

S6 Table. WAIC values in the supplementary model comparison.

	Group	Best-fitted RL	VKF	PH	RELATIVE
Reward trial	HC	1814.4	2265.4	1880.9	1915.0
	OCD	1474.9	1733.4	1487.0	1485.0
	PG	999.2	1214.3	1018.6	1011.8
Avoidance trial	HC	2373.0	2382.9	2380.9	2385.6
	OCD	1929.6	1969.6	1964.2	1985.7
	PG	1165.5	1170.2	1170.1	1177.4

WAIC, widely applicable Akaike information criterion; HC, healthy control; OCD, obsessive-compulsive disorder; PG, pathological gambling; Best-fitted RL, RL2 in reward trials and RL3 in avoidance trials; VKF, Volatility Kalman Filter model; PH, Pearce-Hall model; and RELATIVE, RELATIVE model.