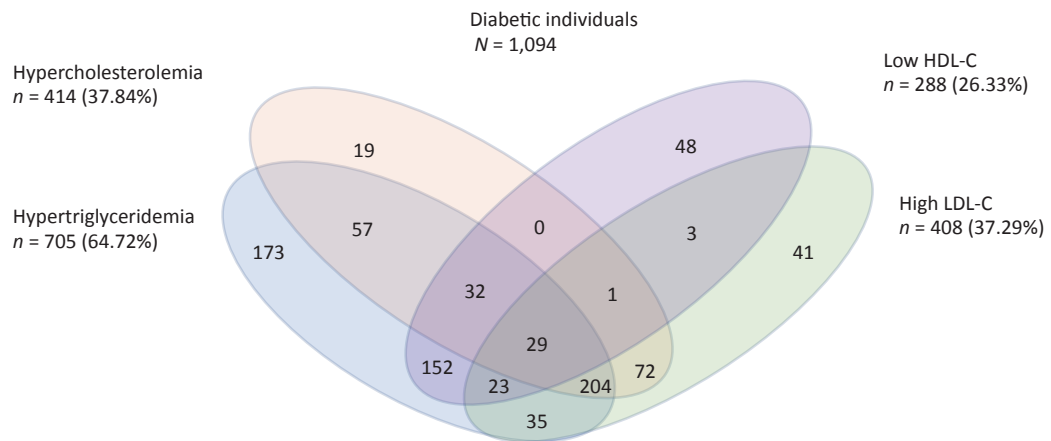


Supplementary Table S1. Baseline characteristics of new onset T2DM and non-T2DM participants

| Characteristics | T2DM (n = 1,094) | Non-T2DM (n = 29,452) | t/ χ^2 values | P values |
|--|-------------------|-----------------------|--------------------|----------|
| Gender (n, %) | | | | |
| Male | 766 (70.02) | 17,542 (59.56) | 48.034 | < 0.001 |
| Female | 328 (29.98) | 11,910 (40.44) | | |
| Age (years) | 54.78 \pm 12.21 | 45.25 \pm 12.38 | -25.325 | < 0.001 |
| Education level (n, %) | | | | |
| Junior high school and below | 622 (56.86) | 10,409 (35.34) | 241.370 | < 0.001 |
| High school | 280 (25.59) | 8,387 (28.48) | | |
| Undergraduate and above | 192 (17.55) | 10,656 (36.18) | | |
| Work type (n, %) | | | | |
| Management | 120 (11.97) | 3,845 (13.06) | 70.731 | < 0.001 |
| Technicians | 40 (3.66) | 1,402 (4.76) | | |
| Services | 104 (9.51) | 1,265 (4.30) | | |
| Workers | 830 (75.87) | 22,940 (77.89) | | |
| Family income (yuan) (n, %) | | | | |
| < 2,000 | 618 (56.49) | 15,049 (51.10) | 12.281 | < 0.001 |
| 2,000– | 476 (43.51) | 14,403 (48.90) | | |
| Marital status (n, %) | | | | |
| Married | 981 (89.67) | 25,310 (85.94) | 12.270 | < 0.001 |
| Others | 113 (10.33) | 4,142 (14.06) | | |
| BMI (kg/m ² , $\bar{X} \pm S$) | 25.68 \pm 3.23 | 23.32 \pm 3.20 | -23.704 | 0.563 |
| Smokers (n, %) | 593 (54.20) | 12,875 (43.72) | 47.083 | < 0.001 |
| Drinkers (n, %) | 324 (29.62) | 6,552 (22.25) | 32.844 | < 0.001 |
| Physical exercise (n, %) | | | | |
| Never | 101 (9.23) | 3,301 (11.21) | 45.963 | < 0.001 |
| Occasionally | 376 (34.37) | 12,605 (42.80) | | |
| Often | 617 (56.40) | 13,546 (45.99) | | |
| Dietary salt intake level (n, %) | | | | |
| Higher | 277 (25.32) | 6,513 (22.11) | 13.433 | 0.001 |
| Moderate | 503 (46.00) | 15,719 (51.54) | | |
| Lower | 314 (28.70) | 7,760 (26.35) | | |
| Dietary oil intake level (n, %) | | | | |
| Higher | 248 (22.70) | 5,490 (18.64) | 24.158 | < 0.001 |
| Moderate | 557 (50.91) | 17,171 (58.30) | | |
| Lower | 289 (26.42) | 6,791 (23.06) | | |
| Dietary sugar intake level (n, %) | | | | |
| Higher | 190 (17.37) | 6,123 (20.79) | 80.745 | < 0.001 |
| Moderate | 310 (28.34) | 11,309 (38.40) | | |
| Lower | 594 (54.30) | 12,020 (48.81) | | |
| Family history of DM (n, %) | 189 (17.28) | 4,241 (14.40) | 7.038 | 0.008 |
| Hypertension (n, %) | 584 (53.82) | 7,458 (25.57) | 427.944 | < 0.001 |
| FPG (mmol/L, $\bar{X} \pm S$) | 5.98 \pm 0.62 | 5.03 \pm 0.54 | -50.221 | < 0.001 |
| TC (mmol/L, $\bar{X} \pm S$) | 4.90 \pm 0.96 | 4.68 \pm 0.88 | -8.056 | < 0.001 |
| TG (mmol/L, $\bar{X} \pm S$) | 2.52 \pm 1.87 | 1.88 \pm 1.46 | -11.067 | < 0.001 |
| HDL-C (mmol/L, $\bar{X} \pm S$) | 1.26 \pm 0.32 | 1.38 \pm 0.35 | 12.020 | < 0.001 |
| LDL-C (mmol/L, $\bar{X} \pm S$) | 3.17 \pm 0.78 | 3.04 \pm 0.74 | -23.074 | 0.046 |



Supplementary Figure S1. Flow diagram of participant selection.



Supplementary Figure S2. Venn diagram showing the overlapping of the individual components of dyslipidemia at baseline among newly onset T2DM patients.