

Data Supplement for Wu et al., “Metformin for Treatment of Antipsychotic-Induced Amenorrhea and Weight Gain in Women With First-Episode Schizophrenia: A Double-Blind, Randomized, Placebo-Controlled Study,” *American Journal of Psychiatry* (doi: 10.1176/appi.ajp.2012.11091432)

TABLE S1. Treatment outcomes of body weight, body mass index, insulin and insulin resistance index for all 84 randomized participants

Variable and week	Metformin group (n=42) *		Placebo group (n=42) *		Estimate [#]	Between-group difference	
	Mean	SD	Mean	SD		t Value [#]	P Value [#]
Weight, kg							
Month 1	56.14	5.52	57.06	5.54	0.92	0.70	0.49
Month 2	55.45	5.99	57.19	5.63	1.742	1.32	0.19
Month 3	54.95	6.39	57.97	5.64	3.012	2.28	0.02
Month 4	54.60	6.79	58.19	5.68	3.582	2.71	0.01
Month 5	54.17	7.18	58.53	5.82	3.582	2.71	0.01
Month 6	54.23	7.46	58.95	5.79	4.72	3.57	< 0.01
Body mass index							
Month 1	22.25	1.29	22.82	1.29	0.57	1.62	0.12
Month 2	21.98	1.59	22.87	1.24	0.89	2.52	0.01
Month 3	21.78	1.85	23.19	1.33	1.41	3.98	< 0.01
Month 4	21.64	2.09	23.28	1.37	1.63	4.62	< 0.01
Month 5	21.47	2.26	23.41	1.43	1.63	4.62	< 0.01
Month 6	21.49	2.42	23.58	1.43	2.09	5.90	< 0.01
Fasting glucose, mmol/L							
Month 2	5.11	0.36	5.12	0.38	0.01	0.08	0.93
Month 4	5.05	0.46	5.03	0.38	-0.02	-0.19	0.85
Month 6	5.08	0.50	5.08	0.40	0.01	0.04	0.97
Insulin, μIU/mL							
Month 2	19.44	8.28	21.17	8.41	1.73	0.93	0.3538
Month 4	16.86	8.13	21.71	8.63	4.86	2.61	0.01
Month 6	15.63	9.26	21.52	8.75	5.90	3.17	< 0.01
Insulin resistance index							
Month 2	4.42	1.90	4.80	1.88	0.37	0.90	0.37
Month 4	3.74	1.69	4.83	1.84	1.02	2.64	0.01
Month 6	3.48	1.96	4.85	1.95	1.37	3.32	< 0.01

* For SPSS analyses; # for SAS analyses.

TABLE S2. Treatment outcomes of hormone levels for all 84 randomized participants

Variable and week	Metformin group (n=42) *		Placebo group (n=42) *		Estimate [#]	Between-group difference	
	Mean	SD	Mean	SD		t Value [#]	P Value [#]
Prolactin, ug/L							
Month 2	142.11	153.91	222.12	229.43	80.01	1.78	0.08
Month 4	125.63	159.79	223.17	241.65	97.54	2.17	0.03
Month 6	123.79	170.08	220.95	240.92	97.16	2.16	0.03
LH, Iu/L							
Month 2	10.92	9.89	14.18	11.13	3.26	1.41	0.16
Month 4	9.85	9.69	14.29	11.12	4.45	1.92	0.06
Month 6	9.34	9.16	14.88	11.14	5.54	2.40	0.02
FSH, Iu/L							
Month 2	4.84	2.82	5.57	3.73	0.73	1.00	0.32
Month 4	5.12	2.91	5.77	3.67	0.65	0.89	0.37
Month 6	5.10	2.54	5.85	3.65	0.75	1.02	0.31
LH/FSH ratio							
Month 2	2.61	1.87	2.97	1.66	0.36	0.93	0.35
Month 4	2.16	1.57	2.79	1.61	0.63	1.62	0.11
Month 6	2.01	1.59	2.87	1.73	0.86	2.19	0.03
Estradiol, nmol/L							
Month 2	0.56	0.36	0.48	0.24	0.08	-1.28	0.20
Month 4	0.58	0.32	0.49	0.23	0.10	-1.58	0.11
Month 6	0.53	0.33	0.51	0.25	0.02	-0.37	0.71
Testosterone, nmol/L							
Month 2	1.69	1.06	1.69	1.13	0.01	-0.04	0.97
Month 4	1.63	0.92	1.56	0.94	0.07	-0.30	0.77
Month 6	1.55	0.87	1.56	0.97	0.01	0.04	0.97

Abbreviations: LH, luteinizing hormone; FSH, follicle-stimulating hormone.

* For SPSS analyses; [#] for SAS analyses.