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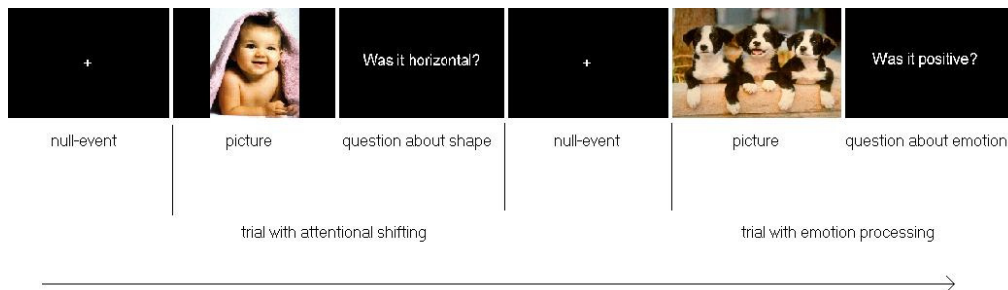


Fig. S1: The structure of the emotional processing–attention shifting task. Two trials are presented with alternated null events. The first trial is an attention shifting trial, the second an emotion processing trial.

Table S1: Neural activation in the healthy controls with family history of major depressive disorder relative to other groups in emotion processing and attention shifting divided separately for different types of stimuli

Comparison; brain region	Cluster size, no. voxels	MNI coordinate			Cluster-corrected <i>p</i> value
		<i>x</i>	<i>y</i>	<i>z</i>	
HC-FHP > MDD-FHP: emotion processing of positive stimuli					
Left superior occipital gyrus	765	-15	-85	25	< 0.001
Left middle occipital gyrus		-15	-88	13	
Left angular gyrus		-33	-55	22	
HC-FHP > MDD-FHP: attention shifting of negative stimuli					
Left superior occipital gyrus	798	-21	-79	25	< 0.001
Left middle/ anterior cingulate cortex		-3	-16	34	
HC-FHP > MDD-FHP: attention shifting of neutral stimuli					
Left postcentral gyrus	601	-36	-25	40	< 0.001
Left inferior parietal gyrus		-30	-37	40	
Left supplementary motor area	199	-3	8	46	0.001
Right superior frontal gyrus		15	17	46	
Right supplementary motor area		9	8	49	
MDD-FHP > HC-FHP: attention shifting of negative stimuli					
Left cerebellum 4_5	205	-9	-58	-20	0.001
Left fusiform/ parahippocampal gyrus		-27	-43	-14	
Right cerebellum 6		21	-55	-23	
HC-FHP > HC-FHN: emotion processing of negative stimuli					
Left inferior parietal gyrus	452	-54	-40	40	< 0.001
Left postcentral gyrus		-57	-19	43	
HC-FHP > HC-FHN: attention shifting of negative stimuli					
Right middle cingulate cortex	313	3	-19	34	< 0.001
Left middle cingulate cortex		-9	-22	37	
Left postcentral gyrus		-36	-16	34	
HC-FHP > HC-FHN: attention shifting of positive stimuli					
Left middle occipital gyrus	146	-33	-73	25	0.006
Left superior occipital gyrus		-24	-79	28	
Left cuneus		-9	-76	25	
HC-FHP > HC-FHN: attention shifting of neutral stimuli					
Left inferior parietal gyrus	141	-45	-28	40	0.007

HC-FHN = healthy controls without family history of MDD; HC-FHP = healthy controls with family history of MDD; MDD = major depressive disorder; MDD-FHP = patients with MDD with family history of MDD; MNI = Montreal Neurological Institute.