**Table S1:** Measures of central tendency and dispersion for SNAS-C scores.

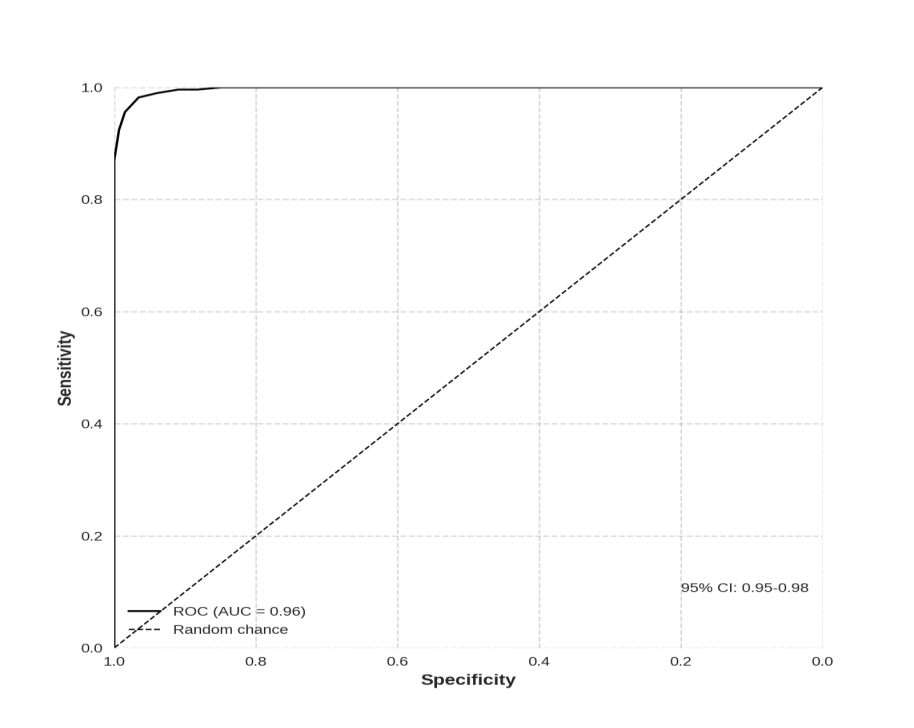
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Mean** | **SD** | **Shapiro-Wilk** | ***p*-value** |
| Relapse | 11.843 | 3.648 | 0.954 | <0.001 |
| Conflict | 8.304 | 2.868 | 0.958 | <0.001 |
| Withdrawal symptoms | 11.724 | 3.814 | 0.948 | <0.001 |
| Tolerance | 9.220 | 2.654 | 0.949 | <0.001 |
| Mood modification | 9.788 | 2.533 | 0.936 | <0.001 |
| Salience | 12.490 | 3.281 | 0.965 | <0.001 |
| Item 1 | 2.948 | 0.979 | 0.901 | <0.001 |
| Item 2 | 3.092 | 1.084 | 0.893 | <0.001 |
| Item 3 | 3.214 | 1.024 | 0.878 | <0.001 |
| Item 4 | 3.236 | 1.032 | 0.874 | <0.001 |
| Item 5 | 3.048 | 1.065 | 0.891 | <0.001 |
| Item 6 | 3.377 | 0.968 | 0.844 | <0.001 |
| Item 7 | 3.363 | 0.941 | 0.846 | <0.001 |
| Item 8 | 3.082 | 1.015 | 0.892 | <0.001 |
| Item 9 | 3.255 | 1.017 | 0.869 | <0.001 |
| Item 10 | 2.883 | 1.068 | 0.904 | <0.001 |
| Item 10 | 3.000 | 1.060 | 0.896 | <0.001 |
| Item 12 | 2.929 | 1.079 | 0.902 | <0.001 |
| Item 13 | 2.939 | 1.076 | 0.901 | <0.001 |
| Item 14 | 2.856 | 1.078 | 0.904 | <0.001 |
| Item 15 | 2.839 | 1.074 | 0.905 | <0.001 |
| Item 16 | 2.740 | 1.095 | 0.901 | <0.001 |
| Item 17 | 2.725 | 1.121 | 0.904 | <0.001 |
| Item 18 | 2.950 | 1.074 | 0.901 | <0.001 |
| Item 19 | 2.904 | 1.088 | 0.901 | <0.001 |
| Item 20 | 2.923 | 1.061 | 0.904 | <0.001 |
| Item 21 | 3.065 | 1.062 | 0.893 | <0.001 |

Note: Salience: Item1-Item4; Mood Modification: Item5-Item7; Tolerance: Item8-Item10; Withdrawal: Item11-Item14; Conflict: Item15-Item17; Relapse: Item18-Item21.

**Table S2:** Descriptive information for each profile based on the optimal three latent profiles.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Group** | | **Mean (SD)** | **Score Ranges** | **Cohen’s d** |
| LPA | |  |  |  |
|  | No-risk SNAS-C | 42.17 (8.21) | 21-57 | d1-2=-3.385 |
|  | Low-risk SNAS-C | 63.83 (5.17) | 49-77 | d2-3= -3.190 |
|  | At-risk SNAS-C | 81.89 (6.45) | 67-105 | d1-3= -5.397 |
| ROC | |  |  |  |
|  | Negatives | 56.26 (12.15) | 21-77 | d1-2= -2.347 |
|  | Positives | 81.89 (6.45) | 67-105 |  |

Note:SD, standard deviation;LPA, latent profile analysis; ROC, receiver operating characteristic; SNAS-C, Social Networking Addiction Scale-Chinese.



**Figure S1:** ROC curve for the SNAS-C for diagnosing SNA.

**Table S3:** Critical values based on the at-risk group of SNAS-C derived through latent profile analysis.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Threshold** | **TP** | **FP** | **FN** | **TN** | **Sensitivity** | **Specificity** | **PPV** | **NPV** | **Accuracy** | **Youden’s Index** |
| 68 | 500 | 180 | 0 | 1012 | 1.000 | 0.849 | 0.735 | 1.000 | 0.894 | 0.849 |
| 69 | 498 | 140 | 2 | 1052 | 0.996 | 0.883 | 0.781 | 0.998 | 0.916 | 0.879 |
| 70 | 498 | 108 | 2 | 1084 | 0.996 | 0.909 | 0.822 | 0.998 | 0.935 | 0.905 |
| 71 | 495 | 73 | 5 | 1119 | 0.990 | 0.939 | 0.871 | 0.996 | 0.954 | 0.929 |
| 72 | 491 | 41 | 9 | 1151 | 0.982 | 0.966 | 0.923 | 0.992 | 0.970 | 0.948 |
| 73 | 478 | 18 | 22 | 1174 | 0.956 | 0.985 | 0.964 | 0.982 | 0.976 | 0.941 |
| 74 | 462 | 8 | 38 | 1184 | 0.924 | 0.993 | 0.983 | 0.969 | 0.973 | 0.917 |

Note: TP, true positive; FP, false positive; FN, false negative; TN, true negative; PPV, positive predictive value; NPV, negative predictive value.