

Supplemental Material for “Predicting Post-Disaster Post-Traumatic Stress Disorder Symptom Trajectories: The Role of Pre-Disaster Traumatic Experiences”

Table S1. Results of multinomial regression models estimating predicted probability of trajectory group membership

Model #	Model Covariates	Trajectory Group			
		Resistant	Recovery	Delayed-Onset	Chronic-High
1 (Crude)	Pre-Katrina trauma only				
	Predicted probability at mean level of pre-Katrina trauma exposure	0.50 (0.46, 0.53)	0.30 (0.26, 0.33)	0.08 (0.06, 0.10)	0.13 (0.10, 0.15)
	Predicted probability at 1 SD above mean	0.45 (0.39, 0.50)	0.27 (0.22, 0.32)	0.10 (0.07, 0.13)	0.18 (0.14, 0.22)
	<i>Difference</i>	-0.05 (-0.07, -0.03)	-0.02 (-0.04, -0.01)	0.02 (0.01, 0.03)	0.05 (0.04, 0.07)
	<i>Percent change in probability</i>	-10.1%	-7.4%	21.3%	43.0%
2	Model 1 + pre-Katrina sociodemographics				
	Predicted probability at mean level of pre-Katrina trauma exposure	0.50 (0.46, 0.53)	0.30 (0.26, 0.33)	0.08 (0.06, 0.10)	0.13 (0.10, 0.15)
	Predicted probability at 1 SD above mean	0.45 (0.40, 0.50)	0.27 (0.22, 0.32)	0.10 (0.07, 0.13)	0.18 (0.14, 0.22)
	<i>Difference</i>	-0.05 (-0.06, -0.03)	-0.02 (-0.04, -0.01)	0.02 (0.01, 0.03)	0.05 (0.04, 0.06)
	<i>Percent change in probability</i>	-9.1%	-8.3%	23.4%	39.9%
3	Model 2 + pre-Katrina social support				
	Predicted probability at mean level of pre-Katrina trauma exposure	0.50 (0.46, 0.53)	0.30 (0.26, 0.33)	0.08 (0.06, 0.10)	0.13 (0.10, 0.15)
	Predicted probability at 1 SD above mean	0.46 (0.40, 0.51)	0.27 (0.22, 0.32)	0.10 (0.07, 0.13)	0.18 (0.14, 0.21)
	<i>Difference</i>	-0.04 (-0.06, -0.02)	-0.03 (-0.04, -0.01)	0.02 (0.01, 0.03)	0.05 (0.04, 0.06)
	<i>Percent change in probability</i>	-8.0%	-9.1%	22.9%	37.7%
4	Model 3 + pre-Katrina psychological distress				
	Predicted probability at mean level of pre-Katrina trauma exposure	0.50 (0.46, 0.53)	0.30 (0.26, 0.33)	0.08 (0.06, 0.10)	0.13 (0.10, 0.15)
	Predicted probability at 1 SD above mean	0.46 (0.41, 0.51)	0.26 (0.22, 0.31)	0.10 (0.07, 0.13)	0.17 (0.14, 0.21)
	<i>Difference</i>	-0.03 (-0.05, -0.02)	-0.03 (-0.05, -0.02)	0.02 (0.01, 0.03)	0.05 (0.03, 0.06)
	<i>Percent change in probability</i>	-6.7%	-10.8%	23.6%	36.0%
5	Model 4 + Katrina-related trauma scale				
	Predicted probability at mean level of pre-Katrina trauma exposure	0.49 (0.46, 0.53)	0.30 (0.26, 0.33)	0.08 (0.06, 0.10)	0.13 (0.10, 0.15)
	Predicted probability at 1 SD above mean	0.48 (0.43, 0.53)	0.26 (0.21, 0.31)	0.10 (0.07, 0.13)	0.16 (0.13, 0.20)

	<i>Difference</i>	-0.01 (-0.03, 0.01)	-0.04 (-0.05, -0.02)	0.02 (0.01, 0.03)	0.03 (0.02, 0.04)
	<i>Percent change in probability</i>	-2.3%	-13.2%	20.0%	26.8%
6	Model 5 + Katrina-related home damage				
	Predicted probability at mean level of pre-Katrina trauma exposure	0.49 (0.46, 0.53)	0.30 (0.26, 0.33)	0.08 (0.06, 0.10)	0.13 (0.10, 0.15)
	Predicted probability at 1 SD above mean	0.49 (0.44, 0.54)	0.25 (0.21, 0.30)	0.10 (0.07, 0.13)	0.16 (0.13, 0.20)
	<i>Difference</i>	-0.01 (-0.02, 0.01)	-0.04 (-0.06, -0.03)	0.02 (0.01, 0.03)	0.03 (0.02, 0.04)
	<i>Percent change in probability</i>	-1.7%	-14.2%	22.5%	25.2%
7	Model 6 + Katrina-related bereavement				
	Predicted probability at mean level of pre-Katrina trauma exposure	0.49 (0.46, 0.53)	0.30 (0.26, 0.33)	0.08 (0.06, 0.10)	0.13 (0.10, 0.15)
	Predicted probability at 1 SD above mean	0.49 (0.44, 0.54)	0.25 (0.21, 0.30)	0.10 (0.07, 0.13)	0.16 (0.13, 0.19)
	<i>Difference</i>	-0.004 (-0.02, 0.01)	-0.04 (-0.06, -0.03)	0.02 (0.01, 0.03)	0.03 (0.02, 0.04)
	<i>Percent change in probability</i>	-0.84%	-15.1%	22.9%	23.7%
8 (Fully-Adjusted)	Model 7 + post-Katrina trauma				
	Predicted probability at mean level of pre-Katrina trauma exposure	0.50 (0.46, 0.53)	0.30 (0.26, 0.33)	0.08 (0.06, 0.10)	0.13 (0.11, 0.15)
	Predicted probability at 1 SD above mean	0.52 (0.46, 0.57)	0.24 (0.20, 0.29)	0.09 (0.06, 0.12)	0.15 (0.12, 0.19)
	<i>Difference</i>	0.02 (0.002, 0.04)	-0.05 (-0.06, -0.04)	0.01 (-0.001, 0.02)	0.02 (0.01, 0.03)
	<i>Percent change in probability</i>	4.2%	-17.2%	9.7%	17.3%

Table S2. Predicted probability and 95% confidence intervals of PTSD trajectory membership by level and type of Katrina-related trauma exposure

	Trajectory Group							
	Resistant		Recovery		Delayed-Onset		Chronic-High	
	Crude	Fully Adjusted	Crude	Fully Adjusted	Crude	Fully Adjusted	Crude	Fully Adjusted
Katrina-Related Trauma Exposure¹								
Predicted probability at mean level of Katrina-related trauma exposure	0.49 (0.45, 0.53)	0.49 (0.45, 0.52)	0.31 (0.27, 0.34)	0.31 (0.27, 0.34)	0.08 (0.06, 0.10)	0.08 (0.06, 0.10)	0.12 (0.10, 0.15)	0.12 (0.10, 0.15)
Predicted probability at 1 SD above mean	0.32 (0.27, 0.38)	0.39 (0.33, 0.44)	0.36 (0.31, 0.41)	0.34 (0.28, 0.39)	0.10 (0.07, 0.13)	0.10 (0.07, 0.14)	0.22 (0.18, 0.26)	0.18 (0.14, 0.21)
<i>Difference</i>	-0.17 (-0.18, -0.15)	-0.10 (-0.12, -0.08)	0.06 (0.04, 0.07)	0.03 (0.01, 0.05)	0.01 (0.01, 0.03)	0.02 (0.01, 0.03)	0.10 (0.08, 0.11)	0.05 (0.04, 0.06)
<i>Percent change in probability</i>	-34.0%	-21.0%	17.9%	10.3%	17.9%	23.1%	78.4%	41.7%
Moderate to Severe Home Damage Due to Katrina¹								
Predicted probability – Did not experience moderate to severe home damage	0.64 (0.55, 0.73)	0.56 (0.47, 0.65)	0.19 (0.12, 0.27)	0.22 (0.14, 0.31)	0.11 (0.05, 0.17)	0.13 (0.06, 0.20)	0.06 (0.02, 0.10)	0.08 (0.02, 0.14)
Predicted probability – Experienced moderate to severe home damage	0.46 (0.42, 0.50)	0.48 (0.44, 0.51)	0.31 (0.27, 0.35)	0.31 (0.27, 0.34)	0.07 (0.05, 0.09)	0.07 (0.05, 0.09)	0.15 (0.12, 0.18)	0.14 (0.12, 0.17)
<i>Difference</i>	-0.18 (-0.13, -0.23)	-0.09 (-0.14, -0.03)	0.12 (0.08, 0.16)	0.09 (0.04, 0.13)	-0.04 (-0.07, 0.001)	-0.06 (-0.11, -0.01)	0.10 (0.08, 0.11)	0.06 (0.03, 0.09)
<i>Percent change in probability</i>	-27.9%	-15.4%	60.8%	38.7%	-32.7%	-45.5%	166.1%	74.8%
Family Member or Close Friend Died Due to Katrina¹								
Predicted probability – Did not lose a family member or close friend due to Katrina	0.60 (0.55, 0.64)	0.55 (0.51, 0.59)	0.24 (0.20, 0.28)	0.26 (0.21, 0.30)	0.09 (0.06, 0.11)	0.09 (0.06, 0.12)	0.08 (0.05, 0.10)	0.10 (0.07, 0.13)
Predicted probability – Lost a family member or close friend due to Katrina	0.33 (0.27, 0.38)	0.40 (0.34, 0.45)	0.37 (0.32, 0.43)	0.36 (0.30, 0.42)	0.07 (0.04, 0.10)	0.07 (0.04, 0.10)	0.23 (0.18, 0.28)	0.18 (0.14, 0.22)
<i>Difference</i>	-0.27 (-0.28, -0.26)	-0.15 (-0.17, -0.14)	0.13 (0.12, 0.15)	0.10 (0.09, 0.12)	-0.01 (-0.02, -0.01)	-0.02 (-0.03, -0.02)	0.15 (0.12, 0.17)	0.08 (0.07, 0.09)
<i>Percent change in probability</i>	-45.1%	-28.1%	56.1%	39.3%	-16.1%	-26.7%	187.2%	78.3%

¹Fully adjusted model includes baseline age, race, partnership status and number of public benefits received, pre-Katrina psychological distress and perceived social support, and pre-Katrina and post-Katrina trauma exposure.