

Opipramol for the treatment of somatoform disorders results from a placebo-controlled trial

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Abstract

Although somatoform disorders are highly prevalent, so far there is no established pharmacological treatment. Opipramol is a psychopharmacological widely prescribed in Germany. Early trials with opipramol showed the drug's effectiveness in anxiety states coupled with somatic complaints. Therefore, the efficacy of opipramol in somatoform disorders was evaluated using adequate clinical trial methods. A multicentre, randomized, 6-week, placebo-controlled clinical trial was performed in a total of 200 patients suffering from somatoform disorders according to ICD-10. In the main outcome criterion, the somatic subscore of the Hamilton Anxiety Scale, and in nearly all other outcome criteria opipramol (200 mg/day) was statistically more effective than placebo. A similar number of adverse events was noted in both groups. The results of this first-placebo-controlled study in somatoform disorders suggest efficacy of opipramol in this indication but need replication. © 2000 Published by Elsevier Science B.V. All rights reserved.

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1. Introduction

Briquet (1859) was the first to systematically describe the group of phenomena today referred to as somatoform disorders. He proposed the following typical syndrome clusters: hyperesthesia, anesthesia, impaired sensory perception, convulsions, fits, and hysterical paralysis. He also stated a typical feature of the disorder, i.e. that the symptoms begin in early childhood or youth and last for decades, or over the patient's entire life-span.

Decades later, the concept of hysteria was significantly influenced by Freud and Breuer (1893). However, except for the reevaluation of Briquet's work by Savill (1909) and Partell et al. (1951), there was no further systematic

development of this nosological concept. After the introduction of DSM-III (APA, 1980) these disorders were more clearly defined. In ICD-10 (WHO, 1992) and DSM-IV (APA, 1994), the operationalisations of the diagnostic criteria are very similar. In ICD-10 seven categories are separated: (1) somatization disorder (F45.0), (2) undifferentiated somatoform disorder (F45.1), (3) hypochondriacal disorder (F45.2), (4) somatoform autonomic dysfunctions (F45.3), (5) persistent somatoform pain disorders (F45.4), (6) others (F45.8), (7) not clearly defined somatoform disorders (F45.9). Regarding somatization disorder per se, one main difference between DSM-IV and ICD-10 lies in the time of onset. The definition in ICD-10 claims that the disorder can start at any age but must have existed for at least 2 years, with DSM-IV age of onset before the age of 30.

Thus, the concept is now relatively clearly defined. However, in spite of the defined concept and in spite of the high prevalence of the disease (4.4% in the USA according

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to the somatic symptom index; Escobar et al., 1987; Escobar and Canino, 1989), no established pharmacotherapy exists. This is due to the fact that to date no controlled clinical trials have been performed for somatoform disorders. After a systematic review of the literature, Volz et al. (1994) have identified nine trials. Only one of these investigations (Zitman et al., 1991) used DSM- or ICD-based inclusion criteria. However, the results of this investigation are of limited value since the cohort consisted of only 36 patients and no placebo group was included.

Although there is no well-evaluated pharmacological treatment for these disorders, there are quite a few early publications regarding the drug opipramol², which is widely prescribed in Germany. Two related areas have been investigated: (i) climacteric disturbances (evidence exists for four controlled trials including a total of ~470 patients (Wheatley, 1971; Foldes, 1972; GPCT, 1972; van Lith and Motké, 1983)) and (ii) anxious states or mixed states of anxiety and depressed mood with somatic complaints (a total of ~300 patients were included in six trials (Johnson, 1966; Barritt et al., 1969; Murphy et al., 1970; Gringras and Beaumont, 1971; Waxman and Beaumont, 1972; Jepson and Beaumont, 1973)). Two of these six trials were comparative, randomized investigations demonstrating superior effectiveness of opipramol vs. placebo (Johnson, 1966) and even vs. chlordiazepoxide (Jepson and Beaumont, 1973) in reducing somatic complaints. However, the inclusion criteria of the trials cited were not sufficiently operationalized.

Opipramol is a tricyclic compound with the nucleus of the anticonvulsant carbamazepine and the side chain of the neuroleptics fluphenazine and perphenazine without reuptake inhibiting properties for serotonin (5-HT) or noradrenaline. In vitro, it blocks the following receptors in decreasing order: histamine ($H_1 > H_2$), serotonin (5-HT₂), dopamine ($D_2 > D_1$), adrenergic (α_1), and very weakly cholinergic receptors (Bischoff et al., 1980, 1986, 1988; Bischoff, 1986; Bruinink and Bischoff, 1986). The blocking potential for H_1 , 5-HT₂ and D_2 receptors places opipramol between the classical antidepressants, atypical neuroleptics and anxiolytics (classical sedatives as well as serotonergic antagonists in the developmental state). Recent basic research also characterized opipramol as a strong sigma ligand (Musacchio et al., 1989; Ferris et al., 1990) with complex interactions on the dopaminergic system (Rao et al., 1990a) and the NMDA receptor complex. It also induces increased levels of cGMP and it possesses anti-ischemic effects (Rao et al., 1990b).

We decided to investigate the potential of opipramol compared to placebo in treating somatoform disorders both because of the clinical observations reported and the discovery of the drug's interesting receptor blocking

capacity. No active comparative drug could be included in this trial since, as stated above, there is no established pharmacological treatment for this disorder.

2. Subjects and methods

Patients aged from 18 to 76 years diagnosed as suffering from somatoform disorders according to the ICD-10 codes F45.0 (somatization disorder), F45.1 (undifferentiated somatoform disorder), or F45.3 (somatoform autonomic dysfunctions) without other significant Axis I diagnoses (e.g. panic disorder, major depressive disorder, substance abuse), relevant concomitant diseases (e.g. epilepsy, severe renal or hepatic impairment, cancer), pregnancy or breast feeding behaviour, were included. In contrast to time-criteria applied in ICD-10, the disorder had to be present for only 6 months, and not 2 years. The subscores of the Hamilton Anxiety Scale (HAMA) 'psychic anxiety' (HAMA-PSY) and 'somatic anxiety' (HAMA-SOM) were used to define patients suffering primarily from somatic symptoms: HAMA-SOM had to be at least 12, and at least 5 points higher than HAMA-PSY. Hamilton Depression Scale (HAMD) score should not exceed 24. These patients underwent a 7-day, single blind, washout period with four placebo capsules per day (one in the morning, at noon, and two in the evening, respectively). After this 7-day period, placebo responders (HAMA-SOM decrease of more than 4 points) had to be excluded. This period was followed by a 6-week, double blind treatment phase, in which the patients received either opipramol or placebo in identically prepared capsules. On day 0, opipramol was given once in the evening (50 mg in one of the two capsules), on day 1, two active capsules in the evening were administered (100 mg), on day 2, one active capsule at noon (50 mg) additionally, on day 3 the final dosage of four active capsules per day (one in the morning (50 mg), one at noon (50 mg) and two capsules in the evening (100 mg), always matching placebo in the placebo-group) was attained with a total daily dose of 200 mg of opipramol. Compliance was assessed by immediate pill-count at visits as well as by the results of opipramol plasma concentration measurements integrated into the data set when the whole monitoring procedures were terminated (see below).

According to German law, patients gave informed written consent. The study was approved by independent Ethical Review Boards, and performed according to GCP (Good Clinical Practice) principles.

2.1. Assessments

The following assessments were conducted throughout visits 1 to 6 on days -7, 0, 7, 14, 28, and 42, respectively: HAMA, HAMD, Symptom Check-List 90 Items-revised (SCL-90-R), Clinical Global Impression (CGI), documentation of additional drug-intake, blood pressure and heart

²Insidon® (Novartis).

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