

## SUPPLEMENTARY DATA

**Supplementary Table 1.** Baseline characteristics and OGTT-derived indices by BMI, in previously non-diabetic kidney transplant recipients  $\geq 6$  months post-transplantation (Stable KTRs) at MUV, grouped by OGTT outcome, and compared to the non-transplant population (Non-KTRs) at VGH

	<140 mg/dL			140-199 mg/dL			$\geq 200$ mg/dL		
	Stable KTRs	Non-KTRs	p*	Stable KTRs	Non-KTRs	p*	Stable KTRs	Non-KTRs	p*
<b>BMI <math>\geq 30</math></b>									
<b>No. of patients</b>	10	153		3	86		6	47	
<b>Age</b>	57.2 $\pm$ 11.3	51.4 $\pm$ 12.1	0.15	64.1 $\pm$ 10.3	58.0 $\pm$ 9.2	0.26	59.3 $\pm$ 10.2	58.3 $\pm$ 10.1	0.83
<b>Male sex [%]</b>	70.0	46.4	0.20**	33.3	51.2	0.62**	50.0	42.6	1.00**
<b>BMI</b>	31.9 $\pm$ 1.3	33.7 $\pm$ 4.2	<b>0.003</b>	33.8 $\pm$ 1.9	33.0 $\pm$ 3.1	0.64	34.0 $\pm$ 4.4	33.7 $\pm$ 3.5	0.88
<b>HbA1c</b>	5.7 $\pm$ 0.4	5.3 $\pm$ 0.6	0.06	6.2 $\pm$ 0.3	5.6 $\pm$ 0.7	0.11	6.0 $\pm$ 0.9	5.9 $\pm$ 0.9	0.82
<b>Glucose (0h)</b>	94 $\pm$ 6	105 $\pm$ 15	<0.001	106 $\pm$ 28	119 $\pm$ 15	0.16	118 $\pm$ 25	132 $\pm$ 19	0.11
<b>Glucose (2h)</b>	115 $\pm$ 15	101 $\pm$ 24	0.08	163 $\pm$ 18	163 $\pm$ 17	0.99	229 $\pm$ 28	239 $\pm$ 44	0.59
<b>Insulin (0h)</b>	14.0 $\pm$ 9.8	15.1 $\pm$ 13.0	0.80	5.3 $\pm$ 3.4	17.4 $\pm$ 12.4	0.10	9.9 $\pm$ 3.7	18.8 $\pm$ 8.9	<b>0.020</b>
<b>Insulin (AUC)</b>	6.1 $\pm$ 2.5	7.9 $\pm$ 4.8	0.07	6.8 $\pm$ 2.6	9.0 $\pm$ 4.5	0.41	4.4 $\pm$ 2.4	8.0 $\pm$ 3.8	<b>0.031</b>
<b>IGI</b>	0.085 $\pm$ 0.047	0.090 $\pm$ 0.194	0.83	0.088 $\pm$ 0.072	0.055 $\pm$ 0.037	0.15	0.028 $\pm$ 0.022	0.037 $\pm$ 0.025	0.46
<b>OGIS</b>	406 $\pm$ 31	319 $\pm$ 55	<0.001	357 $\pm$ 36	281 $\pm$ 43	<b>0.003</b>	334 $\pm$ 52	271 $\pm$ 36	<0.001
<b>QUICKI</b>	0.41 $\pm$ 0.07	0.38 $\pm$ 0.04	0.32	0.46 $\pm$ 0.04	0.37 $\pm$ 0.04	<0.001	0.39 $\pm$ 0.04	0.35 $\pm$ 0.03	<0.001
<b>BMI &lt;30</b>									
<b>No. of patients</b>	45	662		31	252		10	157	
<b>Age</b>	46.1 $\pm$ 13.7	51.4 $\pm$ 13.2	<b>0.009</b>	61.4 $\pm$ 11.9	56.8 $\pm$ 11.5	<b>0.038</b>	64.5 $\pm$ 11.0	60.7 $\pm$ 10.7	<0.001
<b>Male sex [%]</b>	55.6	63.6	0.28	77.4	61.1	0.08**	70.0	67.5	1.00**
<b>BMI</b>	23.2 $\pm$ 3.4	25.3 $\pm$ 2.7	<0.001	23.9 $\pm$ 2.9	25.6 $\pm$ 2.5	<0.001	24.5 $\pm$ 3.8	25.9 $\pm$ 2.6	0.29
<b>HbA1c</b>	5.5 $\pm$ 0.5	5.3 $\pm$ 0.7	<b>0.005</b>	5.9 $\pm$ 0.6	5.6 $\pm$ 0.7	<b>0.021</b>	6.4 $\pm$ 0.9	5.9 $\pm$ 0.9	0.11
<b>Glucose (0h)</b>	88 $\pm$ 10	103 $\pm$ 16	<0.001	98 $\pm$ 13	117 $\pm$ 15	<0.001	110 $\pm$ 21	131 $\pm$ 19	<0.001
<b>Glucose (2h)</b>	106 $\pm$ 25	98 $\pm$ 23	<b>0.028</b>	165 $\pm$ 17	165 $\pm$ 16	0.98	242 $\pm$ 46	252 $\pm$ 46	0.51
<b>Insulin (0h)</b>	5.9 $\pm$ 3.3	9.5 $\pm$ 5.2	<0.001	8.9 $\pm$ 7.1	10.3 $\pm$ 4.3	0.31	5.9 $\pm$ 4.9	12.9 $\pm$ 8.7	<b>0.012</b>
<b>Insulin (AUC)</b>	4.5 $\pm$ 2.4	5.6 $\pm$ 3.0	<b>0.022</b>	5.5 $\pm$ 3.2	6.1 $\pm$ 3.1	0.37	2.8 $\pm$ 1.4	5.6 $\pm$ 3.1	<0.001
<b>IGI</b>	<b>0.081<math>\pm</math>0.056</b>	<b>0.059<math>\pm</math>0.074</b>	<b>0.021</b>	0.065 $\pm$ 0.087	0.033 $\pm$ 0.025	0.06	0.019 $\pm$ 0.011	0.024 $\pm$ 0.019	0.41
<b>OGIS</b>	455 $\pm$ 65	337 $\pm$ 51	<0.001	<b>391<math>\pm</math>53</b>	<b>300<math>\pm</math>42</b>	<0.001	378 $\pm$ 52	286 $\pm$ 44	<0.001
<b>QUICKI</b>	0.47 $\pm$ 0.06	0.41 $\pm$ 0.04	<0.001	<b>0.44<math>\pm</math>0.07</b>	<b>0.39<math>\pm</math>0.03</b>	<b>0.001</b>	0.46 $\pm$ 0.07	0.38 $\pm$ 0.03	<b>0.005</b>

\*Stable KTRs versus Non-KTRs; \*\*Fisher's exact test. Boldface numbers indicate findings with p<0.05.

Abbreviations and units: BMI=body mass index [ $\text{kg}/\text{m}^2$ ]; HbA1c=glycated hemoglobin [rel. %]; 2h=two hours; AUC=area under the curve (for insulin: [ $\text{mU}/\text{mL}$  2h]); IGI=insulinogenic index [ $\text{nmol}$  insulin/ $\text{mmol}$  glucose]; OGIS=oral glucose insulin sensitivity [ $\text{mL}/\text{min}$   $\text{m}^2$ ]; QUICKI=quantitative insulin sensitivity check index [unitless].

## SUPPLEMENTARY DATA

**Supplementary Table 2.** Estimates for OGTT-derived indices in previously non-diabetic kidney transplant recipients  $\geq 6$  months post-transplantation (Stable KTRs) at MUV, compared to the non-transplant population (Non-KTRs) at VGH

		Stable KTRs versus Non-KTRs			
		Unadjusted		Adjusted*	
		Estimate	95% CI	Estimate	95% CI
AUC insulin	2-hour glucose <140 mg/dL	<b>-1.19</b>	(-2.16,-0.23)	-0.56	(-1.46,0.35)
	2-hour glucose 140-199 mg/dL	-0.78	(-2.02,0.47)	-0.05	(-1.22,1.13)
	2-hour glucose $\geq 200$ mg/dL	<b>-2.74</b>	(-4.55,-0.94)	<b>-2.87</b>	(-4.55,-1.19)
IGI	2-hour glucose <140 mg/dL	0.01	(-0.01,0.04)	0.02	(-0.01,0.04)
	2-hour glucose 140-199 mg/dL	0.03	(0.00,0.06)	<b>0.04</b>	(0.01,0.07)
	2-hour glucose $\geq 200$ mg/dL	0.00	(-0.05,0.04)	0.00	(-0.05,0.04)
OGIS	2-hour glucose <140 mg/dL	<b>112.45</b>	(98.90,126.00)	<b>103.56</b>	(90.61,116.52)
	2-hour glucose 140-199 mg/dL	<b>93.30</b>	(75.81,110.79)	<b>90.63</b>	(73.89,107.37)
	2-hour glucose $\geq 200$ mg/dL	<b>79.27</b>	(54.05,104.50)	<b>82.17</b>	(58.19,106.16)
QUICKI	2-hour glucose <140 mg/dL	<b>0.05</b>	(0.04,0.06)	<b>0.04</b>	(0.03,0.05)
	2-hour glucose 140-199 mg/dL	<b>0.05</b>	(0.04,0.06)	<b>0.04</b>	(0.03,0.05)
	2-hour glucose $\geq 200$ mg/dL	<b>0.07</b>	(0.04,0.09)	<b>0.07</b>	(0.05,0.09)

Subject Ns are the same as for stable KTRs and Non-KTRs in Table 3. Each outcome was regressed on glucose category, transplant status, and an interaction term to produce estimates in each glucose stratum, both unadjusted and \*adjusted for age, sex, and body mass index. Boldface numbers indicate findings with  $p<0.05$ . Abbreviations and units: AUC=area under the curve (for insulin: [mU/mL 2h]); IGI=insulinogenic index [nmol insulin/mmol glucose]; OGIS=oral glucose insulin sensitivity [mL/min m<sup>2</sup>]; QUICKI=quantitative insulin sensitivity check index [unitless].