Dysthymia Characteristic of Heavy Alcohol Use in Depressed Adolescents

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Introduction

The increased prevalence of heavy alcohol use and abuse among depressed adolescents has been well documented (as reviewed in Bukstein et al 1989). As an example, Greenbaum et al (1991) studied 547 adolescents having serious emotional disturbances, and found that adolescents with severe depressive disorders were more likely to be diagnosed with a substance-abuse disorder, including alcohol abuse/dependency, than were adolescents without depressive disorders (48.3% versus 17.0%). A high prevalence of alcohol abuse in depressed adolescents also has been documented in nonclinical samples (Deykin et al 1987).

Recognition and appropriate treatment of alcohol abuse in depressed adolescents are critical. Both alcohol abuse and depression tend to be chronic conditions with high rates of secondary problems. The co-occurrence of alcohol abuse and depression is particularly problematic, having been associated with an increased risk for suicidal behavior in adolescents (King et al 1993; Pfeffer et al 1988). Despite the importance of identifying and treating each of these conditions, common clinical features make differentiation difficult. Studies with adults suggest that depression may actually motivate treatment-seeking in alcohol abusers (Regier et al 1990), but that the alcohol abuse often goes unrecognized by treatment providers (Helzer and Pryzbeck 1988). The recognition of alcohol-abuse patterns in depressed adolescents would be assisted by information on the phenomenology of depression in adolescents who abuse alcohol. This study was conducted to determine the phenomenology of depressive symptoms in depressed adolescent inpatients reporting moderate to heavy alcohol consumption.

Methods

Subjects included 42 patients (30 girls, 12 boys) with DSM-III-R major depression admitted to the University of Michigan Adolescent Psychiatry Inpatient Unit. Diagnostic information was obtained from clinical interviews with adolescent and parent as well as 24-h behavioral observation. A subset of adolescents was interviewed using the Schedule for Affective Disorders and Schizophrenia for School-Age Children, Present Episode [K-SADS-P; Puig-Antich and Ryan 1986; n = 18 (43%)]. Evaluation information was reviewed in a multidisciplinary case conference and diagnoses were established by consensus of the program director and the child psychiatry fellow. Patients ranged in age between 12.9 and 18.4 years (mean = 15.7 years). Their socioeconomic status (SES) (Hollingshead and Redlich 1958) was distributed across levels (I: 9.5%; II: 11.9%; III: 21.4%; IV: 35.7%; V: 21.4%).

Depression severity was measured with total scores on the Hamilton Rating Scale for Depression (HRSD; Hamilton 1960) and the Children's Depression Rating Scale—Revised (CDRS-R; Poznanski et al 1984). The HRSD and the CDRS-R have been used extensively in child and adolescent research (King et al 1993; Shain et al 1991). These instruments are highly intercorrelated and have been validated using standardized diagnostic interviews and self-report measures of child and adolescent depression (Shain et al 1990). The CDRS-R was scored in terms of four subscales, the Mood, Somatic, Subjective, and Behavior scales, providing a symptom profile for each adolescent.

Quantity and frequency of alcohol consumption were assessed with the alcohol use section of the Diagnostic Interview for Children and Adolescents (DICA; Herjanic and Campbell 1977). The DICA is a structured interview that was completed on all subjects by a trained nurse. Alcohol consumption was classified as None/Minimal (0-1 drinks/any frequency or 2-3 drinks/less than once monthly) or Moderate/Heavy (a fifth or more/any frequency or > 2 drinks/at least once monthly). Twenty-five patients reported none/minimal alcohol use; 17 reported moderate/heavy use. There were no differences in the distribution of gender and SES between alcohol-consumption groups. The Moderate/Heavy consumption group, however, was significantly older than the None/Minimal group [16.6 ± 1.0 versus 15.1 ± 1.3 years; t (40) = 4.06, p < 0.001].

Comparisons between Moderate/Heavy and None/Minimal alcohol consumption groups were conducted using t-tests (total depression severity), univariate F tests (specific symptom severity), X², Fisher's exact tests (presence of preceding dysthy-
Table 1. Alcohol Consumption and CDRS-R Scores (Means and SD) among Depressed Adolescent Inpatients

<table>
<thead>
<tr>
<th>CDRS-R subscales</th>
<th>None/minimal (n = 25)</th>
<th>Moderate/heavy (n = 17)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mood</td>
<td>15.3 (4.7)</td>
<td>15.6 (4.8)</td>
</tr>
<tr>
<td>Somatic</td>
<td>16.4 (5.0)</td>
<td>19.5 (5.3)</td>
</tr>
<tr>
<td>Subjective</td>
<td>12.6 (4.5)</td>
<td>14.3 (5.5)</td>
</tr>
<tr>
<td>Behavior</td>
<td>9.5 (4.3)</td>
<td>13.1 (3.8)</td>
</tr>
</tbody>
</table>

CDRS-R items:

- School work: 3.4 (2.1) vs. 5.2 (2.1) 
- Capacity for fun: 3.3 (1.7) vs. 4.4 (1.2)
- Social withdrawal: 2.8 (1.7) vs. 3.5 (1.4)
- Sleep: 7.4 (1.6) vs. 3.5 (1.5)
- Appetite: 2.8 (1.7) vs. 3.2 (1.7)
- Fatigue: 6.1 (2.0) vs. 5.4 (1.6)
- Physical complaints: 5.0 (2.0) vs. 3.5 (1.9)
- Irritability: 3.9 (1.4) vs. 4.1 (1.7)
- Guilt: 2.3 (1.4) vs. 3.1 (1.5)
- Self-esteem: 4.0 (1.3) vs. 3.9 (1.7)
- Depressed feelings: 3.6 (1.6) vs. 4.7 (1.9)
- Morbid ideation: 2.4 (1.4) vs. 3.3 (1.6)
- Suicidal ideation: 3.9 (2.5) vs. 4.2 (2.3)
- Weeping: 4.2 (2.3) vs. 3.7 (2.2)
- Depressed affect: 3.6 (1.6) vs. 3.5 (1.3)
- Speech: 1.5 (0.7) vs. 1.8 (1.3)
- Hypoactivity: 1.6 (0.9) vs. 2.2 (1.3)

Overall multivariate F for the consumption effect on CDRS-R subscales significant, F(4, 37) = 2.64, p < 0.05.
Overall multivariate F for the consumption effect on CDRS-R items nonsignificant.

Results

Subjects in the Moderate/Heavy alcohol consumption group were more depressed than those in the None/Minimal alcohol consumption group [CDRS—R: 62.4 ± 14.2 versus 53.8 ± 13.2, t (40) = 2.01, p = 0.051; HRSD: 21.3 ± 7.4 versus 17.0 ± 6.0, t (40) = 2.10, p = 0.042]. As indicated in Table 1, patients in the Moderate/Heavy consumption group had higher scores than the None/Minimal consumption group on the CDRS-R Behavioral subscale, which includes anhedonia, social withdrawal, and schoolwork. Consistent with this finding, the Moderate/Heavy consumption group had higher scores on five specific CDRS-R items: fatigue, depressive feelings, anhedonia, hypoactivity, and

References

Greenbaum PE, Prange ME, Friedman RM, Silver SE (1991): Substance abuse prevalence and comorbidity with other psy-
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