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CME Objectives

After completing this CME activity, the psychiatrist should be able to:

- Identify the behaviors that comprise paraphilia
- Determine the predominant clinical examples of paraphilia-related disorders
- Explore the significant relationship between attention-deficit/hyperactivity disorder (ADHD) in males and paraphilias
- Consider the effect that ADHD combined with dysthymic disorder may have on males during the formative developmental years

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Attention-Deficit/Hyperactivity Disorder in Males With Paraphilias and Paraphilia-Related Disorders: A Comorbidity Study

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Background: We describe a study of DSM-III-R Axis I diagnoses of lifetime comorbid nonsexual disorders in 60 males with paraphilias (PAs; N = 42) and nonparaphilic forms of sexual impulsivity—designated paraphilia-related disorders (PRD; N = 18).

Method: Subjects completed a semistructured intake questionnaire and sexual inventories, the Inventory to Diagnose Depression, and the Wender Utah Retrospective Scale for the diagnosis of childhood attention-deficit/hyperactivity disorder (ADHD). The lifetime prevalence of Axis I diagnoses of both sexual and nonsexual disorders was ascertained from the aforementioned data and follow-up psychiatric interviews.

Results: Subjects in both PA and PRD groups were diagnosed as having a lifetime prevalence of any mood disorder (71.7%), especially dysthymic disorder (66.7%); any anxiety disorder (43.3%), especially social phobia (28.3%); any psychoactive substance abuse disorders (45.0%), especially alcohol abuse (30.0%); and any impulse disorders NOS (25.0%), especially speeding/reckless driving (16.7%). The only diagnosis that statistically significantly distinguished the PA from the PRD sample ($p = .01$) was retrospectively diagnosed childhood ADHD, identified in 40.0% of the total sample (50.0% PA vs. 16.7% PRD). Childhood ADHD was associated with the presence of educational and behavioral problems, lower current mean income, social/legal consequences associated with antisocial impulsivity, cocaine abuse, increased prevalence of comorbid lifetime mood and impulse disorder NOS, and more diagnoses of lifetime Axis I nonsexual and sexual disorders.

Conclusion: Although depressive disorders were the most common Axis I diagnoses across groups, childhood ADHD was the only Axis I disorder statistically significantly associated with paraphilias, socially deviant and aggressive forms of sexual impulsivity.

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There is a paucity of empirical data delineating the Axis I comorbidity disorders that accompany sexual impulsivity disorders, paraphilias, and paraphilia-related disorders. Although behavioral characteristics and developmental variables have been described particularly in sex offenders with paraphilia, the psychological testing instruments commonly used to assess these characteristics do not specifically identify Axis I syndromes as operationally defined by the *Diagnostic and Statistical Manual of Mental Disorders, Third Edition, Revised* (DSM-III-R)¹ or the *Fourth Edition* (DSM-IV).²

In several reports, Kafka and Prentky^{3–7} have compared sexually impulsive males who have paraphilias as defined by DSM-III-R with males who have paraphilia-related disorders (repetitive, intensely arousing sexual behaviors that endure at least 6 months and are accompanied by significant distress or social impairment, but, in contrast to persons with paraphilias, are not currently considered socially deviant).^{8,9} In these studies, the predominant clinical examples of paraphilia-related disorders include compulsive masturbation, protracted promiscuity, dependence on pornography or phone sex, severe sexual desire incompatibility, and dependence on sexual accessories such as objects (e.g., dildoes) or drugs (e.g., nitrate inhalants).

Kafka and Prentky⁶ compared the common DSM-III-R Axis I comorbid mood, anxiety, psychoactive substance abuse, and impulse disorders NOS in 60 consecutively evaluated outpatient males (34 with paraphilias and 26 with paraphilia-related disorders) with sexual impulsivity. Although 15% of that sample reported no lifetime nonsexual Axis I comorbidity, both groups reported a significant lifetime prevalence of any mood disorder (76.6%), especially early-onset dysthymic disorder (53.3%); any

psychoactive substance abuse disorder (63.3%), especially alcohol abuse (40%); any anxiety disorder (46.7%), especially social phobia (31.6%); but a low prevalence of impulse disorders NOS (13.3%). Of particular note, no consistent diagnosis or diagnostic cluster existed that distinguished males with socially deviant paraphilic sexuality from males with the less socially stigmatized paraphilia-related disorders. It was suggested that the prevalence of dysthymic disorder, social phobia, and alcohol abuse validated—through the lens of DSM-III-R criterion-based diagnoses—the psychological testing instruments that characterized paraphilic sex offenders,^{10–13} paraphilic nonoffenders,^{14–17} and males with paraphilia-related disorders^{18–20} as depressed, anxious, socially avoidant or alienated, and abusive of alcohol.

In the only other study that systematically assessed Axis I comorbidity, Black et al.¹⁸ characterized 36 respondents (28 male, 8 female) to an advertisement for “compulsive sexual behavior” and reported lifetime prevalence of nonsexual comorbid Axis I disorders as determined by a computer-assisted version of the Diagnostic Interview Schedule (DIS).²¹ In that study, most of the subjects met diagnostic criteria for paraphilia-related disorders. Although 17% of their sample reported no other diagnosis of lifetime Axis I nonsexual disorders, 39% reported mood disorders, especially major depression or dysthymia (39%); any anxiety disorder (50%), especially phobic disorders (42%); any psychoactive substance abuse disorder (64%), especially alcohol abuse (58%); and any impulse disorder NOS (percentage not specified but described as “quite common”), especially compulsive buying (14%).

Inasmuch as the prevalence of mood, anxiety, substance abuse, and impulse disorders NOS comorbidity did not clearly distinguish subjects with paraphilias from those with paraphilia-related disorders in either of the aforementioned publications, an additional study of DSM-III-R Axis I disorders in a different sample of outpatient males with sexual impulsivity disorders is reported here. Although this study utilized a methodology similar to that used in Kafka and Prentky’s previous comorbidity study,⁶ the data reported here include the additional retrospective evaluation for the prevalence of childhood attention-deficit/hyperactivity disorder (ADHD) as defined in DSM-III-R. To our knowledge, no previous reports have described the prevalence of childhood ADHD in adult subjects with sexual impulsivity disorders, and only a single report has described ADHD in adolescent sex offenders.²² The assessment of persistent symptoms or “adult ADHD” was not ascertained in this sample.

It was hypothesized that ADHD and its associated sequelae would differentiate male paraphilic sex offenders from male nonoffenders who had either paraphilias or paraphilia-related disorders on the basis of reports that childhood-onset ADHD may antecede adult antisocial and aggressive behaviors,^{23–25} characteristics that delineate sex offenders from the latter 2 groups. In addition, some sex offenders report an educational history of repeated grades, learning disabilities, and school-related behavior problems,²⁶ educational consequences that are commonly associated with a history of ADHD.^{23,27}

METHOD

Study Populations

Data were collected prospectively from 60 consecutively evaluated outpatient males (aged 15–59 years) seeking treatment for principal diagnoses of paraphilias or paraphilia-related disorders. Informed consent was obtained from all study participants. Exclusion criteria included the presence of a concurrent neurologic condition, age greater than 60 years, a history of significant head injury with sustained loss of consciousness, current psychoactive substance abuse, and noncompliance with the psychiatric evaluation. The 60 males who completed the diagnostic evaluation were seeking treatment for paraphilias (N = 42), including nonoffender paraphilic (N = 12) and sex offender paraphilic (N = 30) subgroups, and 18 males with paraphilia-related disorders.

Study Materials

All subjects completed a semistructured intake questionnaire that collected demographic, medical, developmental, and psychiatric treatment data.⁶ The questionnaire contained an extensive checklist of symptoms designed to detect lifetime prevalence of DSM-III-R Axis I mood, anxiety, psychoactive substance abuse, impulse NOS, and attention deficit disorders (unpublished questionnaire, available from the authors on request). Consistent with DSM-III-R, to meet criteria for ADHD, subjects had to report childhood onset of at least 8 of 14 chronic symptoms of ADHD that were associated with social or educational impairment evident during grade school years.

The Inventory to Diagnose Depression (IDD),^{28–30} a self-report scale used to assess current symptoms of major depression, and the Wender Utah Rating Scale (WURS),^{31,32} used to assess retrospectively the symptoms of childhood-onset ADHD in adults, were both administered. A cumulative score on the 25-item WURS of 46 or higher correlated with the presence of childhood-onset ADHD. Ward et al.³¹

reported that a WURS score of 46 or higher correctly identified 86% of the subjects with attention deficit disorder, as distinguished from the 99% of the normal controls and the 81% of the depressed subjects who had a WURS score of less than 46. In their group of males with DSM-III-R-defined ADHD, the mean WURS score was 60.3 ± 14.2 , the mean unipolar depression group score was 34.2 ± 18.0 , and the mean normal group score was 17.9 ± 11.0 .

The lifetime prevalence of Axis I diagnoses was assigned by follow-up psychiatric interview(s) by the author (M.P.K.), a Board-Certified psychiatrist, utilizing the intake questionnaire as a database. Lifetime sexual diagnoses were assessed utilizing semistructured sexual inventories (unpublished inventories, available from the authors upon request),^{6,7} and confirmed by follow-up psychiatric interview(s). For the determination of Axis I diagnoses, the diagnostic hierarchy and exclusionary rules as described in DSM-III-R were maintained with the following exceptions: (1) primary versus secondary dysthymia were not differentiated; (2) no distinction was made between substance abuse and substance dependence; (3) based on the first author's clinical experience, additional repetitive impulsive behaviors, including speeding/reckless driving and repetitive theft (not distinguished from kleptomania), were scored as impulse disorders NOS. In particular, problems associated with reckless driving have been reported in adults with ADHD.^{33,34}

Population Definitions

All paraphilic diagnostic categories were assigned by using DSM-III-R criteria, and paraphilia-related disorders were classified according to the criteria of Kafka and Prentky^{4,8,9} (see the introduction). Males included in the group with paraphilia-related disorders (PRD group) reported the presence of at least 1 paraphilia-related disorder but no lifetime paraphilias. Males in the group with paraphilias (PA group) reported repetitive paraphilic behavior and could also have current or past paraphilia-related disorders. The sex offender PA group included all males who had repetitively engaged in paraphilic behavior that included an unwilling or unsuspecting victim. In this sample, these included subjects who had received diagnoses of exhibitionism, pedophilia, voyeurism, frotteurism, telephone scatologia, and rape. Although sexual sadism was diagnosed, none of the males from this subgroup reported nonconsensual victimizing behavior, so this diagnosis was included in the nonoffender PA group. Other diagnoses of nonoffender paraphilic behaviors included fetishism, transvestic fetishism, sexual masochism, and paraphilias NOS. Sex offenders could report

nonoffender paraphilias as well but would be included in the former PA subgroup for statistical analysis.

Statistical Analyses

Lifetime prevalence rates of DSM-III-R Axis I disorders are reported as percentages. Designated means are accompanied by standard deviations. The chi-square (χ^2) test of independence was used to compare prevalence rates between the categorical variables. Comparison of continuous variables was ascertained using an unpaired, 2-tailed Student t test and ANOVA for multiple group comparisons. Significant differences of means reported between multiple groups were examined using the post hoc Scheffé test, a conservative statistical test for the pairwise comparison of means. The Pearson correlation coefficient was utilized to compare the linear relationship between continuous variables. The alpha level was set at .05, thus a p value of $\leq .05$ was considered statistically significant. Inasmuch as multiple statistical comparisons were performed, it is possible that some reported findings of modest statistical significance are false positives.

RESULTS

The demographic and developmental characteristics of the groups are described in Table 1. Demographic variables such as age, marital status, and ethnicity were similar for all groups. Although a developmental history of physical or sexual abuse was more common to the PA (30.9%) than to the PRD group (5.5%) ($\chi^2 = 4.5$, $df = 1$, $p = .03$), there were no differences in abuse histories when the offender PA subjects were compared with the nonoffender PA subjects. In addition, the PRD group spent, on the average, 2 years longer in school than the PA group ($t = 2.4$, $df = 58$, $p = .01$). This difference was primarily attributable to the sex offender PA subjects, who spent, on the average, 2.5 years less in school than the PRD subjects ($F = 5.0$, $df = 2,57$; $p = .009$; Scheffé $F \leq 4.9$). Although school-related behavioral problems such as truancy were more prevalent in PA subjects (23.8%) in comparison with PRD subjects (0.0%) ($\chi^2 = 3.5$, $df = 1$, $p = .05$), there were no significant differences between the offender versus nonoffender PA subjects. Nearly one third of the PA subjects (30.9% vs. 16.6% of PRD subjects) repeated a grade ($\chi^2 = 1.3$, $df = 1$, $p = NS$), most commonly during early grade school, and 30.9% were suspended or expelled from primary or secondary school in comparison with PRD subjects (5.5%) ($\chi^2 = 4.5$, $df = 1$, $p = .03$). Differences in educational attainment and school-associated behavioral

Table 1. Demographic and Developmental Characteristics of 60 Males With Sexual Impulsivity Disorders

Variable	Paraphilia Group							
	Sex Offenders		Nonoffenders		Total		Paraphilia-Related Disorder Group	
	N	%	N	%	N	%	N	%
Sample size	30	100.0	12	100.0	42	100.0	18	100.0
Age, mean \pm SD	33.1 \pm 10.3		37.3 \pm 12.2		34.3 \pm 10.9		37.3 \pm 7.1	
Ethnicity								
White	28	93.3	12	100.0	40	95.2	18	100.0
Black	1	3.3	0	0.0	1	2.4	0	0.0
Other	1	3.3	0	0.0	1	2.4	0	0.0
Marital status								
Married	11	36.7	8	66.7	19	45.2	11	61.1
Single	15	50.0	4	33.3	19	45.2	6	33.3
Divorced	4	13.3	0	0.0	4	9.5	1	5.6
Any history of abuse	10	33.3	3	25.0	13	31.0	1	5.6
Physical	3	10.0	2	16.7	5	11.9	1	5.6
Sexual	6	20.0	1	8.3	7	16.7	0	0.0
Physical and sexual	1	3.3	0	0.0	1	2.4	0	0.0
No abuse history	20	66.7	9	75.0	29	69.0	17	94.4
Educational history								
Years completed, mean \pm SD	13.6 \pm 2.5		15.5 \pm 3.7		14.1 \pm 3.0		16.2 \pm 3.0	
Truancy	7	23.3	3	25.0	10	23.8	0	0.0
Repeated grade	10	33.3	3	25.0	13	31.0	3	16.7
Suspended/expelled	10	33.3	3	25.0	13	31.0	1	5.6
Income, \$1 (\times 1000), mean \pm SD	36.4 \pm 17.7		49.4 \pm 30.4		40.9 \pm 23.2		67.7 \pm 40.3	
Legal status								
Any legal history	22	73.3	4	33.3	26	61.9	3	16.7
Any arrests	21	70.0	3	25.0	24	57.1	3	16.7
Number of arrests	3.3 \pm 5.0		1.4 \pm 3.2		2.7 \pm 4.6		0.27 \pm 0.75	
Any incarcerations	7	23.3	0	0.0	7	16.7	2	11.1
Number of incarcerations	0.4 \pm 0.81		0 \pm 0		0.28 \pm 0.70		0.11 \pm 0.32	
Psychiatric hospital	11	36.7	1	8.3	12	28.6	1	5.6

problems may have been at least partially responsible for statistically significant differences in mean current gross income between the PA and PRD subjects ($t = 2.9$, $df = 46$, $p = .005$; (t tests excluded students [$N = 8$] and the unemployed/disabled [$N = 4$]). There were no income differences between offender versus nonoffender PA subjects.

Involvement with the criminal justice system, including summonses, arrests, and incarcerations for both sexual and nonsexual crimes, was more frequent among the PA subjects in comparison with PRD subjects ($\chi^2 = 10.3$, $df = 1$, $p = .001$) and more common to sex offender PA subjects in comparison with nonoffender PA subjects ($\chi^2 = 5.8$, $df = 1$, $p = .01$). Statistical differences identified between the PA group and PRD group included the prevalence rate of arrests (57.1% vs. 16.6%) ($\chi^2 = 8.34$, $df = 1$, $p = .003$) as well as the mean number of arrests ($t = 2.2$, $df = 58$, $p = .02$) but not the prevalence or number of incarcerations ($\chi^2 = .30$, $df = 1$, $p = \text{NS}$). The offender PA subjects were statistically significantly more likely to have been arrested in comparison with the nonoffender PA subjects (70.0% vs. 25.0%) ($\chi^2 = 7.0$,

$df = 1$, $p = .007$). Last, a history of psychiatric hospitalization was more common in the PA subjects ($\chi^2 = 3.9$, $df = 1$, $p = .04$).

The frequency distribution of sexual impulsivity disorders is presented in Table 2. The most common sexual impulsivity disorders in both the PA and PRD groups were the following paraphilia-related disorders: compulsive masturbation (44/60; 73.3% of the total sample), pornography dependence (29/60; 48.3%), and protracted promiscuity (22/60; 36.7%). Sex offender PA subjects most commonly reported exhibitionism (50.0%), pedophilia (36.6%), and voyeurism (36.6%), while nonoffender PA subjects were most commonly diagnosed with fetishism (75.0%), masochism (50.0%), and fetishistic transvestism (41.6%). Paraphilic males reported multiple lifetime paraphilic outlets (mean = 1.8 ± 1.2), and both PA and PRD groups self-reported multiple paraphilia-related disorders as well (mean = 1.8 ± 1.3 and $2.4 \pm .92$, respectively).

Nonsexual DSM-III-R Axis I comorbid diagnoses accompanying sexual impulsivity disorders are described in Table 3. Only 15% (9/60) of the males reported no other Axis I lifetime diagnosis. The mean lifetime Axis I diag-

Table 2. DSM-III-R Sexual Diagnoses in 60 Males With Sexual Impulsivity Disorders

Variable	Paraphilia Group							
	Sex Offenders		Nonoffenders		Total		Paraphilia-Related Disorder Group	
	N	%	N	%	N	%	N	%
Sample size	30	100.0	12	100.0	42	100.0	18	100.0
Paraphilic disorder								
Paraphilic disorders, mean \pm SD	2.0 \pm 1.3		1.3 \pm .65		1.8 \pm 1.2		0	0.0
Exhibitionism	15	50.0	0	0.0	15	35.7	0	0.0
Any pedophilia	11	36.7	0	0.0	11	26.2	0	0.0
Heterosexual	4	13.3	0	0.0	4	9.5	0	0.0
Homosexual	3	10.0	0	0.0	3	7.1	0	0.0
Bisexual	1	3.3	0	0.0	1	2.4	0	0.0
Incest, heterosexual	2	6.7	0	0.0	2	4.8	0	0.0
Incest, homosexual	1	3.3	0	0.0	1	2.4	0	0.0
Voyeurism	11	36.7	0	0.0	11	26.1	0	0.0
Fetishism	1	3.3	9	75.0	10	23.8	0	0.0
Masochism	3	10.0	6	50.0	9	21.4	0	0.0
Frotteurism	6	20.0	0	0.0	6	14.3	0	0.0
Telephone scatologia	6	20.0	0	0.0	6	14.3	0	0.0
Transvestism	1	3.3	5	41.7	6	14.3	0	0.0
Sadism	2	6.7	2	16.7	4	9.5	0	0.0
Paraphilia NOS	3	10.0	0	0.0	3	7.1	0	0.0
Rape	2	6.7	0	0.0	2	4.7	0	0.0
Paraphilia-related disorders	1.7 \pm 1.2		2.0 \pm 1.3		1.8 \pm 1.3		2.4 \pm 9.2	
Masturbation	22	73.3	9	75.0	31	73.8	13	72.2
Pornography	13	43.3	5	41.7	18	42.9	11	61.1
Any promiscuity	5	16.7	4	33.3	9	21.4	13	72.2
Heterosexual	3	10.0	3	25.0	6	14.3	8	44.4
Homosexual	1	3.3	0	0.0	1	2.4	2	11.1
Bisexual	1	3.3	1	8.3	2	4.8	3	16.7
Phone sex	5	16.7	3	25.0	8	19.0	6	33.3
Severe incompatibility	4	13.3	2	16.7	6	14.3	0	0.0
Accessories	3	10.0	2	16.7	5	11.9	1	5.6
Total sexual impulsivity disorders, mean \pm SD	3.6 \pm 2.2		3.4 \pm 1.7		3.5 \pm 2.0		2.4 \pm .92	

noses reported by the groups were as follows: PA offenders, 4.1 ± 3.1 ; PA nonoffenders, 3 ± 3.0 ; total PA group, 3.8 ± 3.1 ; PRD subjects, 2.5 ± 1.9 ; ($F = 2.0$, $df = 2,57$; $p = .13$).

The current mean depression score as determined by the IDD was not significantly different between the offender PA subjects, nonoffender PA subjects, and PRD subjects (mean = 19.6 ± 12.2 , 15.6 ± 10.3 , and 20.1 ± 12.0 , respectively) and corresponded to borderline-to-mild nonmajor depression.²⁸ On the basis of this finding, we concluded that the presence of current depressive symptoms did not differentially bias the anamnestic recollection of symptoms associated with other Axis I disorders in our sample. Moreover, the subjects ($N = 8$) who were taking antidepressants at baseline did not have a statistically significantly different baseline IDD score from other subjects who were taking no medication.

For the entire sample, the most frequent DSM-III-R Axis I diagnoses were mood disorders (43/60; 71.7% of the total sample), especially the dysthymic disorders (40/60; 66.7%) and major depression (28/60; 46.7%).

Fifty percent of the total sample reported dysthymic disorder, early onset subtype. There were no significant differences between PA and PRD groups in the lifetime prevalence of mood disorders.

Nearly 37% (22/60) of the total sample reported at least 1 lifetime anxiety disorder, social phobia being the most common (17/60; 28.3%). Obsessive-compulsive disorder was diagnosed in 11.6% (7/60) of the entire sample. There were no statistically significant differences between PA and PRD groups in the reported frequency of any anxiety disorder.

Psychoactive substance abuse disorders were reported by 45.0% (27/60) of the total sample, with alcohol abuse being the most frequent psychoactive substance abused (18/60; 30.0%), followed by marijuana (13/60; 21.7%). Cocaine abuse was statistically significantly more common in the PA group compared with the PRD group ($\chi^2 = 5.1$, $df = 1$, $p = .02$) but not between the offender and nonoffender PA groups.

Impulse disorders NOS were reported by 25.0% (15/60) of the total sample, and reckless driving/speeding was the

Table 3. Lifetime DSM-III-R Axis I Disorders in 60 Males With Sexual Impulsivity Disorders*

Variable	Paraphilia Group						Paraphilia-Related Disorder Group	
	Sex Offenders		Nonoffenders		Total		N	%
	N	%	N	%	N	%		
Sample size	30	100.0	12	100.0	42	100.0	18	100.0
No Axis I disorder	4	13.3	3	25.0	7	16.7	2	11.1
Any mood disorder	23	76.7	8	66.7	31	73.8	12	66.7
Major depression	16	53.3	4	33.3	20	47.6	8	44.4
Dysthymic disorder	21	70.0	8	66.7	29	69.0	11	61.1
Early onset	17	56.7	6	50.0	23	54.8	7	38.9
Late onset	4	13.3	2	16.7	6	14.3	4	22.2
Bipolar disorder	2	6.7	0	0.0	2	4.8	0	0.0
Any anxiety disorder	13	43.3	5	41.7	18	42.9	8	44.4
Panic disorder	4	13.3	1	8.3	5	11.9	1	5.6
Social phobia	9	30.0	4	33.3	13	31.0	4	22.2
Generalized anxiety disorder	1	3.3	2	16.7	3	7.1	3	16.7
Obsessive-compulsive	5	16.7	0	0.0	5	11.9	2	11.1
Any psychoactive substance	16	53.3	4	33.3	20	47.6	7	38.9
Alcohol	12	40.0	3	25.0	15	35.7	3	16.7
Marijuana	7	23.3	2	16.7	9	21.4	4	22.2
Cocaine	8	26.7	2	16.7	10	21.7	0	0.0
Prescribed	4	13.3	0	0.0	4	9.5	2	11.1
Hallucinogens	1	3.3	0	0.0	1	2.4	0	0.0
Opiates	1	3.3	0	0.0	1	2.4	0	0.0
Any impulsivity NOS	9	30.0	3	25.0	12	28.6	3	16.7
Theft/kleptomania	5	16.7	2	16.7	7	16.7	0	0.0
Pyromania	2	6.7	0	0.0	2	4.8	0	0.0
Reckless driving	5	16.7	2	16.7	7	16.7	3	16.7
Gambling	0	0.0	1	8.3	1	2.4	0	0.0
Intermittent explosive disorder	0	0.0	0	0.0	0	0.0	1	5.6
ADHD	16	53.3	5	41.7	21	50.0	3	16.7
Psychosis	2	6.7	0	0.0	2	4.8	0	0.0
Posttraumatic stress disorder	5	16.7	1	8.3	6	14.3	0	0.0

*Abbreviation: ADHD = attention-deficit/hyperactivity disorder.

most prevalent impulse disorder (16.7%). Of the combined PA sample, 15.2% reported theft/kleptomania compared with none of the PRD subjects. Overall, however, there were no significant differences between the PA and PRD groups in the frequency of any impulse disorder NOS.

DSM-III-R ADHD was retrospectively diagnosed in 40% of this sample of subjects with sexual impulsivity disorders and was significantly more prevalent in PA subjects (21/42; 50.0%) compared with PRD subjects (16.7%) ($\chi^2 = 5.8$, $df = 1$, $p = .01$). Although there was not a significant difference in the frequency of ADHD between offender and nonoffender PA groups, the sex offender PA group reported the higher prevalence of ADHD (53.3% vs. 41.7%). Males diagnosed with ADHD reported a mean WURS score of 56.6 ± 17.6 , while those without ADHD scored 29.8 ± 17.2 ($t = 5.8$, $df = 58$, $p = .0001$). Although the prevalence of ADHD did not differentiate between the sex offender PA subjects and the nonoffender PA subjects ($\chi^2 = .46$, $df = 1$, $p = NS$), when the sample was divided into sex offender PA, nonoffender PA, and PRD groups, the mean number of retrospectively self-

identified childhood symptoms of ADHD in the 3 groups were 6.2 ± 4.6 , 4.1 ± 5.0 , and 2.5 ± 2.7 , respectively ($F = 4.4$, $df = 2,57$; $p = .01$). Post hoc comparisons indicated that the sex offender PA subjects differed significantly from the PRD subjects (Scheffé $F = 4.3$, $p \leq .05$) in mean number of childhood ADHD symptoms. The mean WURS scores for the 3 groups were 47.8 ± 19.4 , 36.5 ± 23.1 , and 31.2 ± 21.0 , respectively, and these group differences reached statistical significance ($F = 3.8$, $df = 2,57$; $p = .02$). Post hoc analysis revealed that the offender PA subjects had significantly higher WURS scores than the PRD subjects (Scheffé $F = 3.6$; $p \leq .05$). The correlation coefficient between the total number of ADHD symptoms endorsed in the intake inventory (range, 0–14) and the WURS score (range, 8–83) for the entire sample was robust ($r = 0.76$; $p = .001$).

Although a DSM-III-R ADHD diagnosis was not associated with a history of physical/sexual abuse or repeated grades in school, ADHD was significantly associated with the presence of fewer years of education completed ($t = 2.8$, $df = 58$, $p = .006$), more truancy ($\chi^2 = 12.5$,

df = 1, $p = .0004$) and being suspended or expelled from school ($\chi^2 = 11.3$, df = 1, $p = .0008$). Childhood ADHD was also significantly associated with problems with the law ($\chi^2 = 11.3$, df = 1, $p = .0007$), including the mean number of arrests ($t = 3.7$, df = 58, $p = .0005$) and incarcerations ($t = 2.3$, df = 59, $p = .02$), for both sexual and nonsexual offenses. In addition, ADHD was significantly associated with more lifetime Axis I disorders diagnosed (mean = 5.3 ± 2.7 vs. 2.1 ± 2.1 ; $t = 5.1$, df = 58, $p = .0001$), lifetime comorbid major depression ($\chi^2 = 4.0$, df = 1, $p = .04$) and dysthymic disorder ($\chi^2 = 7.8$, df = 1, $p = .005$), a lifetime comorbid impulse disorder NOS ($\chi^2 = 5.9$, df = 1, $p = .01$), and a history of psychiatric hospitalization ($\chi^2 = 9.4$, df = 1, $p = .002$). It is noteworthy that 19 (79.2%) of 24 males with ADHD were diagnosed with dysthymic disorder and that only 5 subjects with ADHD (20.8%) reported no lifetime mood disorder. Last, ADHD was significantly associated with cocaine abuse ($\chi^2 = 8$, df = 1, $p = .004$) but not with alcohol abuse. ADHD was not significantly associated with the diagnosis of any anxiety disorder.

The diagnosis of ADHD was also associated with an increased number of lifetime PA subjects diagnosed (mean \pm SD = 2.2 ± 1.5 vs. $1.4 \pm .59$; $t = 2.2$, df = 40, $p = .02$) and the mean total number of lifetime sexual impulsivity disorders (4.0 ± 2.3 vs. 2.7 ± 1.2 ; $t = 2.7$, df = 58, $p = .007$). ADHD was not, however, associated with the total number of lifetime paraphilia-related disorders diagnosed.

DISCUSSION

In this sample of 60 males with sexual impulsivity disorders, the lifetime prevalence of mood disorders (72% of the total sample), especially the dysthymias (67%); anxiety disorders (43%), especially social phobia (28%); psychoactive substance abuse disorders (45%), especially alcohol abuse (30%); and impulsivity NOS disorders (25%), especially speeding/reckless driving (17%) (an impulse disorder not included in DSM-III-R), did not distinguish males with paraphilias from a nonparaphilic group of sexually impulsive males with paraphilia-related disorders. The lifetime prevalence of mood, anxiety, psychoactive substance abuse, and impulse disorder NOS reported here is similar to the distribution of comorbid diagnoses previously reported by Kafka and Prentky,⁶ who utilized similar methodology, but differs somewhat from that found by Black et al.,¹⁸ who reported a comparably higher lifetime prevalence of anxiety disorders and fewer mood disorder diagnoses in a group of "sexually compulsive"

males and females with paraphilia-related disorders and paraphilias. In this study, with the exception of ADHD, the only other Axis I diagnosis that significantly distinguished paraphilias from paraphilia-related disorders was cocaine abuse. This difference, however, may be related to the statistical association between cocaine abuse and ADHD in this sample ($p = .004$) and the higher frequency of ADHD in the PA group.

Childhood ADHD, retrospectively diagnosed both by self-report of childhood symptoms and a validated retrospective rating scale, distinguished the paraphilic group (ADHD diagnosed in 21/42; 50%) from the "nonparaphilic" group with paraphilia-related disorders (3/18; 17%). In addition, the clinical sequelae associated with childhood ADHD generally included the same demographic and developmental characteristics that distinguished the PA from the PRD group. For example, childhood ADHD was associated with primary school-associated behavior problems, fewer years of formal education completed, more problems with the law including arrests and incarceration, lower current earned income, more lifetime comorbid DSM-III-R Axis I sexual and nonsexual diagnoses, and a higher likelihood of psychiatric hospitalization. Contrary to our a priori hypothesis, however, the diagnosis of childhood ADHD did not distinguish paraphilic sex offenders from nonoffender PA subjects.

The developmental sequelae associated with ADHD in this report are consistent with those found in other empirical observations describing adult males with childhood-onset ADHD, including more problems associated with both childhood impulsivity and adult antisocial behavior, including arrests and incarceration; less formal education; and lower socioeconomic status based on current earnings.^{23,35} Although we did not assess the persistence of ADHD into adulthood in this sample of sexually impulsive males, it has been estimated that between 10% and 60% of childhood-onset cases of ADHD will persist into adulthood^{23,27,36-38} and "residual" ADHD in adulthood is also associated with a higher prevalence of comorbid psychoactive substance abuse and mood, anxiety, and antisocial disorders.^{35,39-45}

Inasmuch as the mood disorders, especially the dysthymias, were the most prevalent Axis I diagnoses in both PA and PRD subjects, and attention-deficit/hyperactivity disorder was particular to the PA group, a presumptive relationship between mood disorders, ADHD, and paraphilic sexuality may exist, meriting examination. For example, both ADHD and mood disorders may have childhood onset and be associated with disinhibited ag-

gression⁴⁶ and possibly with increased sexual appetitive behavior.^{6,7,47-49} Dysthymic disorder, early-onset subtype, reported by 50% of the combined sample, and ADHD during formative developmental years could then have a particularly malignant pathoplastic effect on developing male sexuality, conducing to dysregulated sexual appetite, thrill-seeking behavior, social deviancy, and impaired impulse control. In the only study of genetic factors associated with deviant sexual behaviors in Tourette's syndrome,⁴⁸ those probands with both Tourette's syndrome and ADHD had the most disinhibited forms of sexual expression. Analogously, it is possible that ADHD synergistically conduces to the more socially deviant forms of sexual expression (i.e., paraphilias) in those males with dysthymia and other mood disorders.

The conclusions of this report must be evaluated in the context of its design limitations. First, although the sample was large enough to permit statistical comparisons between 2 groups, PA (N = 42) and PRD (N = 18) subjects, the use of multiple statistical comparisons and the further division of the PA group into offender (N = 30) and nonoffender (N = 12) subgroups may limit the power of statistically significant differences identified. Second, although data from the inventories utilized in this study have been previously published, the validity and reliability of those instruments to assess diagnosis have not been rigorously tested. The demographic, developmental, and diagnostic data from this study were derived from the self-report of the study participants corroborated by subsequent diagnostic interviews by a Board-Certified psychiatrist (M.P.K.). Third, although the diagnosis of childhood-onset ADHD was retrospectively obtained with a study questionnaire that demonstrated a robust correlation ($r = 0.76$) with the score obtained from the WURS, a validated rating scale to retrospectively assess ADHD, the persistence of ADHD into adulthood was not determined. The validity of retrospective diagnosis of ADHD in this sample may have been compromised inasmuch as no significant others were included in rating childhood symptoms, a technique frequently utilized in studies of adults, adolescents, and children with ADHD.⁵⁰ Fourth, inasmuch as some of the diagnostic criteria for childhood ADHD and dysthymic disorder overlap (e.g., impaired concentration) and the chronic depressed mood reported by ADHD subjects could have been a sequelae of primary ADHD, the prevalence and specific subtype of mood disorder associated with ADHD requires further elucidation. Last, this study did not evaluate for the presence or exclusion of Axis II disorders (e.g., antisocial, borderline) or other Axis I diagnoses (e.g., conduct or op-

positional defiant disorder) and specific learning disabilities that may have contributed to a misdiagnosis of ADHD.

In response to some of the limitations of this study, a follow-up study of sexually impulsive males utilizing DSM-IV criteria for assessment of ADHD and conduct disorder and incorporating a rating scale for the assessment of current persistent symptoms associated with ADHD in adults is in progress.

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Instructions

Psychiatrists may receive 1 hour of Category 1 credit toward the American Medical Association Physician's Recognition Award by reading the article starting on page 388 and correctly answering at least 70% of the questions in the posttest that follows.

1. Read each question carefully and circle the correct corresponding answer on the Registration form.
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1. In this study, the sex offender paraphilia group included all males who had repetitively engaged in paraphilic behavior that included an unwilling or unsuspecting victim.
 - a. True
 - b. False
2. In this study, which of the following groups of behaviors is not an indicator for the sex offender paraphilia (PA) group?
 - a. Exhibitionism and voyeurism
 - b. Pedophilia and rape
 - c. Fetishism, transvestic fetishism, and sexual masochism
 - d. Pornography dependence and phone sex
 - e. Frotteurism and telephone scatologia
3. For this study, which of the following is *not* one of the predominant clinical examples of paraphilia-related disorders?
 - a. Paraphilias NOS
 - b. Protracted promiscuity
 - c. Dependence on sexual accessories
 - d. Dependence on pornography or phone sex
 - e. Severe sexual desire incompatibility
4. DSM-III-R attention-deficit/hyperactivity disorder (ADHD) was significantly more prevalent in the PA subjects compared with the paraphilia-related disorder (PRD) subjects.
 - a. True
 - b. False
5. In this study, ADHD was significantly associated with subjects having which of the following characteristics?
 - a. Suspensions and expulsions from school
 - b. More years of education completed
 - c. Arrests and incarcerations
 - d. Less truancy
 - e. Answers a and c only
6. In this study, with the exception of ADHD, the only other Axis I diagnosis that significantly distinguished paraphilias from paraphilia-related disorders was:
 - a. Alcohol abuse
 - b. Child abuse
 - c. Cocaine abuse
 - d. Anxiety disorders
 - e. All of the above
7. Based on the results of this study, inasmuch as mood disorders, especially the dysthymias, were the most prevalent Axis I diagnoses in both the PA and PRD subjects and attention-deficit/hyperactivity disorder was particular to the PA group, a presumptive relationship between mood disorders, ADHD, and paraphilic sexuality may exist.
 - a. True
 - b. False
8. Dysthymic disorder, early-onset subtype, and ADHD during the formative developmental years could have a particularly malignant pathoplastic effect on developing male sexuality, conducting to:
 - a. Dysregulated sexual appetite
 - b. Social deviancy
 - c. Impaired impulse control
 - d. Thrill-seeking behavior
 - e. All of the above

Answers to the January 1998 CME posttest

1. b 2. b 3. d 4. d 5. c 6. a 7. e

Circle the one correct answer for each question.

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B. Enabled me to determine the predominant clinical examples of paraphilia-related disorders (PRD).
C. Enabled me to explore the significant relationship between attention-deficit/hyperactivity disorder (ADHD) in males and paraphilias.
D. Enabled me to consider the effect that ADHD combined with dysthymic disorder may have on males during the formative developmental years.
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