

Table S1. Internal consistency of BCIS in GP and SZ

	GP		SZ	
	N=624		N=130	
	Cronbach's alpha	McDonald's omega	Cronbach's alpha	McDonald's omega
<b>BCIS 15-items</b>	0.501	0.222	0.575	0.435
<b>SR</b>	0.564	0.566	0.583	0.587
<b>SC</b>	0.628	0.630	0.608	0.616

GP=General population; SZ= Patients with schizophrenia; BCIS=Beck Cognitive Insight Scale; SR=Self-Reflectiveness; SC=Self-Certainty

Table S2. Inter-item correlation of the BCIS in SZ

IT=Item

	IT 1	IT 2	IT 3	IT 4	IT 5	IT 6	IT 7	IT 8	IT 9	IT 10	IT 11	IT 12	IT 13	IT 14	IT 15
<b>IT 1</b>	1														
<b>IT 2</b>	-0.031	1													
<b>IT 3</b>	0.164	-0.031	1												
<b>IT 4</b>	0.275	-0.052	0.189	1											
<b>IT 5</b>	0.205	0.005	0.114	0.151	1										
<b>IT 6</b>	0.176	-0.186	0.259	0.303	0.28	1									
<b>IT 7</b>	0.083	0.125	0.046	-0.06	-0.207	-0.043	1								
<b>IT 8</b>	-0.009	-0.222	0.047	0.034	0.221	0.295	-0.212	1							
<b>IT 9</b>	-0.022	0.139	-0.054	-0.065	0.011	-0.03	0.341	0.086	1						
<b>IT 10</b>	0.082	0.121	0.099	0.085	-0.003	0.007	0.316	0.014	0.169	1					
<b>IT 11</b>	0.307	0.046	-0.014	0.219	0.114	0.082	0.18	0.088	0.072	0.295	1				
<b>IT 12</b>	-0.104	0.053	-0.046	0.041	0.163	0.262	-0.088	0.353	0.079	-0.023	0.086	1			
<b>IT 13</b>	-0.037	0.371	0.062	-0.004	0.07	-0.061	0.211	-0.081	0.333	0.346	0.076	0.109	1		
<b>IT 14</b>	0.172	0.105	0.051	0.088	0.08	0.1	0.018	0.176	0.096	-0.026	0.135	0.25	0.072	1	
<b>IT 15</b>	0.041	-0.158	0.151	-0.008	0.105	0.064	0.019	0.085	0.097	-0.011	0.138	0.022	-0.022	0.129	1

Table S3. Inter-item correlation of the BCIS in GP

	IT 1	IT 2	IT 3	IT 4	IT 5	IT 6	IT 7	IT 8	IT 9	IT 10	IT 11	IT 12	IT 13	IT 14	IT 15
IT 1	1														
IT 2	-0.189	1													
IT 3	0.003	0.077	1												
IT 4	0.321	-0.111	0.15	1											
IT 5	0.225	-0.158	0.118	0.402	1										
IT 6	0.344	-0.207	0.08	0.252	0.413	1									
IT 7	-0.022	0.308	0.012	0.073	-0.028	-0.081	1								
IT 8	0.165	-0.094	0.032	0.095	0.119	0.258	-0.202	1							
IT 9	-0.011	0.261	-0.099	-0.001	-0.029	-0.118	0.278	-0.036	1						
IT 10	-0.015	0.176	0.028	0.049	0.069	-0.008	0.297	-0.06	0.151	1					
IT 11	0.108	0.007	-0.03	0.138	0.16	0.002	0.185	-0.003	0.171	0.349	1				
IT 12	-0.041	0.034	-0.103	-0.085	-0.054	-0.047	-0.014	0.178	0.078	-0.107	-0.099	1			
IT 13	-0.186	0.347	-0.028	-0.16	-0.164	-0.183	0.307	-0.093	0.317	0.157	0.033	0.16	1		
IT 14	0.013	0.017	-0.122	-0.045	-0.042	0.029	-0.012	0.235	0.096	-0.132	-0.052	0.39	0.134	1	
IT 15	0.265	-0.089	-0.039	0.249	0.281	0.197	-0.01	0.156	0.049	0.063	0.155	0.024	-0.08	0.051	1

IT=Item

Table S4. EFA with orthogonal rotation (varimax) of 6 factors solution and internal consistency of 6 factors solution in SZ

EFA= Exploratory Factor Analysis; IT=Item; The items that reach the acceptable factor loading index ( $\geq 0.40$ ) are highlighted in bold

	Factors						Cronbach's alpha	McDonald's omega
	1	2	3	4	5	6		
IT 8	<b>0.648</b>	-0.007	0.079	-0.236	0.032	0.014	0.521	0.521
IT 12	<b>0.6</b>	0.029	-0.002	0.097	-0.004	0.147		
IT 7	-0.262	<b>0.657</b>	-0.016	0.018	0.133	0.023		
IT 9	0.134	<b>0.538</b>	-0.07	0.122	-0.015	0.101	0.534	0.570
IT 10	0.021	<b>0.419</b>	0.115	0.188	0.329	-0.368		
IT 6	0.351	-0.019	<b>0.535</b>	-0.173	0.041	0.03		
IT 3	-0.034	0.085	<b>0.511</b>	-0.033	-0.043	-0.002	0.500	0.511
IT 4	0.041	-0.107	<b>0.426</b>	0.008	0.274	0.015		
IT 2	-0.077	0.101	-0.091	<b>0.675</b>	0.031	0.12		
IT 11	0.107	0.156	0.034	-0.003	<b>0.733</b>	0.042	0.470	0.470
IT 1	-0.134	-0.021	0.382	-0.041	<b>0.428</b>	0.23		
IT 14	0.242	0.092	0.077	0.079	0.13	<b>0.428</b>		
IT 5	0.3	-0.129	0.314	0.072	0.117	0.075	-	-
IT 13	0.11	0.416	0.077	0.561	0.006	-0.106		
IT 15	0.086	0.136	0.099	-0.188	0.054	0.143		

Table S5. EFA with orthogonal rotation (varimax) and internal consistency of 4 factors solutions in SZ

	Factors				Cronbach's alpha	McDonald's omega
	1	2	3	4		
IT 7	<b>0.721</b>	-0.263	0.025	-0.057	0.573	0.534
IT 9	<b>0.662</b>	0.217	-0.216	-0.026		
IT 10	<b>0.601</b>	-0.044	0.238	0.134		
IT 12	0.011	<b>0.766</b>	-0.124	0.098	0.521	0.506
IT 8	-0.069	<b>0.693</b>	-0.013	-0.318		
IT 5	-0.136	<b>0.473</b>	0.37	0.103		
IT 14	0.165	<b>0.462</b>	0.112	0.025	0.455	0.444
IT 1	0.09	-0.06	<b>0.708</b>	-0.031		
IT 4	-0.089	0.094	<b>0.686</b>	0.099		
IT 3	0.054	0.021	<b>0.473</b>	-0.118	0.000	-0.373
IT 2	0.253	0.021	-0.07	<b>0.759</b>		
IT 15	0.266	0.141	0.051	<b>-0.602</b>		
IT 11	0.409	0.104	0.455	-0.075		
IT 6	-0.117	0.465	0.464	-0.185		
IT 13	0.55	0.176	-0.034	0.511		

EFA= Exploratory Factor

Analysis; IT=Item; The items that reach the acceptable factor loading index ( $\geq 0.40$ ) are highlighted in bold

Table S6. EFA with orthogonal rotation (varimax) and internal consistency of 3 factors solution in SZ

	Factors			Cronbach's alpha	McDonald's omega
	1	2	3		
IT 13	<b>0.724</b>	0.111	-0.051	0.624	0.618
IT 9	<b>0.615</b>	0.197	-0.105		
IT 7	<b>0.611</b>	-0.276	0.156		
IT 10	<b>0.582</b>	-0.069	0.301		
IT 2	<b>0.55</b>	-0.059	-0.176		
IT 12	0.108	<b>0.751</b>	-0.159	0.521	0.506
IT 8	-0.149	<b>0.721</b>	0.018		
IT 5	-0.072	<b>0.47</b>	0.303		
IT 14	0.183	<b>0.455</b>	0.116		
IT 1	0.02	-0.048	<b>0.707</b>		
IT 4	-0.076	0.098	<b>0.628</b>	0.509	0.487
IT 11	0.317	0.106	<b>0.516</b>		
IT 3	-0.028	0.038	<b>0.489</b>		
IT 6	-0.181	0.491	0.453		
IT 15	-0.004	0.19	0.204		

EFA= Exploratory Factor Analysis; IT=Item; The items that reach the acceptable factor loading index ( $\geq |0.40|$ ) are highlighted in bold

Table S7. EFA with orthogonal rotation (varimax) and internal consistency of 2 factors solution in SZ

	Factors		Cronbach's alpha	McDonald's omega
	1	2		
IT 6	<b>0.671</b>	-0.169	0.610	0.607
IT 4	<b>0.51</b>	0.011		
IT 5	<b>0.549</b>	-0.084		
IT 8	<b>0.531</b>	-0.234		
IT 1	<b>0.458</b>	0.135		
IT 11	<b>0.43</b>	0.377	0.624	0.618
IT 12	<b>0.425</b>	-0.014		
IT 14	<b>0.404</b>	0.14		
IT 13	0.031	<b>0.687</b>		
IT 7	-0.099	<b>0.657</b>		
IT 10	0.15	<b>0.626</b>	0.624	0.618
IT 9	0.056	<b>0.562</b>		
IT 2	-0.174	<b>0.52</b>		
IT 3	0.369	0.043		
IT 15	0.279	0.004		

EFA= Exploratory Factor Analysis; IT=Item; The items that reach the acceptable factor loading index ( $\geq |0.40|$ ) are highlighted in bold

Table S8. EFA with orthogonal rotation (varimax) and internal consistency of 4 factors solution in GP

	Factors				Cronbach's alpha	McDonald's omega
	1	2	3	4		
IT 5	<b>0.631</b>	-0.027	-0.076	-0.039	0.5	0.414
IT 4	<b>0.58</b>	0.034	-0.11	-0.053		
IT 6	<b>0.574</b>	-0.166	0.052	-0.115		
IT 1	<b>0.5</b>	-0.112	0.029	0.087		
IT 15	<b>0.435</b>	0.011	0.086	0.169		
IT 7	0.012	<b>0.598</b>	-0.112	0.047	0.641	0.636
IT 13	-0.23	<b>0.561</b>	0.186	-0.038		
IT 2	-0.211	<b>0.547</b>	0.005	-0.167		
IT 9	-0.015	<b>0.478</b>	0.124	0.157		
IT 10	0.111	<b>0.41</b>	-0.239	0.242		
IT 14	0.021	0.055	<b>0.653</b>	0.047	0.526	0.511
IT 12	-0.059	0.064	<b>0.572</b>	0.002		
IT 8	0.287	-0.149	<b>0.345</b>	-0.011		
IT 11	0.242	0.268	-0.176	<b>0.479</b>		
IT 3	0.142	0.046	-0.178	-0.302		

EFA= Exploratory Factor Analysis; IT=Item; The items that reach the acceptable factor loading index ( $\geq |0.40|$ ) are highlighted in bold

Table S9. EFA with orthogonal rotation (varimax) and internal consistency of 3 factors solution in GP

	Factors			Cronbach's alpha	McDonald's omega
	1	2	3		
IT 13	<b>0.689</b>	-0.006	-0.128	0.666	0.667
IT 10	<b>0.646</b>	0.062	-0.166		
IT 5	<b>0.641</b>	-0.197	0.02		
IT 2	<b>0.625</b>	-0.076	0.013		
IT 15	<b>0.576</b>	0.096	0.115		
IT 8	-0.015	<b>0.702</b>	-0.088	0.630	0.628
IT 14	0.004	<b>0.62</b>	0.228		
IT 11	-0.279	<b>0.589</b>	0.282		
IT 1	0.14	<b>0.587</b>	-0.273		
IT 7	-0.29	<b>0.562</b>	0.063		
IT 3	0.327	<b>0.465</b>	-0.192	0.526	0.511
IT 6	0.064	0.025	<b>0.767</b>		
IT 4	-0.033	0.028	<b>0.737</b>		
IT 12	0.386	-0.195	<b>0.459</b>		
IT 9	0.103	-0.02	-0.288		

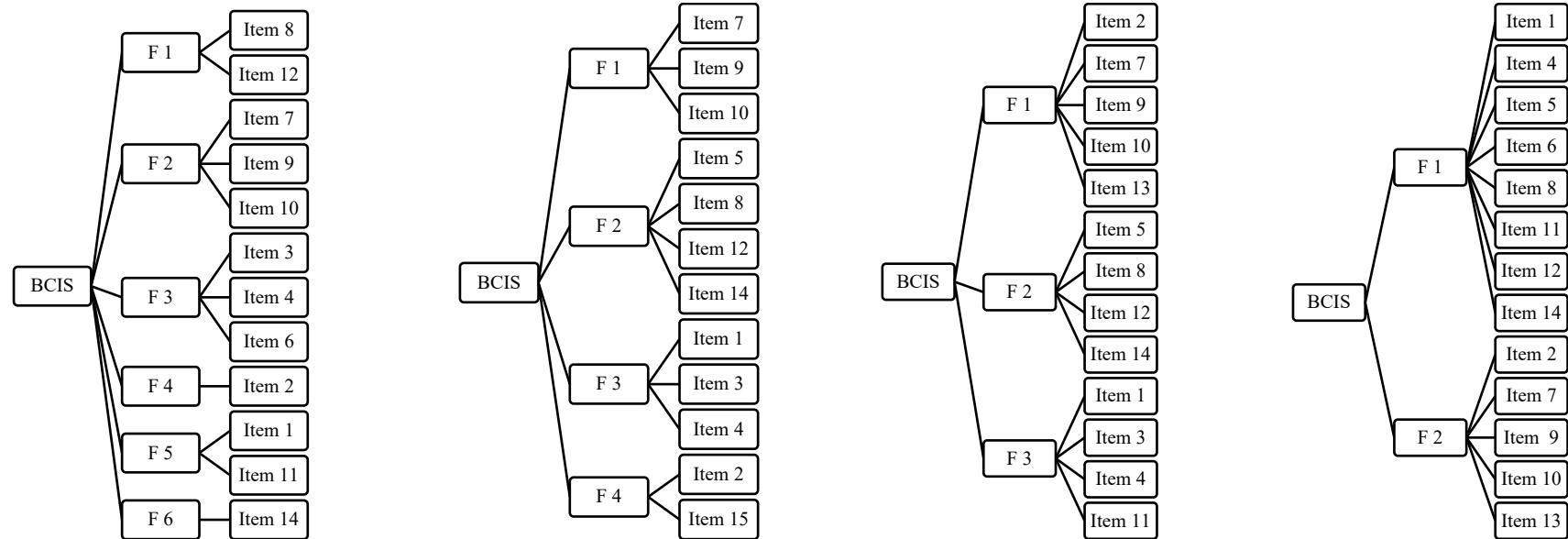
EFA= Exploratory Factor Analysis; IT=Item; The items that reach the acceptable factor loading index ( $\geq |0.40|$ ) are highlighted in bold

Table S10. EFA with orthogonal rotation (varimax) and internal consistency of 2 factors solution in GP

	Factors		Cronbach's alpha	McDonald's omega
	1	2		
IT 5	<b>0.625</b>	-0.069	0.666	0.667
IT 4	<b>0.579</b>	-0.003		
IT 6	<b>0.526</b>	-0.231		
IT 1	<b>0.499</b>	-0.129		
IT 15	<b>0.431</b>	0.001		
IT 7	0.052	<b>0.62</b>	0.641	0.636
IT 13	-0.244	<b>0.501</b>		
IT 2	-0.217	<b>0.488</b>		
IT 9	-0.005	<b>0.469</b>		
IT 10	0.184	<b>0.469</b>		
IT 12	-0.126	-0.014	0.33	
IT 3	0.115	-0.006		
IT 14	-0.062	-0.028		
IT 11	0.303	0.33		
IT 8	0.207	-0.209		

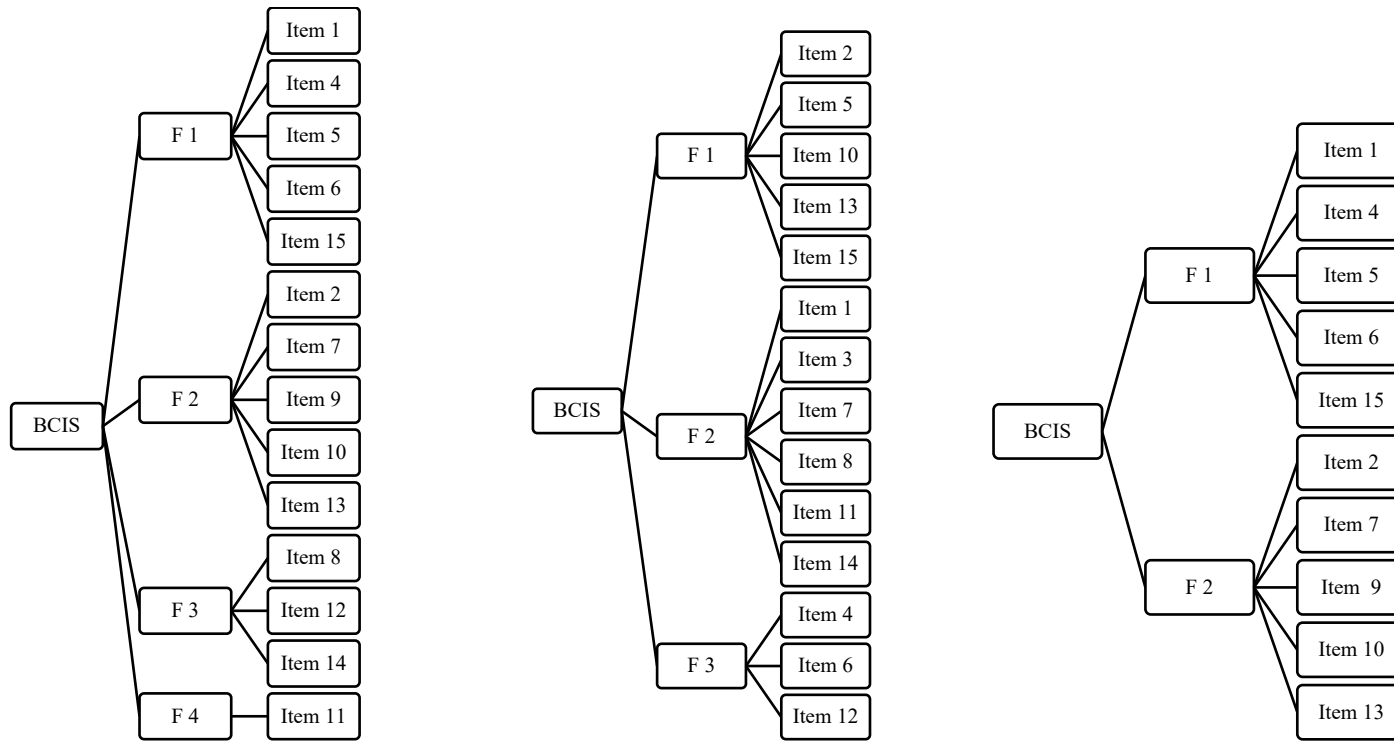
EFA= Exploratory Factor Analysis; IT=Item; The items that reach the acceptable factor loading index ( $\geq |0.40|$ ) are highlighted in bold

**Figure S1.** EFAs path diagram of BCIS in SZ



BCIS=Beck cognitive insight scale; F=Factor; SZ= Patients with schizophrenia

**Figure S2.** EFAs path diagram of BCIS in GP



BCIS=Beck cognitive insight scale; F=Factor: GP= General population