Supplemental Table 1: Auditory emotion recognition scores for controls vs. schizophrenia patients for stimuli defined a priori based upon physical features as utilizing pitch- vs. intensity-modulation to convey either anger (top row) or happiness (bottom) row.

Group	**Pitch**					**Intensity**				
	Control		Patient			Control		Patient		
Emotion	Mean	sd	Mean	sd	t (p)	Mean	sd	Mean	sd	t (
Anger	31.9	27.8	19.1	21.5	2.51 (.014)	46.9	17.9	44.6	16.9	.6
Happiness	58.3	33.9	45.3	31	2.57 (.01)	18.1	20.1	19.4	24.4	.3

Supplemental Table 2: Face emotion (ER-40) measures for individual emotions in control and schizophrenia patients

Emotion	Control (n=63)		Patient (n=77)			
	Mean	SD	Mean	SD	t	p
Happiness	98.2	4.9	96.4	6.4	1.82	0.07
Sadness	84.3	16.0	75.8	17.1	3.01	0.003
Fear	86.5	14.4	64.9	24.0	6.27	<.001
Anger	65.5	18.1	59.3	20.8	1.80	0.06
No emotion	87.3	13.2	72.0	28.8	3.89	<.001

Supplemental Table 3: Correlations between auditory and visual emotion recognition measures by intended emotion across patients (n=77)

Auditory\Visual	Happiness	Sadness	Anger	Fear	No Emotion
Happiness	0.18	0.02	0.02	0.14	0.10
Sadness	0.05	***0.46***	0.14	*0.27*	0.12
Anger	0.18	*0.28*	*0.22*	0.02	-0.06
Fear	0.13	0.17	*0.24*	*0.26*	0.06
No Emotion	0.16	-0.04	0.25	0.22	***0.51***

P<.05
P<.01

Supplemental table 4: Performance by emotion (brief battery) across all stimuli in replication sample

	Patients (n=36)		Age-matched controls (n=31		General controls (n=188)		Statistics		
	Mean	SD	Mean	SD	Mean	SD	F	df	p
Happiness	25.8	18.4	38.3	21.2	39.1	20.1	6.79	2,252	.001
Sadness	61.5	23.5	75.2	23.1	85.2	18.3	23.3	2,252	<.0001
Fear	63.8	24.7	78.0	17.3	77.6	19.2	7.53	2,252	.001
Anger	44.4	25.9	59.7	26.4	52.7	20.5	4.06	2,252	.02
No emotion	69.8	30.0	90.8	17.1	86.2	17.7	12.1	2,252	<.0001