ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADHD) IN ADULTS

Social-demographic profile from a university hospital ADHD outpatient unit in São Paulo, Brazil

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ABSTRACT - Purpose: To describe the social-demographic variables, including interpersonal, academic, and professional performance in adult individuals with the diagnoses of attention deficit hyperactivity disorder (ADHD). There are no reports of this kind in the Brazilian population with ADHD. The ADHD is a common disorder, which can reach up to 3% of the general population. Method: Descriptive study of adults with ADHD, according to the DSM-IV criteria (American Psychiatric Association). The sample was selected from a specialized outpatient service in São Paulo city. The social-demographic data was obtained by personal interviews. Results: There was a predominance of males in the sample (61.2%) and a high education level (90.2% had at least a high school degree) and 52% of the 102 patients had repeated their class at least once during their school lives. In addition, 22.5% of the population sample were unemployed at the time of the interview. Conclusion: The distribution of the socio-demographic variables in adult ADHD is similar to other ADHD samples reported in other countries, despite the high education level met in our sample. Similarities between child and adult ADHD could also be traced.

KEY WORDS: attention deficit hyperactivity disorder, adults, psychosocial impairment, outpatient service.

Transtorno de déficit de atenção e hiperatividade (TDAH) no adulto: perfil sócio-demográfico de pacientes com TDAH atendidos em ambulatório de um hospital universitário de São Paulo, Brasil

RESUMO - Objetivo: Descrever as variáveis sócio-demográficas incluindo desempenho acadêmico, profissional e interpessoal em uma população adulta com diagnóstico de transtorno de déficit de atenção e hiperatividade (TDAH). Até o momento não há relato na literatura do perfil desses pacientes na população brasileira. O TDAH é comum na população geral, podendo chegar a 3% das pessoas. Método: Foram avaliados adultos que tomaram conhecimento do serviço de atendimento especializado em TDAH através da mídia. O diagnóstico de TDAH foi realizado utilizando-se os critérios da Associação Psiquiátrica Americana (DSM-IV). Os dados sócio-demográficos foram obtidos através de entrevista pessoal com cada paciente. Resultados: 102 indivíduos preencheram critérios para TDAH. Houve predominio do sexo masculino (61,2%) com alto nível de escolaridade (90,2% tinham no mínimo 2º grau completo). Cinquenta e três pacientes (52%) foram reprovados pelo menos uma vez durante vida estudantil. No momento da entrevista, 22,5% encontravam-se desempregados. Conclusão: Observou-se uma semelhança na distribuição das variáveis sócio-demográficas com os indivíduos adultos com TDAH de outros países, apesar da escolaridade ser acima da média nacional. Além disso, pode-se também observar semelhanças entre as populações infantil e adulta com TDAH.

PALAVRAS-CHAVE: déficit de atenção e hiperatividade, adulto, prejuízo psicossocial, atendimento ambulatorial.

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Attention deficit hyperactivity disorder (ADHD) is one of the most common neuropsychiatric and behavioural disorders of childhood, and was first described in 1902 by the British physician George Still as a “defective moral control”. Still proposed that this condition was based on a biological substrate that could be either hereditary and/or the result of some acquired encephalopathy, instead of, as it was believed at that time, the consequence of bad behavior or moral degeneration. Since then, this condition received several names: minimal brain damage, minimal brain dysfunction, hyperactive child syndrome and attention deficit disorder with or without hyperactivity. These frequent changes reflect the uncertainty about the diagnose and etiology of this disorder. ADHD is characterized by a set of symptoms associated with the motor activity, impulsivity and attention, affecting 3% to 6% of children with onset before 7 years; the prevalence is 3-9 times higher in males. It was believed that ADHD would disappear at the beginning of adult life, however studies carried out by Reimherr et al., observed that the symptoms of some children with this disorder persisted into adulthood. ADHD came to be largely reconceptualized as a life-span disorder and not merely a condition of childhood. These researchers developed a clinical criteria for the diagnosis of adult ADHD (the Utah Criteria), which combined past history of ADHD with current evidence of present symptoms. Approximately 30% to 70% of these children maintain symptoms through adulthood serious enough to disrupt their daily lives. It is estimated that between 0.3% to 3% of the adult population are afflicted with ADHD and the prevalence in men is less dramatic, around 2:1. This difference in sex rate is probably because the disorder is less disruptive in women than in men in childhood, but in adulthood the impairments are similar.

Establishing the diagnosis in adults is particularly difficult, mainly of those that did not receive a diagnosis during childhood, since an overlap between the symptoms of adult ADHD and the symptoms of other frequent psychiatric conditions may occur. There are also difficulties in obtaining accurate information due to a bias in the recall of past informations. Reports from parents and other relatives are usually helpful. The symptoms of ADHD vary with age and development. The most important symptoms in adult patients are inattention, emotional lability, disorganized behavior, executive dysfunctions and disinhibition. It is observed that hyperactivity decreases with age and inattention tends to persist. In tedious situations or when poorly motivated, these patients complain about the difficulty in focusing attention and selecting relevant stimuli and consequently they are regarded as dreamy, distractible, oblivious and irresponsible. Lack of persistence results in activities being constantly neglected; generally causing poor occupational and academic performance, resulting in dismissal from job that can also occur due to the difficulty in controlling the impulses, often leading to interpersonal conflicts in all areas. Studies demonstrate that adults with ADHD have lower socioeconomic status, more difficulty at work and a greater number of job changes. Furthermore, many of these patients are attracted to high risky activities, such as speeding, and are interested in radical sports which may offer a higher accident risk for those that try to satisfy their immediate needs. In conclusion, adult patients with ADHD suffer a significant impact during their lives, due to the functional losses in a variety of segments as affective, familiar, social, occupational, academic. Increased awareness of adult ADHD was initially spurred by non-specialized publications. In Brazil, since 2000, the media has been reporting this psychiatric condition, and this is helping people recognize some of the symptoms and look for help and further diagnosis.

There are sociodemographic descriptions of adult ADHD in different countries but none so far in Brazil. The present report describes the socio-demographic profile of adult ADHD patients treated in a specialized outpatient clinic from the University Hospital in São Paulo.

**METHOD**

The patients were selected upon order of appearance from the outpatient service of the Attention Deficit Hyperactivity Disorder Project in Adults (PRODATH) at the Instituto de Psiquiatria do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo between 2002 and 2005. The initial recruitment started, firstly, through the media (newspapers and magazines).

The individuals between the ages of 18 and 60 had a full psychiatric evaluation and the selected patients fulfilled the diagnostic criteria from the fourth edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV) from the American Psychiatric Association for ADHD. The socio-demographic data was obtained by interviews based on Barkley’s workbook. Patients with other psychiatric disorders (e.g., organic psychoses and schizophrenia) were excluded. Those patients also participated in a molecular genetic investigation, approved by the local ethics committee. All patients received an explanation of the study, and a written informed consent was signed.
RESULTS

A total of 102 adults diagnosed with ADHD participated in the study. The inclusion of patients was performed according to the systematic criterion (all the patients from the outpatient service were invited to take part in it).

The patients were predominantly men (61.2%) with an average age of 33.2 (±9.21) years. They were predominantly unmarried (48%), followed by 39% of married patients, and 11% of divorcees (Table 1).

Concerning the total years of education, 90.2% had finished high school (11 years of education) and 41.2% had obtained university degree. No differences were observed between gender and total years of education ($\chi^2=2.89$, d.f.=4, p=0.57).

From the 92 informants, 48 (52.2%) had had to repeat their academic year at least once throughout their education. From this group of 48 patients, 20.6% (19/48) were women and 31.5% were men (no statistical differences).

At the moment of the first appointment or interview or contact, 56.9% (58/102) of them were employed, 22.5% (23/102) were unemployed (Table 2), 14.7% studying, 4.9% working at home and 1% retired. Among the individuals who were employed, there was complaint about difficulties in their professional life like frequent job loss and poor performance at work in spite of sometimes outstanding capabilities. This has a negative impact on them and they were considered distractible and unreliable. Forty-two patients out of 96 patients reported difficulties and distress, leading them to look for professional help (psychotherapeutic and/or psychiatric appointments). Eighteen of these 42 were previously diagnosed with ADHD by other psychiatrists.

DISCUSSION

The present work is a description of the socio-demographic profile of the adult ADHD patients attending a specialized outpatient service in São Paulo, Brazil.

We observed that a majority were males (ratio 1.6:1), but it was not as dramatic as described in a child ADHD population, confirming the suggestion that symptoms in adults are equally prevalent in men and women. However, according to Weiss and Murray, the lack of a difference between men and women may reflect a referral bias. In addition, Biederman observed that the male-female gender ratio for the ADHD in childhood is greater in clinical stud-
ies than in community studies. This suggests that female individuals with the ADHD may be referred less frequently to specialized services than male individuals, probably because ADHD is less disruptive in women than in men. However, the symptomatology is similar in both men and women during adulthood: they have poor self-discipline, short temper, difficulties in establishing and keeping a routine or plan, and difficulties in thinking clearly. But there are few studies reporting differences between men and women with adult ADHD, where women would have more severe psychosocial impairment. We can observe that the literature concerning the ADHD in adults is still limited and lacking consensus. A need of further investigation in this area is imperative.

The high educational level of the studied population, where 90.2% of the sample concluded high school, contrasts with the reality of the Brazilian population in which 39% finish high school according to IBOPE research. A possible explanation is selection bias, although the study was carried out in a public institution, most of the patients became aware through the media (newspapers, magazines, Internet). This is the main methodological limitation of this report, since it is not a population based study.

In spite of the high educational level of the patients from the studied group, one of the main complaints was the difficulty of learning and the poor academic performance that can be confirmed by the report during their academic life, with 48% of them having failed a school year at least once. Such a finding is consistent with the literature that shows high risk of failure at school and poor academic performance in children with ADHD.

In this study, 11% of the patients got divorced, below the percentage presented by Biederman et al. who found 28% of divorces compared to the controls (15%). However, the non-existence of a control group does not allow us to know the real difference with regards to divorce in our studied population. Also, the divorce status in a catholic country like Brazil may contribute to this difference.

The unemployment level was higher (22.5%) in our sample compared to the Brazilian population (12%) as observed in data from the Brazilian Institute of Geography and Statistics (IBGE), corroborating previous studies that describe a poor occupational performance with frequent changes of job.

Due to the age range between patients (20 to 56 years old), different levels of anguish and anxiety were observed, the youngest ones sought comple-

REFERENCE

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