

Supplemental Table S1. Physiological parameters.

Parameter (mean ± SD)	Females			Males		
	FB	IVF KAA	IVF WM	FB	IVF KAA	IVF WM
<i>birth weight (gm)</i>	1.7 ± .1	1.7 ± .2	1.7 ± .2	1.7 ± .2	1.8 ± .1	1.8 ± .2
<i>length at birth (mm)</i>	31.8 ± 1.0	31.6 ± 1.2	31.7 ± 1.8	31.7 ± 1.3	32.1 ± .8	31.9 ± 1.6
<i>BPD at birth (mm)</i>	8.2 ± .4	nd	7.8 ± .5	7.9 ± .5	nd	7.9 ± .5
<i>anogenital distance at birth (mm)</i>	1.2 ± .1	1.2 ± .2	1.1 ± .1	1.7 ± .2	1.7 ± .2	1.6 ± .3
<i>n* for day of birth parameters</i>	21 (5)	15 (4)	18 (7)	23 (7)	10 (3)	26 (6)
<i>age at testicular descent (days)</i>	nd	nd	nd	22.2 ± 1.3	nd	22.8 ± 1.6
<i>age at perputial separation (days)</i>	nd	nd	nd	24.0 ± 1.5	nd	23.7 ± 1.4
<i>age at vaginal opening (days)</i>	26.6 ± 0.8	nd	26.1 ± 1.4	nd	nd	nd
<i>n* for sexual maturation parameters</i>	20 (5)	-	15 (4)	20 (6)	-	21 (5)
<i>percent body fat at 8 wks</i>	23.0 ± 6.6	19.1 ± 6.5	23.0 ± 4.8	22.9 ± 6.2	18.9 ± 4.2	22.7 ± 3.9
<i>BMD at 8 wks (g x 10⁻³/cm²)</i>	54.4 ± 1.9	55.7 ± 3.2	56.8 ± 3.4	56.6 ± 2.8	61.5 ± 4.1	59.3 ± 3.0
<i>n* DEXA parameters at 8 wks</i>	19 (5)	14 (4)	15 (6)	20 (6)	11 (3)	21 (5)
<i>percent body fat at 28 wks</i>	48.8 ± 10.4^Δ	45.0 ± 10.1^Δ	40.7 ± 12.9	36.9 ± 6.8	36.3 ± 4.7	37.7 ± 8.4
<i>BMD at 28 wks (g x 10⁻³/cm²)</i>	62.4 ± 03.5^Δ	60.2 ± 6.4^Δ	62.1 ± 3.8^Δ	59.2 ± 03.4	60.7 ± 4.8^{**}	62.1 ± 5.1^{**}
<i>n* DEXA parameters at 28 wks</i>	16 (4)	11 (4)	11 (4)	20 (6)	11 (3)	21 (5)
<i>Serum corticosterone (ng/ml)</i>	nd	nd	nd	38.5 ± 16.0	nd	43.1 ± 23.3
<i>n*</i>	-	-	-	12 (3)	-	16 (4)

nd= not done

* n= number of individuals (number of litters)

Δ- significantly different from males in the same group at 8 weeks

** significantly greater than FB

significantly less than FB

Supplemental Table S2A. Body weights of female mice.

age (wks)	FB N= mice (litters)	FB mean \pm SD	IVF _{KAA} N= mice (litters)	IVF _{KAA} mean \pm SD	IVF _{WM} N= mice (litters)	IVF _{WM} mean \pm SD
0	21 (7)	1.71 \pm 0.13	14 (4)	1.73 \pm 0.2	16 (7)	1.68 \pm 0.2
1	21 (7)	6.02 \pm 0.44	14 (4)	6.24 \pm 0.62	16 (7)	6.19 \pm 0.55
2	21 (7)	10.74 \pm 0.88	14 (4)	11.59 \pm 1.56	15 (6)	11.08 \pm 0.54
3	22 (7)	15.99 \pm 1.57	14 (4)	16.18 \pm 1.93	15 (6)	16.47 \pm 1.01
4	19 (5)	21.28 \pm 1.87	14 (4)	21.35 \pm 1.91	15 (6)	21.17 \pm 1.09
5	19 (5)	24.35 \pm 2.09	14 (4)	23.18 \pm 2.43	15 (6)	24.46 \pm 1.34
6	19 (5)	25.69 \pm 2.39	14 (4)	24.47 \pm 3.12	15 (6)	26.16 \pm 2.26
7	19 (5)	26.97 \pm 3.44	14 (4)	26.28 \pm 3.3	15 (6)	26.92 \pm 2.76
8	19 (5)	28.2 \pm 4.12	14 (4)	26.64 \pm 4.3	15 (6)	29.38 \pm 3.91
9	19 (5)	29.07 \pm 4.34	14 (4)	28.53 \pm 5.69	15 (6)	30.85 \pm 4
10	19 (5)	31.74 \pm 5.24	14 (4)	29.2 \pm 5.72	15 (6)	33.38 \pm 4.4
11	19 (5)	33.47 \pm 5.81	14 (4)	31.27 \pm 7.48	15 (6)	36.32 \pm 6.02
12	18 (5)	34.18 \pm 5.61	14 (4)	33.22 \pm 7.51	14 (5)	38.2 \pm 5.58
13	16 (4)	36.62 \pm 7.03	14 (4)	34.76 \pm 8.8	12 (5)	40.43 \pm 6.92
14	16 (4)	39.88 \pm 5.67	14 (4)	36.39 \pm 8.74	12 (5)	41 \pm 7.01
15	16 (4)	41.71 \pm 6.2	14 (4)	38.35 \pm 9.19	11 (4)	43.69 \pm 6.24
16	16 (4)	43.01 \pm 6.01	20 (4)	39 \pm 8.25	11 (4)	41.07 \pm 7.35
17	16 (4)	44.71 \pm 6.5	8 (4)	45.1 \pm 11.06	11 (4)	41.9 \pm 7.26
18	16 (4)	44.49 \pm 5.66	11 (4)	42.78 \pm 10.59	11 (4)	42.89 \pm 7.25
19	16 (4)	45.36 \pm 6.47	11 (4)	41.76 \pm 10.66	11 (4)	43.55 \pm 7.11
20	16 (4)	43.32 \pm 5.79	11 (4)	41.77 \pm 12.31	11 (4)	42.47 \pm 7.33
21	16 (4)	42.95 \pm 5.99	11 (4)	42.55 \pm 12.1	11 (4)	43.14 \pm 7.82
22	16 (4)	44.77 \pm 6.15	11 (4)	43.24 \pm 13.06	11 (4)	44.4 \pm 7.43
23	16 (4)	45.49 \pm 6.24	11 (4)	46.3 \pm 12.59	15 (4)	47.06 \pm 7.35
24	16 (4)	46.28 \pm 6.08	11 (4)	48.67 \pm 12.1	7 (3)	44.37 \pm 9.04
25	16 (4)	46.77 \pm 5.47	11 (4)	50.45 \pm 12.21	11 (4)	46.65 \pm 8.55
26	16 (4)	47.06 \pm 6.07	11 (4)	50.12 \pm 13.17	11 (4)	47.64 \pm 8.88
27	16 (4)	48.18 \pm 6.15	11 (4)	50.31 \pm 13.09	11 (4)	47.89 \pm 9.72
28	16 (4)	48.37 \pm 6.67	11 (4)	51.22 \pm 13.48	11 (4)	48.76 \pm 9.19
29	16 (4)	49.65 \pm 6.26	11 (4)	52.08 \pm 13.36	15 (4)	50.48 \pm 8.88

Supplemental Table S2B. Body weights of male mice.

age (wks)	FB N= mice (litters)	FB mean \pm SD	IVF _{KAA} N= mice (litters)	IVF _{KAA} mean \pm SD	IVF _{WM} N= mice (litters)	IVF _{WM} mean \pm SD
0	23 (7)	1.69 \pm 0.18	11 (3)	1.75 \pm 0.19	24 (6)	1.74 \pm 0.25
1	23 (7)	5.64 \pm 0.8	11 (3)	6.24 \pm 0.47	24 (6)	6.53 \pm 0.64
2	23 (7)	9.97 \pm 1.33	11 (3)	10.95 \pm 1.2	21 (5)	11.34 \pm 0.8
3	25 (7)	15.5 \pm 1.99	11 (3)	16.68 \pm 1.5	20 (5)	17.46 \pm 1.1
4	21 (7)	24.46 \pm 2.43	11 (3)	25.74 \pm 2.73	21 (5)	26.65 \pm 1.96
5	21 (6)	28.07 \pm 2.28	11 (3)	29.44 \pm 2.97	21 (5)	31.23 \pm 2.49
6	19 (6)	30.49 \pm 2.56	11 (3)	32.48 \pm 3.47	21 (5)	33.89 \pm 2.51
7	20 (6)	33.79 \pm 2.61	11 (3)	35.19 \pm 3.63	21 (5)	36.41 \pm 2.46
8	20 (6)	36.24 \pm 3.29	11 (3)	36.42 \pm 3.94	21 (5)	39.42 \pm 3.16
9	20 (6)	38.42 \pm 4.09	11 (3)	38 \pm 4.68	21 (5)	41.5 \pm 3.14
10	20 (6)	40.41 \pm 4.23	11 (3)	39.27 \pm 5.09	21 (5)	43.81 \pm 3.02
11	20 (6)	42.37 \pm 4.57	11 (3)	41.16 \pm 5.84	21 (5)	46.51 \pm 3.31
12	20 (6)	44.59 \pm 4.89	11 (3)	42.87 \pm 6.14	21 (5)	48.46 \pm 3.59
13	20 (6)	45.92 \pm 5.12	11 (3)	44.88 \pm 6.33	21 (5)	50.35 \pm 3.63
14	20 (6)	47.33 \pm 5.68	11 (3)	46.86 \pm 6.69	21 (5)	52.19 \pm 3.78
15	20 (6)	48.56 \pm 5.73	11 (3)	48.55 \pm 7.1	21 (5)	53.35 \pm 3.81
16	20 (6)	49.68 \pm 5.92	18 (3)	48.57 \pm 6.27	21 (5)	54.16 \pm 3.88
17	20 (6)	50.46 \pm 5.84	4 (1)	58.22 \pm 8.82	21 (5)	55.33 \pm 3.88
18	20 (6)	50.63 \pm 6.55	11 (3)	52.28 \pm 7.76	21 (5)	56.63 \pm 3.95
19	20 (6)	50.55 \pm 7.06	10 (3)	51.26 \pm 8.18	21 (5)	56.16 \pm 4.22
20	20 (6)	50.58 \pm 7.05	11 (3)	51.83 \pm 8.02	21 (5)	55.22 \pm 4.88
21	20 (6)	51.33 \pm 6.98	11 (3)	53.18 \pm 7.87	21 (5)	56 \pm 5.33
22	20 (6)	53.09 \pm 6.9	11 (3)	54.96 \pm 8.52	21 (5)	57.41 \pm 5.72
23	20 (6)	54.49 \pm 6.46	11 (3)	56.74 \pm 8.73	22 (5)	57.79 \pm 5.51
24	20 (6)	55.19 \pm 6.37	11 (3)	57.99 \pm 8.73	20 (5)	59.38 \pm 4.88
25	20 (6)	56.55 \pm 6.09	11 (3)	59.04 \pm 9.94	21 (5)	60.6 \pm 4.85
26	20 (6)	57.08 \pm 6.17	11 (3)	60.46 \pm 9.6	21 (5)	61.7 \pm 4.75
27	20 (6)	58.1 \pm 6.44	10 (3)	61.47 \pm 9.4	21 (5)	62.06 \pm 4.7
28	20 (6)	57.72 \pm 6.84	11 (3)	60.59 \pm 9.66	21 (5)	62.38 \pm 4.64
29	13 (4)	60.45 \pm 6.63	11 (3)	61.48 \pm 9.41	17 (5)	61.62 \pm 5.11

Supplemental Table S3. Hyperinsulinemic-euglycemic clamp.

mean±S.D.	FB N= 9 (from 3 litters)	IVF_{WM} N= 10 (from 4 litters)
Glucose (mg/dl) basal	93 ± 10	95 ± 7
Glucose (mg/dl) clamp	108±3	106±5
GIR (mg/kg/min) at clamp	25.8 ± 8.3	22.8 ± 8.2
Insulin (ng/ml) at baseline	15 ± 4	19.4 ± 4
Insulin (ng/ml) at clamp	32 ± 8	38 ± 10
C-Peptide (ng/ml) at clamp	14 ± 3	18 ± 4
Total glucose flux (mg/kg/min) at baseline	20.8 ± 6.9	19.6 ± 5.3
Total glucose flux (mg/kg/min) at clamp ^Δ	31.1 ± 7.0	24.0 ± 3.8*
Endogenous glucose production (mg/kg/min) at baseline	18.8 ± 1.6	21.0 ± 2.0
Endogenous glucose production (mg/kg/min) at clamp ^Δ	5.5 ± 6.5	2.0 ± 7.3
Rg (μmol/min/100gr tissue)		
adipose	4.3 ± 1.0	4.1 ± 1.8
brain	48 ± 4	53 ± 9.2
diaphragm	122 ± 35	103 ± 27
gastrocnemius	20 ± 7	20 ± 7
heart	237 ± 61	291 ± 48
soleus muscle	71 ± 31	76 ± 29
superficial vastus lateralis	15 ± 3	17 ± 7

^Δ Values at clamp are the mean of the values at the 100 and 120 minute time points

* Significantly less than FB, p<0.05