

**Table S1.** Site-Specific and Mean Sample Demographics and Characteristics

	<b>Boston site (n=180; 60 trios)</b>	<b>Vancouver site (n=174; 58 trios)</b>	<b>t/<math>\chi^2</math> value</b>	<b>p value</b>	<b>Total sample (n = 354; 118 trios)</b>
Age at ascertainment, mean (SD)	14.2y (2.97)	14.0y (3.01)	0.295	.770	14.1y (2.98)
Age of OCD onset, mean (SD) <sup>a</sup>	8.32y (3.08)	8.42y (3.64)	0.150	.881	8.37y (3.35)
Age at worst OCD, mean (SD) <sup>a</sup>	11.64y (3.29)	12.52y (3.06)	1.50	.137	12.1y (3.20)
Sex, % Male	60.7 (n=34)	50.0 (n=29)	1.32	.250	55.3 (n=63)
Lifetime comorbidity, %	77.1 (n=37)	69.0 (n=40)	0.87	.351	72.6 (n=77)
CGI-Severity, mean (SD)	3.45 (1.33)	4.31 (1.23)	2.83	.006	3.78 (1.35)
CYBOCS total, mean (SD)	29.04 (5.79)	21.64 (8.67)	5.10	<.001*	25.13 (8.29)
Obsession total score, mean (SD)	14.58 (3.46)	10.46 (4.28)	5.40	<.001*	12.41 (4.41)
Compulsion total score, mean (SD)	14.46 (3.07)	11.18 (4.74)	4.17	<.001*	12.73 (4.35)
FAS total score, mean (SD)	-	19.09 (12.9)	-	-	-
CDI total, mean (SD)	-	14.64 (10.9)	-	-	-
Intact families, %	-	82.1 (n=46)	-	-	-
<b>OFF-scale reports</b>					
Age of OCD onset, mean (SD) <sup>a</sup>	8.32y (3.08)	8.42y (3.64)	0.150	.881	8.37y (3.35)
Age at worst OCD, mean (SD) <sup>a</sup>	11.64y (3.29)	12.52y (3.06)	1.50	.137	12.1y (3.20)
Score on OFF Part 1 (0-63) <sup>a</sup>					
Current OCD, mean (SD)	20.1 (13.5)	27.1 (12.3)	2.94	.004*	23.6 (13.3)
Worst ever OCD, mean (SD)	37.3 (11.7)	33.2 (11.8)	1.87	.064	35.3 (11.9)
Household composition					
Living with mother, % <sup>b</sup>	98.3 (n=59)	100.0 (n=58)	0.975	.323	99.2 (n=117)
Living with father, %	93.3 (n=56)	98.3 (n=57)	1.780	.183	95.8 (n=113)
Living with sibling(s), %	86.7 (n=52)	74.1 (n=43)	2.950	.086	80.5 (n=95)
Living alone, %	0 (n=0)	0 (n=0)	-	-	0 (n=0)
Family history of OCD					
Diagnosed in mother, %	6.7 (n=4)	3.5 (n=2)	0.667	.414	5.1 (n=6)
Suspected in mother, %	16.7 (n=10)	15.5 (n=9)	0.143	.705	16.1 (n=19)
Diagnosed in father, %	13.3 (n=8)	6.9 (n=4)	1.411	.235	10.2 (n=12)
Suspected in father, %	31.7 (n=19)	24.1 (n=14)	1.479	.224	28.0 (n=33)
Diagnosed in sibling(s), %	5.0 (n=3)	6.9 (n=4)	0.171	.680	5.9 (n=7)

Suspected in sibling(s), %	15.0 (n=9)	8.6 (n=5)	1.559	.212	11.9 (n=14)
Diagnosed in extended family, %	15.0 (n=9)	17.2 (n=10)	0.085	.771	16.1 (n=19)
Suspected in extended family, %	36.7 (n=22)	44.8 (n=26)	0.269	.604	40.7 (n=48)
Treatment history					
Previous medications, %	88.3 (n=53)	56.9 (n=33)	13.90	<.001*	72.9 (n=86)
'Talk' therapy (psychotherapy), %	80 (n=48)	13.8 (n=8)	41.95	<.001*	47.5 (n=56)
Behavioral therapy, %	83.3 (n=50)	17.2 (n=10)	49.73	<.001*	50.9 (n=60)
Family therapy, %	31.7 (n=19)	6.9 (n=4)	10.96	.001*	19.5 (n=23)
No previous treatment, %	3.3 (n=2)	24.1 (n=14)	11.16	.001*	13.6 (n=16)

Note: CDI = Child Depression Inventory; CGI = Clinical Global Impression; CY-BOCS = Children's Yale-Brown Obsessive-Compulsive Scale; FAS = Family Accommodation Scale; OCD = obsessive-compulsive disorder; OFF = OCD Family Functioning Scale.

<sup>a</sup> Reported values are the mean of youth (self), mother and father reports

<sup>b</sup> Reported percentages are the percentage of sample excluding missing values

\* Statistically significant difference ( $\alpha = 0.05$ ) between Boston and Vancouver site

**Table S2.** Obsessive-Compulsive Disorder (OCD) Family Functioning (OFF) Subscale Scores as Reported by Affected Youth, Mothers, and Fathers

OFF Scale Items	At Worst Ever OCD						At Current OCD					
	Mean (SD)			df (error)	F	p	Mean (SD)			df (error)	F	p
	Patient	Mother	Father				Patient	Mother	Father			
<b>Part 1: Family functioning Impairment (0-63)</b>	37.98 (15.37)	38.04 (15.26)	34.52 (15.38)	1.92 (214.5)	3.58	.032 <sup>c</sup>	26.24 (16.63)	24.84 (16.31)	23.15 (15.58)	1.88 (218.0)	2.64	.08
Routine Tasks (0-33)	17.46 (9.10)	18.67 (8.89)	17.05 (8.79)	1.91 (210.14)	1.95	.15	11.25 (8.90)	11.36 (8.57)	11.02 (8.17)	1.90 (218.53)	0.11	.88
Social Life (0-9)	6.89 (2.90)	6.22 (3.02)	5.89 (3.00)	2 (212)	5.00	.008 <sup>b</sup>	4.94 (3.36)	4.10 (3.17)	3.94 (3.21)	1.87 (208.06)	5.75	.004 <sup>a,b</sup>
Work/School Performance (0-9)	6.21 (2.71)	5.80 (2.93)	5.42 (2.84)	2 (214)	3.56	.03 <sup>b</sup>	4.42 (3.18)	3.72 (3.14)	3.56 (3.12)	2 (226)	5.53	.005 <sup>a,b</sup>
Emotional (0-12)	8.02 (3.24)	7.58 (3.01)	6.43 (2.92)	2 (218)	10.66	<.001 <sup>b,c</sup>	5.88 (3.54)	5.60 (3.22)	4.57 (2.96)	2 (232)	9.12	<.001 <sup>b,c</sup>
<b>Part 2: Symptom-specific impairment (0-32)</b>	18.65 (7.41)	17.19 (7.13)	17.35 (7.56)	2 (200)	1.72	.18	16.82 (7.54)	15.89 (7.71)	15.58 (7.44)	2 (188)	1.09	.34
<b>Part 3: Family role-specific impairment (0-5)</b>	1.95 (0.69)	3.17 (1.19)	2.89 (1.25)	2 (128)	28.96	<.001 <sup>a,b</sup>	2.00 (0.82)	3.14 (1.23)	2.84 (1.35)	2 (100)	15.62	<.001 <sup>a,b</sup>

Note: Boldface indicates a statistically significant omnibus difference ( $\alpha = 0.05$ ) across the respondent groups. Omnibus  $p$  values calculated via repeated measures analysis of variance, and pair-wise differences calculated via paired t-testing. OCD = obsessive-compulsive disorder.

<sup>a</sup> Statistically significant exploratory pairwise difference ( $p < .05$ ) between patient and mother.

<sup>b</sup> Statistically significant exploratory pairwise difference ( $p < .05$ ) between patient and father.

<sup>c</sup> Statistically significant exploratory pairwise difference ( $p < .05$ ) between mother and father.

**Table S3.** Prevalence of Symptom-Specific Family Impairment<sup>a</sup>

<b>Symptom Type</b>	<b>Worst Ever OCD</b>	
	<b>(%)</b>	<b>Current OCD (%)</b>
Cleaning compulsions	63.4	54.4
Contamination obsessions	64.7	52.7
Hoarding	45.8	39.9
Scrupulosity obsessions	56.2	47.5
Intrusive obsessions	82.5	68.2
Perfectionism	73.5	62.8
Symmetry obsessions	54.1	44.0
Ordering compulsions	43.7	39.3
Repeating compulsions	67.7	56.8
Checking compulsions	68.7	56.6
Counting compulsions	47.3	39.2
Religious obsessions	24.1	20.4
Somatic obsessions	67.9	57.6
Sexual obsessions	22.8	19.5
'Just right' obsessions	80.1	69.1
Slowness	56.5	48.1

Note: no significant score differences were identified across youth, mother, and father groups for this subscale total (see Table 1,  $p \geq .18$ ). OCD = obsessive-compulsive disorder.

<sup>a</sup> Percentages represent proportion of total respondents who answered “A Little,” “Often,” or “Always.”