

SUPPLEMENTARY DATA

**Supplementary Table 1.** correlates of cardiac and liver fractional and net dietary fatty acid uptake

	<b>Fractionalheartuptake</b>	<b>Fractionalliveruptake</b>
<b>IGT (IGT+ = 1)</b>	0.61***	0.17
<b>Gender (M = 0; F = 1)</b>	0.34	0.45*
<b>Age</b>	0.20	-0.11
<b>BMI</b>	0.06	0.14
<b>Waistcircumference</b>	-0.02	-0.06
<b>HOMA-IR</b>	0.45*	0.08
<b>Fasting glucose</b>	0.14	-0.21
<b>Fastinginsulin</b>	0.45*	0.08
<b>Fasting NEFA</b>	0.28	0.23
<b>Fasting TG</b>	-0.14	-0.41*
<b>Liver radio-density</b>	0.11	0.05
<b>Stroke volume</b>	-0.58**	-0.34
<b>Leftventricularejection fraction</b>	-0.25	0,07
<b>Heart rate</b>	0.27	0.23
<b>Systolicblood pressure</b>	-0.06	-0.14
<b>Diastolicblood pressure</b>	-0.23	-0.10
<b>Cardiac output</b>	-0.57**	-0.29
<b>Left ventricular peak filling rate</b>	0.20	0.23
<b>Initial left ventricular mean filling rate</b>	-0.47*	-0.29
<b>Time-to-peak filling rate</b>	0.66**	0.20
<b>Rate pressure product</b>	0.16	0.12
<b>Myocardialblood flow index</b>	0.36	0.36
<b>Myocardialoxidative index</b>	0.64***	0.50**

\*P < 0.05; \*\*P < 0.01; \*\*\*P < 0.001. BMI: body mass index; HOMA-IR: homeostasis assessment model insulin resistance index; IGT: impaired glucose tolerance.

SUPPLEMENTARY DATA

**Supplementary Table 2.** Characteristics of the participants with exclusion of some participants to better match for gender and age – Mean (SEM)

	<b>IGT-</b>	<b>IGT+</b>	<b>P</b>
Age (yr)	50 (3)	54 (3)	0.25
Gender (M:F)	4:5	4:5	-
Weight (kg)	82.4 (6.6)	90.8 (4.4)	0.11
BMI (kg/m <sup>2</sup> )	28.1 (1.4)	31.4 (1.0)	0.08
Waist (cm)	89.3 (5.2)	103.2 (2.5)	0.04
<b>Dietary fatty acid partitioning</b>			
Heart (mean SUV)	1.30 (0.24)	2.13 (0.21)	0.03
Liver (mean SUV)	3.18 (0.56)	3.57 (0.47)	0.67
Visceral adipose tissue (mean SUV)	0.38 (0.07)	0.17 (0.03)	0.01
SC abdominal adipose tissue (mean SUV)	0.25 (0.05)	0.11 (0.02)	0.08
SC thigh adipose tissue (mean SUV)	0.10 (0.03)	0.07 (0.02)	0.51
Skeletal muscle (mean SUV)	0.23 (0.06)	0.27 (0.05)	0.54
<b>Fractional chylomicron-fatty acid uptake</b>			
Early myocardial fractional uptake (min <sup>-1</sup> )	0.022 (0.008)	0.066 (0.013)	0.008
Early liver fractional uptake (min <sup>-1</sup> )	0.035 (0.014)	0.077 (0.027)	0.14

*P* values are from Mann Whitney test.