

Supplementary Table 4. Clustered tics with frequency and location of premonitory urges (PUs)

Tic		PU				
Type of tic	Location of tic	Frequency <i>n</i> * (% [†])	Commonly reported body areas [‡] (> 10%)	Frequency <i>n</i> [§] (%)	Other body areas, % on average (% range)	Frequency <i>n</i> [¶] (% ^{**})
Motor tics	Face/Head	288 (99)	Cheeks	142 (13.6)	3.9 (0.2–9.8)	205 (71.2)
			Forehead	142 (13.6)		
			Eyes	109 (10.5)		
	Eyes	237 (81.4)	Eyes	100 (31.2)	2.4 (0–7.5)	152 (64.1)
			Forehead	90 (28)		
	Mouth	222 (76.3)	Mouth	92 (26.7)	1.9 (0.3–5.5)	150 (67.6)
			Cheeks	90 (26.1)		
			Chin	57 (16.5)		
	Face	229 (78.7)	Cheeks	109 (22.6)	3 (0.2–8.7)	154 (67.2)
			Forehead	78 (16.1)		
			Nose	63 (13)		
	Head	200 (68.7)	Neck	75 (18.5)	2.3 (0.2–8.9)	143 (71.5)
			Forehead	69 (17)		
			Throat	61 (15.1)		
			Back of the head	59 (14.6)		
	Shoulders	119 (40.9)	Shoulders	71 (39.4)	1 (0–6.7)	86 (72.3)
			Arms	23 (12.8)		
			Neck	23 (12.8)		
			Throat	20 (11.1)		
			Chest	19 (10.6)		
	Arms/Hands	198 (68)	Hands	114 (29.3)	1.8 (0–5.9)	161 (81.3)
			Arms	103 (26.5)		
			Shoulders	57 (14.7)		
	Trunk	106 (36.4)	Abdomen	73 (34)	0.8 (0–4.2)	93 (87.7)
			Pelvis	47 (21.9)		
			Back	43 (20)		
			Chest	27 (12.6)		
Legs/Feet	130 (44.7)	Feet	81 (40.7)	1.4 (0–5)	118 (90.8)	
		Legs	72 (36.2)			
Spinning around	12 (4.1)	Back	4 (23.5)	0.8 (0–5.9)	11 (91.7)	
		Abdomen	3 (17.6)			
		Chest	3 (17.6)			
		Forehead	3 (17.6)			
		Back of the head	2 (11.8)			
Copropraxia	25 (8.6)	Pelvis	8 (27.6)	1.8 (0–6.9)	18 (72)	
		Hands	6 (20.7)			
		Chest	4 (13.8)			
		Abdomen	3 (10.3)			
Auto aggressive actions (self-injuries)	35 (12)	Forehead	10 (16.1)	3.1 (0–6.5)	33 (94.3)	
		Chest	9 (14.5)			
		Back of the head	7 (11.3)			
		Hands	7 (11.3)			
Echopraxia	36 (12.4)	Arms	7 (17.5)	3.2 (0–7.5)	27 (75)	
		Legs	5 (12.5)			
		Shoulders	5 (12.5)			
		Pelvis	4 (10)			
Vocal tics	Simple vocal tics	211 (72.5)	Mouth	74 (16.5)	2.9 (0.2–9.1)	169 (80.1)
			Throat	70 (15.6)		
			Nose	57 (12.7)		
			Chest	54 (12)		
	Vocal tics in mouth	201 (69.1)	Throat	69 (18.6)	2.6 (0–7.8)	162 (80.6)
			Mouth	67 (18.1)		
			Chest	53 (14.3)		
	Vocal tics in nose	132 (45.4)	Chin	40 (10.8)	2.6 (0–9.8)	87 (65.9)
			Nose	53 (37.1)		
			Mouth	27 (18.9)		
	Complex vocal tics	138 (47.4)	Mouth	39 (23.8)	2.2 (0–7.9)	105 (76.1)
			Forehead	23 (14)		
			Throat	18 (11)		
			Cheeks	17 (10.4)		
				Chest	17 (10.4)	

*absolute numbers of tic frequencies are based on the number of participants reporting the tic; [†]percentages of tic frequencies are based on the number of participants reporting the tic divided by the total number of participants; [‡]“body area” refers to one of the 19 combined body areas; [§]absolute numbers of body areas affected by the PUs are based on the number of marks per body area for that tic; ^{||}percentages of body areas affected by the PU are based on the number of marks per body area for that tic divided by the number of marks of all body areas for that tic. Each body area was counted only once per participant per tic if the participant marked it several times; [¶]absolute numbers of PU frequencies are based on the number of participants “always” or “sometimes” reporting a PU for that tic; ^{**}percentages of PU frequencies are based on the number of participants “always” or “sometimes” reporting a PU for that tic divided by the total number of participants reporting that tic. We clustered tics indicated in our study to those eight “common tics” as selected by Leckman et al.¹⁰ (given below in quotes) as follows: 1) facial grimacing and complex facial movements or expressions to “facial grimaces,” 2) shoulder shrugging and shoulder gestures to “shoulder jerks,” 3) head shaking/twisting/shrugging/nodding and head gestures to “head/neck movements,” 4) mouth movement, complex mouth movement, and lip movement to “mouth movements,” and 5) coprolalia, palilalia, non-obscene socially inappropriate behavior, and echolalia to “words or phrases.” The remaining three tics (“eye blinking,” “throat clearing,” and “sniffing”) corresponded with each other in both studies.