Supplement table 1 The partial correlation analysis between estimated pancreatic fat or liver fat and clinical parameters reflects islet function (controlling for sex, age, BMI and HOMA-IR).

| Variables | Estimated pancreatic fat by QCT | P | Estimated liver fat by QCT | P |
|-----------|---------------------------------|---|----------------------------|---|
| AUC<sub>FPG</sub> | 0.022 | 0.838 | -0.045 | 0.681 |
| AUC<sub>INS</sub> | 0.095 | 0.385 | 0.289 | 0.007 |
| MBCI | 0.02 | 0.858 | 0.2 | 0.066 |
| △I/△G | -0.022 | 0.842 | -0.16 | 0.143 |
| HOMA-β | 0.141 | 0.199 | 0.237 | 0.029 |

AUC<sub>FPG</sub>, AUC for plasma glucose; AUC<sub>INS</sub>, AUC for insulin; MBCI, modified β-cell function index; I, insulin; G, glucose; HOMA-β, homeostatic model assessment β.
Supplement table 2 The partial correlation analysis between estimated pancreatic fat or liver fat and clinical parameters reflects islet function (controlling for sex, age, BMI and WC).

| Variables          | Estimated pancreatic fat by QCT | Estimated liver fat by QCT |
|--------------------|---------------------------------|---------------------------|
|                    | r  | P     | r  | P  |
| AUC<sub>PG</sub>   | -0.024 | 0.874 | -0.088 | 0.552 |
| AUC<sub>INS</sub>  | 0.058 | 0.696 | 0.31 | 0.032 |
| MBCI               | -0.033 | 0.826 | -0.087 | 0.559 |
| ΔI/ΔG              | -0.136 | 0.355 | -0.03 | 0.84 |
| HOMA-β             | 0.098 | 0.508 | 0.247 | 0.009 |

<sup>AUC<sub>PG</sub>, AUC for plasma glucose; AUC<sub>INS</sub>, AUC for insulin; MBCI, modified β-cell function index; I, insulin; G, glucose; HOMA-β, homeostatic model assessment β.</sup>
