

Data supplement

Derntl et al. Empathy in individuals clinically at risk for psychosis: brain and behaviour. *Br J Psychiatry* doi: 10.1192/bjp.bp.114.159004

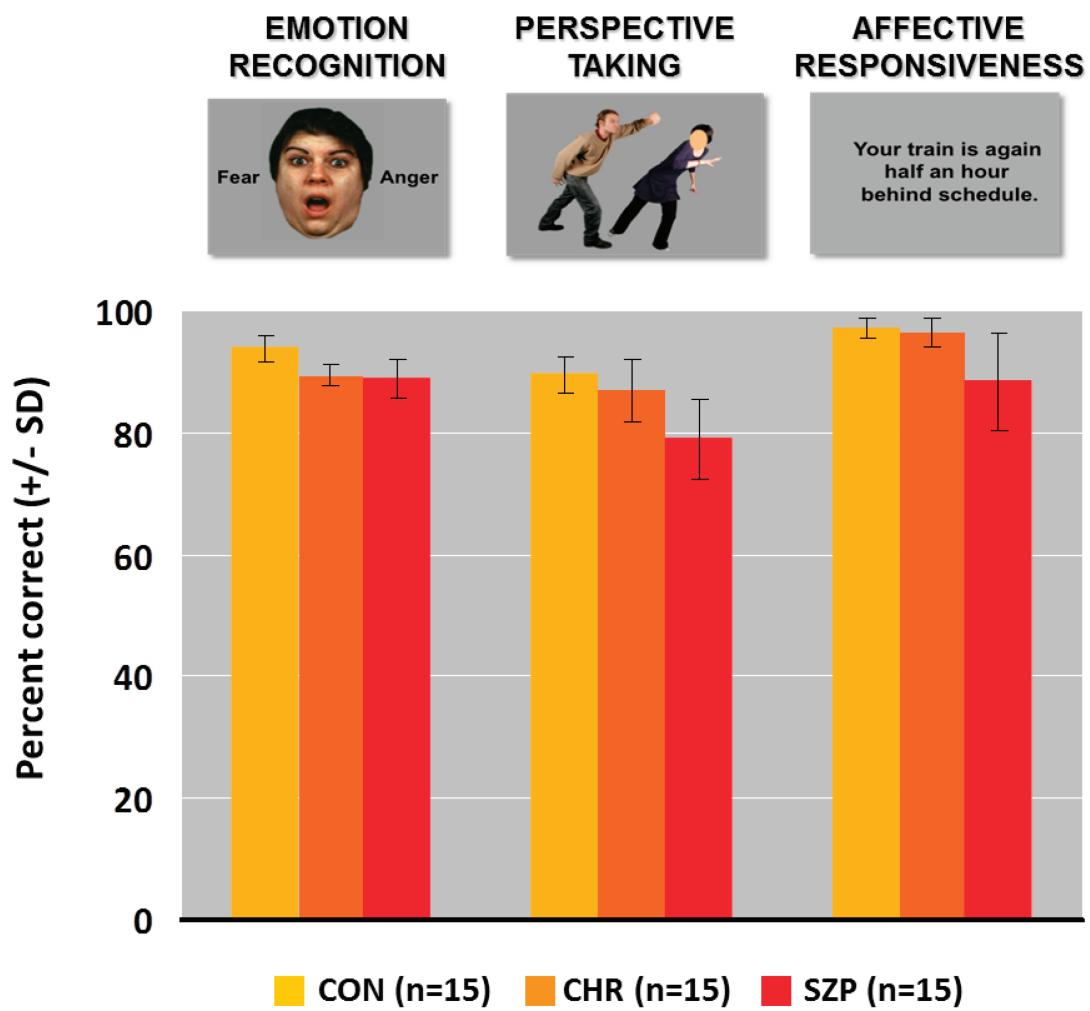


Fig. DS1: Performance (% correct with s.d. (a) and reaction times (b) in emotion recognition (ER), emotional perspective taking (EPT), and affective responsiveness (AR) in healthy controls, individuals at clinical high risk and persons with schizophrenia.

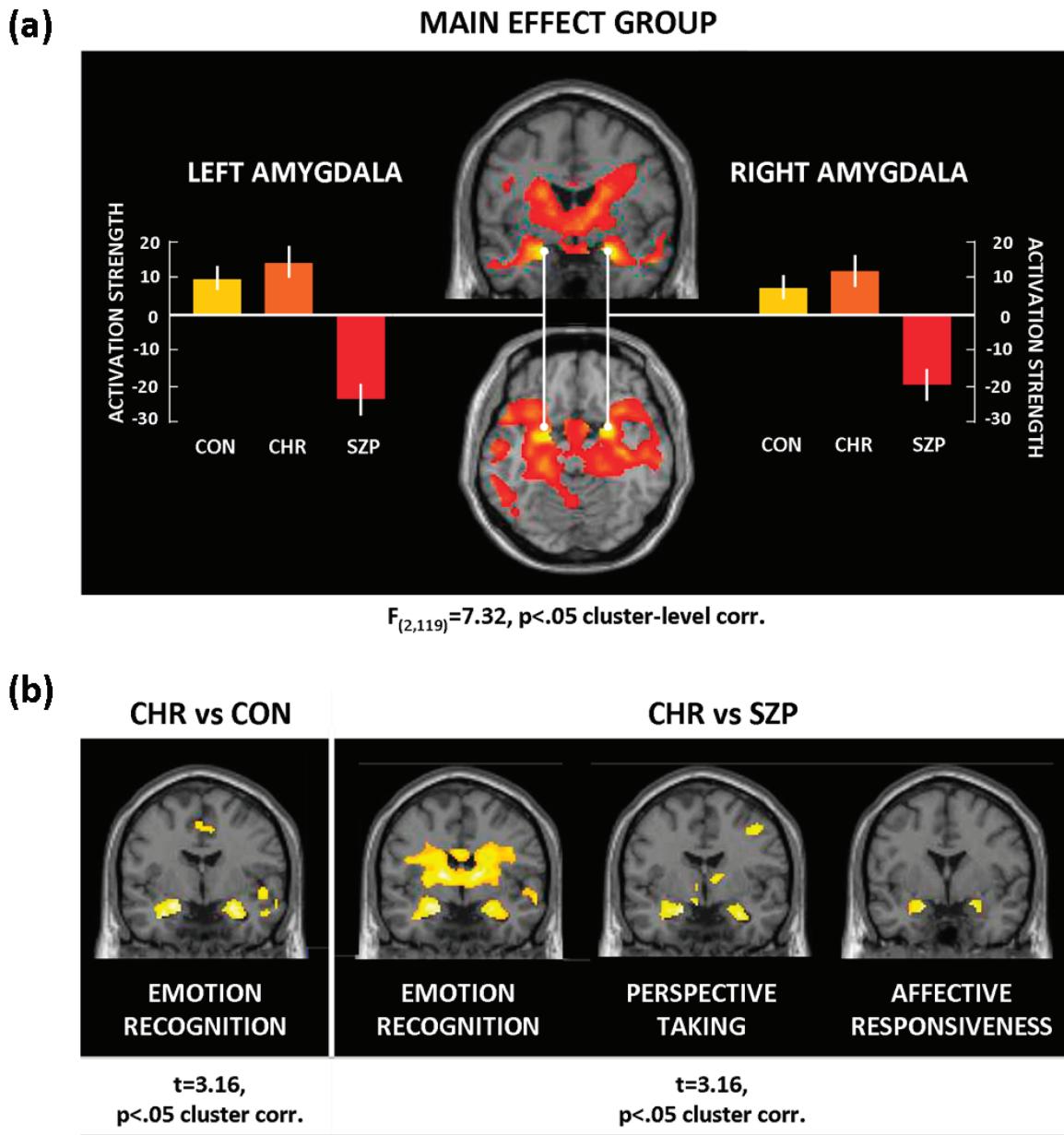


Fig. DS2: (a) Illustration of the significant group effect ($F=5.69, P<0.05$ cluster-level corr.), depicting hyperactivation of CHR vs. CON and SZP in the amygdala bilaterally. (b) Results for post-hoc comparisons for the separate tasks demonstrating significantly stronger amygdala activation in CHR compared to CON for emotion recognition (left). Additionally, CHR showed significantly stronger amygdala responses in all three paradigms compared to SZP.

Table DS1: Results from the post-hoc analysis of the significant group-by-task interaction. For each task MNI coordinates, cluster size, t-value, laterality and region are given (threshold: $t=3.16$, $p<.05$ cluster level corr.)

-2	64	24	1033	5.23	L	Superior medial frontal gyrus
18	-92	0	135	4.83	R	Lingual gyrus
28	0	-18	1706	4.83	R	Amygdala
-18	-4	-20	592	4.80	L	
-42	-70	-6	288	4.68	L	Inferior occipital gyrus
38	-64	18	296	4.64	R	Middle temporal gyrus
-46	-80	16	225	4.08	L	
2	-46	26	177	4.47	R	Posterior cingulate gyrus
-2	-94	-6	55	4.45	L	Cuneus
30	42	-4	187	4.41	R	Middle frontal gyrus
-38	38	-2	127	4.20	L	
-20	18	18	299	4.39	L	Putamen
20	-32	-10	111	4.39	R	Parahippocampal gyrus
-18	-34	-8	93	3.42	L	
-8	-48	-18	168	4.21	L	Cerebellum
56	28	2	96	4.08	R	Inferior frontal gyrus

Emotional perspective taking – CON > CHR

Emotional perspective taking – SZP > CHR

Affective Responsiveness – CHR > CON

-58	-10	-14	80	4.16	L	Middle temporal gyrus
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Affective Responsiveness – CHR > SZP

-18	-4	-20	393	5.64	L	Amygdala
24	0	-18	256	4.56	R	
14	42	56	77	4.74	R	Superior medial frontal gyrus
-18	38	54	344	4.49	L	
-60	-10	-14	65	4.23	L	Middle temporal gyrus
-14	-8	14	312	4.10	L	Thalamus
34	20	-16	60	3.91	R	Inferior frontal gyrus
-50	16	-14	60	3.75	L	Temporal pole

Affective Responsiveness – CON > CHR

-64	-46	20	78	3.93	L	Superior temporal gyrus
50	-36	30	66	3.68	R	Temporo-parietal junction

Affective Responsiveness – SZP > CHR
