**Supplemental data 1**

Table 1. Baseline Demographic and Clinical Characteristics Comparison of Clinical High-Risk Subjects Who Were in Validation Sample or in Development Sample.

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| --- | --- | --- | --- | --- |
| Variables | Development Sample | Validation Sample | *t/Z/χ2*  c | *p* |
| Cases [n(%)] | 417 | 100 | - | - |
| Age(years) [*Mean (SD)*]  | 20.9(6.4) | 18.9(5.6) | *t* = 3.198 | 0.002\* |
| Male [*n(%)*] | 200(48.0) | 44(44.0) | *χ2* = 0.508 | 0.476 |
| Education (years) [*Mean (SD)*]  | 11.4(3.0) | 10.6(3.0) | *t* = 2.141 | 0.033\* |
| Structured Interview of Prodrome Syndromes (SIPS/SOPS)  |
| Family History a [n(%)] | 45(10.8) | 3(3.0) | *χ2* = 5.814 | 0.016\* |
| Schizotypal Personality Disorder [n(%)] | 20(4.8) | 1(1.0) | *χ2* = 2.983 | 0.084 |
| Highest GAF in past year [Mean (SD)] | 78.6(4.7) | 79.6(3.2) | *Z* = 3.000 | 0.003\* |
| Current GAF [Mean (SD)] | 55.2(7.8) | 57.9(5.7) | *Z* = 3.756 | <0.001\* |
| Drop GAF b [Mean (SD)] | 23.4(7.8) | 21.7(5.6) | *Z* = 2.387 | 0.017\* |
| Positive Symptoms [Median, Mean(SD)] |
| P1 Unusual Thought Content  | 4, 2.8(1.9) | 4, 3.4(1.9) | *Z* = 2.955 | 0.003\* |
| P2 Suspiciousness  | 4, 3.1(1.9) | 4, 3.3(1.8) | *Z* = 1.144 | 0.253 |
| P3 Grandiose Ideas  | 0, 0.2(0.6) | 0, 0.1(0.6) | *Z* = 0.619 | 0.536 |
| P4 Perceptual Abnormalities | 3, 2.5(2.1) | 4, 2.8(2.1) | *Z* = 1.688 | 0.091 |
| P5 Disorganized Communication  | 0, 0.5(1.0) | 0, 0.5(1.1) | *Z* = 0.206 | 0.837 |
| Negative Symptoms [Median, Mean(SD)] |
| N1 Social Anhedonia | 3, 2.6(1.3) | 3, 2.6(1.3) | *Z* = 0.161 | 0.872 |
| N2 Avolition | 3, 2.5(1.3) | 2, 2.4(1.1) | *Z* =0.889 | 0.374 |
| N3 Expression of Emotion | 1, 1.4(1.4) | 1, 1.3(1.4) | *Z* =0.180 | 0.857 |
| N4 Experience of Emotions and self | 1, 1.4(1.4) | 1, 1.2(1.2) | *Z* =0.833 | 0.405 |
| N5 Ideational Richness | 0, 0.5(1.0) | 0, 0.7(1.2) | *Z* =1.056 | 0.291 |
| N6 Occupational Functioning | 3, 3.4(1.6) | 3, 3.5(1.3) | *Z* = 1.136 | 0.256 |
| Disorganization Symptoms [Median, Mean(SD)] |
| D1 Odd Behavior of Appearance | 0, 0.7(1.1) | 0, 0.7(1.0) | *Z* = 0.161 | 0.872 |
| D2 Bizarre Thinking | 2, 2.01.9) | 3, 3.0(1.9) | *Z* = 4.537 | <0.001\* |
| D3 Trouble with Focus and Attention | 2, 2.4(1.1) | 2, 2.4(0.9) | *Z* = 0.320 | 0.749 |
| D4 Impairment in Personal Hygiene | 0, 0.5(0.8) | 0, 0.3(0.5) | *Z* = 2.211 | 0.027\* |
| General Symptoms [Median, Mean(SD)] |
| G1 Sleep Disturbance | 3, 2.4(1.3) | 2, 2.2(1.1) | *Z* = 1.860 | 0.063 |
| G2 Dysphoric Mood | 3, 3.1(1.4) | 3, 2.9(1.1) | *Z* = 1.170 | 0.242 |
| G3 Motor Disturbances | 0, 0.2(0.6) | 0, 0.4(0.7) | *Z* = 1.756 | 0.079 |
| G4 Impaired Tolerance to Normal Stress | 3, 3.2(1.4) | 4, 3.8(1.1) | *Z* = 3.762 | <0.001\* |

*Note:* a Family History:having at least one first-degree relative with psychosis; b Drop GAF: GAF (Global Assessment of Functioning) score baseline from highest in the past year; c *t/Z/χ2* : *t* for independent t test, *Z* for Mann-Whitney U Test (nonparametric test), *χ2* for kappa test. \* *p* < 0.05.