

# 야뇨증을 보이는 일반아동에서의 정서-행동 문제

## EMOTIONAL AND BEHAVIORAL PROBLEMS OF NOCTURNAL ENURESIS CHILDREN IN GENERAL POPULATION

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연구 목적 :

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중심 단어 :

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(Table 2).

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(Table 4).

### 3. 성별에 따른 환자군과 대조군의 비교

가  
(Table 3).

### 4. 학년에 따른 환자군과 대조군의 비교

가  
(Table 5).

**Table 2.** Comparison of item scores between enuresis group and normal group (mean ± S.D.)

|   | Enuresis group (N = 72) | Normal group (N = 72) | t-value | p-value |
|---|-------------------------|-----------------------|---------|---------|
| Afraid to try new things                        | 0.54 ± 0.65             | 0.25 ± 0.44           | 3.166   | 0.002** |
| Fears certain animals, situations, or places    | 0.64 ± 0.70             | 0.28 ± 0.45           | 3.695   | 0.000** |
| Too fearful or anxious                          | 0.56 ± 0.67             | 0.24 ± 0.43           | 3.402   | 0.001** |
| Anxious/Fearful subscale total score            | 2.71 ± 2.53             | 1.61 ± 1.21           | 3.321   | 0.001** |
| Self-conscious or easily embarrassed            | 0.53 ± 0.68             | 0.25 ± 0.44           | 2.929   | 0.004** |
| Sulks a lot                                     | 0.54 ± 0.63             | 0.32 ± 0.47           | 2.401   | 0.018*  |
| Depressed subscale total score                  | 2.22 ± 2.31             | 1.46 ± 1.24           | 2.467   | 0.015*  |
| Disobedient                                     | 0.82 ± 0.64             | 0.24 ± 0.43           | 6.463   | 0.000** |
| Punishment doesn't change his/her behavior      | 0.54 ± 0.65             | 0.19 ± 0.40           | 3.852   | 0.000** |
| Delinquent Behavior subscale total score        | 2.61 ± 2.00             | 1.53 ± 1.21           | 3.927   | 0.000** |
| Can't concentrate, can't pay attention for long | 0.93 ± 0.72             | 0.24 ± 0.43           | 7.047   | 0.000** |
| Can't sit still or restless                     | 0.72 ± 0.76             | 0.24 ± 0.43           | 4.687   | 0.000** |
| Can't stand waiting ; wants everything now      | 0.75 ± 0.71             | 0.11 ± 0.32           | 6.998   | 0.000** |
| Quickly shifts from one activity to another     | 0.54 ± 0.65             | 0.19 ± 0.40           | 3.852   | 0.000** |
| Inattentive/Hyperactive subscale total score    | 4.17 ± 2.86             | 1.79 ± 1.03           | 6.620   | 0.000** |
| Acts too young for age                          | 0.56 ± 0.67             | 0.29 ± 0.46           | 2.762   | 0.006** |
| Total score                                     | 19.32 ± 11.79           | 14.18 ± 7.34          | 3.140   | 0.002** |

\*p < .05, \*\*p < .01

**Table 3.** Comparison of subscale item scores between enuresis group and normal group in male (mean ± S.D.)

|                         | Enuresis group (N = 46) | Normal group (N = 46) | t-value | p-value |
|-------------------------|-------------------------|-----------------------|---------|---------|
| Somatic complaints      | 0.85 ± 1.35             | 0.74 ± 1.18           | 0.411   | 0.682   |
| Anxious/fearful         | 2.48 ± 2.55             | 1.65 ± 1.30           | 1.954   | 0.054   |
| Depressed               | 2.13 ± 2.46             | 1.57 ± 1.29           | 1.381   | 0.171   |
| Withdrawn               | 1.80 ± 2.22             | 2.13 ± 2.54           | -0.655  | 0.514   |
| Aggressive behavior     | 1.17 ± 1.47             | 1.22 ± 1.81           | -0.127  | 0.900   |
| Delinquent behavior     | 2.76 ± 1.99             | 1.52 ± 1.24           | 3.581   | 0.001** |
| Inattentive/hyperactive | 4.65 ± 2.97             | 2.04 ± 1.05           | 5.618   | 0.000** |
| Developmental delay     | 2.20 ± 1.95             | 2.28 ± 1.78           | -0.223  | 0.824   |
| Sleep problems          | 1.91 ± 1.47             | 2.43 ± 1.26           | -1.826  | 0.071   |
| Total                   | 19.96 ± 12.18           | 15.59 ± 7.71          | 2.057   | 0.043*  |

\*p < .05, \*\*p < .01

(Table 6).

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**Table 4.** Comparison of subscale item scores between enuresis group and normal group in female (mean  $\pm$  S.D.)

|                         | Enuresis group (N = 26) | Normal group (N = 26) | t-value | p-value |
|-------------------------|-------------------------|-----------------------|---------|---------|
| Somatic complaints      | 0.96 $\pm$ 1.64         | 0.77 $\pm$ 1.07       | 0.502   | 0.618   |
| Anxious/fearful         | 3.12 $\pm$ 2.49         | 1.54 $\pm$ 1.03       | 2.987   | 0.004** |
| Depressed               | 2.38 $\pm$ 2.08         | 1.27 $\pm$ 1.15       | 2.393   | 0.021*  |
| Withdrawn               | 1.50 $\pm$ 1.53         | 1.96 $\pm$ 1.80       | -0.996  | 0.324   |
| Aggressive behavior     | 0.58 $\pm$ 0.81         | 0.46 $\pm$ 0.76       | 0.530   | 0.598   |
| Delinquent behavior     | 2.35 $\pm$ 2.04         | 1.54 $\pm$ 1.17       | 1.751   | 0.086   |
| Inattentive/hyperactive | 3.31 $\pm$ 2.49         | 1.35 $\pm$ 0.85       | 3.798   | 0.000** |
| Developmental delay     | 2.08 $\pm$ 2.13         | 1.69 $\pm$ 1.74       | 0.713   | 0.479   |
| Sleep problems          | 1.92 $\pm$ 1.35         | 1.12 $\pm$ 1.21       | 2.267   | 0.028*  |
| Total                   | 18.19 $\pm$ 11.22       | 11.69 $\pm$ 5.99      | 2.606   | 0.012*  |

\*p &lt; .05, \*\*p &lt; .01

**Table 5.** Comparison of subscale item scores between enuresis group and normal group in 1st, 2nd, 3rd grades (mean  $\pm$  S.D.)

|                         | Enuresis group (N = 42) | Normal group (N = 42) | t-value | p-value |
|-------------------------|-------------------------|-----------------------|---------|---------|
| Somatic complaints      | 1.07 $\pm$ 1.55         | 0.74 $\pm$ 1.15       | 1.119   | 0.267   |
| Anxious/fearful         | 2.83 $\pm$ 2.33         | 1.71 $\pm$ 1.20       | 2.773   | 0.007** |
| Depressed               | 2.33 $\pm$ 1.96         | 1.67 $\pm$ 1.30       | 1.838   | 0.070   |
| Withdrawn               | 1.81 $\pm$ 1.84         | 1.98 $\pm$ 2.01       | -0.397  | 0.692   |
| Aggressive behavior     | 1.00 $\pm$ 1.23         | 1.07 $\pm$ 1.70       | -0.220  | 0.826   |
| Delinquent behavior     | 2.43 $\pm$ 1.89         | 1.76 $\pm$ 1.30       | 1.883   | 0.063   |
| Inattentive/hyperactive | 3.62 $\pm$ 2.65         | 1.88 $\pm$ 1.06       | 3.945   | 0.000** |
| Developmental delay     | 2.14 $\pm$ 2.02         | 2.07 $\pm$ 1.61       | 0.179   | 0.858   |
| Sleep problems          | 2.00 $\pm$ 1.41         | 1.79 $\pm$ 1.39       | 0.701   | 0.486   |
| Total                   | 19.24 $\pm$ 11.60       | 14.67 $\pm$ 7.73      | 2.126   | 0.037*  |

\*p &lt; .05, \*\*p &lt; .01

**Table 6.** Comparison of subscale item scores between enuresis group and normal group in 4th, 5th, 6th grades (mean  $\pm$  S.D.)

|                         | Enuresis group (N = 30) | Normal group (N = 30) | t-value | p-value |
|-------------------------|-------------------------|-----------------------|---------|---------|
| Somatic Complaints      | 0.63 $\pm$ 1.27         | 0.77 $\pm$ 1.14       | -0.428  | 0.670   |
| Anxious/Fearful         | 2.53 $\pm$ 2.83         | 1.47 $\pm$ 1.22       | 1.897   | 0.063   |
| Depressed               | 2.07 $\pm$ 2.77         | 1.17 $\pm$ 1.12       | 1.653   | 0.104   |
| Withdrawn               | 1.53 $\pm$ 2.21         | 2.20 $\pm$ 2.67       | -1.054  | 0.296   |
| Aggressive Behavior     | 0.90 $\pm$ 1.40         | 0.77 $\pm$ 1.33       | 0.378   | 0.707   |
| Delinquent Behavior     | 2.87 $\pm$ 2.16         | 1.20 $\pm$ 1.00       | 3.836   | 0.000** |
| Inattentive/Hyperactive | 4.93 $\pm$ 3.02         | 1.67 $\pm$ 0.99       | 5.633   | 0.000** |
| Developmental Delay     | 2.17 $\pm$ 2.02         | 2.07 $\pm$ 2.02       | 0.192   | 0.848   |
| Sleep Problems          | 1.80 $\pm$ 1.45         | 2.20 $\pm$ 1.37       | -1.097  | 0.277   |
| Total                   | 19.43 $\pm$ 12.26       | 13.50 $\pm$ 6.81      | 2.318   | 0.024*  |

\*p &lt; .05, \*\*p &lt; .01





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This study was designed to evaluate the emotional and behavioral problems of nocturnal enuresis children(n = 72) in general population. And this was compared with normal control children(n = 72). The behavioral problems were assessed using a modified child behavior checklist(CBCL) parent form.

The results indicated that enuretic children were rated significantly more anxious, fearful, depressed, inattentive, hyperactive, delinquent on the modified CBCL rating when compared to the age-, grade- and sex-matched normal control children.

Finally, it was an impressive evidence that there exist many emotional and behavioral problems in children with nocturnal enuresis.

**KEY WORDS** : Enuresis · Behavior · CBCL.