

Table S1. Comparison of the simulated and observed pharmacokinetic parameters for sildenafil

20 mg	Observed ^a	Predicted	Fold error	R ² value
C _{max} (ng/ml)	67.10	62.83	0.94	0.9637
t _{max} (h)	0.78	1.12	1.44	
AUC _{0–inf} (ng h/ml)	204.70	205.55	1.00	
50 mg	Observed ^a	Predicted	Fold error	
C _{max} (ng/ml)	147.00	162.16	1.10	
t _{max} (h)	1.01	1.01	1.00	
AUC _{0–inf} (ng h/ml)	519.10	513.87	0.99	
100 mg	Observed ^a	Predicted	Fold error	
C _{max} (ng/ml)	277.00	314.09	1.13	
t _{max} (h)	1.75	1.20	0.69	
AUC _{0–inf} (ng h/ml)	1559.30	1027.70	0.66	

^a Estimated from the mean plasma concentration–time profiles

Table S2. Percent decrease/increase^a in the simulated values of pharmacokinetic parameters for sildenafil before and after bariatric surgery in comparison to pre-surgery state

25 mg	Post-SG (gastric pH=5)	Post-OAGB (gastric pH=7)
C _{max}	-0.32	31.00
t _{max}	-7.14	-64.29
AUC _{0–inf}	0.00	0.28
50 mg	Post-SG (gastric pH=5)	Post-OAGB (gastric pH=7)
C _{max}	1.87	36.00
t _{max}	-14.29	-64.29
AUC _{0–inf}	0.00	0.66
100 mg	Post-SG (gastric pH=5)	Post-OAGB (gastric pH=7)
C _{max}	6.18	42.88
t _{max}	-20.00	-60.00
AUC _{0–inf}	0.00	1.92

^a Calculated as: (value_{pre-surgery}–value_{post-surgery}) x 100/value_{pre-surgery};