Anxiety Disorders/Expert

Epidemiology

The study "Health of Adults in Germany" (DEGS1-MH, 2014) shows that 15.3 percent of German residents (between 18 and 79 years old) suffered from a clinically relevant anxiety disorder within a period of one year. This affects 21.3 percent of women and 9.3 percent of men. Women are therefore at least twice as likely to develop an anxiety disorder as men (see Figure 1). [1] [2]

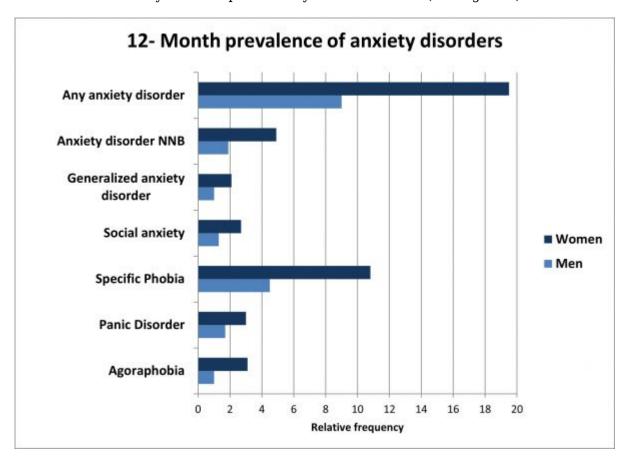


Figure 1: Prevalence of anxiety disorders in men and women diagnosed according to DSM-IV [Source: GenderMed-Wiki, according to Wittchen & Jacobi (2007). From: BGS 1998

Findings from a Dutch health report (1998) indicate a relatively small difference between 12-month and lifetime prevalence, thus illustrating the often chronic course of anxiety disorders. ^[3] The following table (Table 1) provides an overview of lifetime prevalence and sex distribution of different anxiety disorders. ^[4]

Table 1: Lifetime prevalence and sex ratio. [Source: Voderholzer & Hohagen (2013)]

Disorder	Panic disorder/Agoraphobia	Generalized anxiety disorder	Social phobia	Specific phobia
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Lifetime prevalence	6.1%	5.7%	12.1%	12.5%
Sex ratio (Women:Men)	2.2:1	2:1	1.4:1	2.3:1

Anxiety disorders generally arise in the second to fourth decade. However, 60 percent of all anxiety disorders first manifest before the age of 21 (subject to retrospective bias). The average onset of disease, which represents the earliest initial manifestation of the specific phobias, is 16 years (14.9 years for women, 19.4 years for men). Generalized anxiety disorder has the highest average age of onset with 35 years (33.6 years for women, 39.3 years for men). Sex differences in the initial manifestation of the respective anxiety disorders are shown in Figure 2. It is noteworthy that the prevalence rates for both sexes are the same over different age groups, resulting in a constant sex ratio (odds ratio between 2.5 and 2.8, see Table 2). Age therefore does not appear to have any influence on the development of an anxiety disorder, and the sex difference in prevalence remains constant across all age groups. [5]

Table 2: One-month prevalence of anxiety disorders in Germany. [Source: Wittchen et al. 1999]

Age	Women	Men	Ratio (w:m)
18-35	13.3%	5.5%	2.66
36-45	12.6%	4.9%	2.79
46-65	12.3%	5.3%	2.52
Total	12.7%	5.3%	2.64

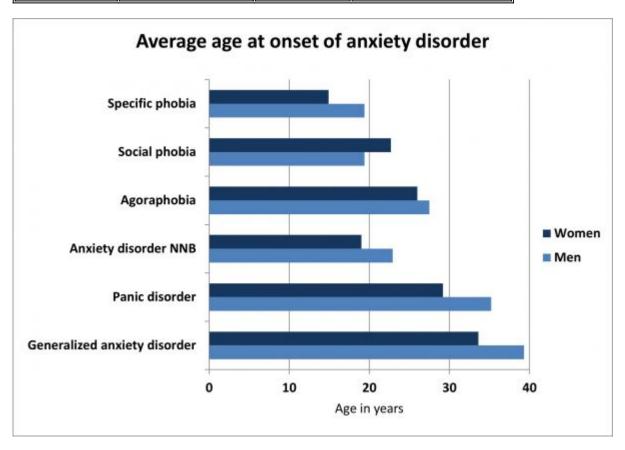


Figure 2: Average age of first manifestation of an anxiety disorder in men and women [Source: GenderMed-Wiki, after Wittchen & Jacobi (2007). from: BGS 1998].

Incidence/Prevalence

Risk and protective factors

Pathophysiology

Clinical presentation

Symptoms

Diagnostics

Patient management

Therapy

According to data from the German Health Survey of 1998, only about 38 percent of men and 46 percent of women with an anxiety disorder visit a medical or non-medical care facility (regardless of the duration, type or frequency of treatment). Despite the availability of effective treatment options, less than half of those with anxiety disorders seek professional help (44 percent in total). Figure 3 shows the use of healthcare facilities among women and men with anxiety disorders. [2]

There are also sex differences in the type of outpatient treatment, with women accepting all types of treatment more often than men (see Figure 4). The different use of therapy services depends on sex and gender and can be explained, among other things, by different patterns of seeking help: affected women are more likely to seek out medical support and undergo treatment more often than men. ^[6] In addition, women in the medical setting report emotional complaints much more frequently, which

in itself results in a higher number of diagnoses and treatments for anxiety disorders. Even if these emotional complaints have no disease potential, women make use of health care services (visits to the doctor) significantly more often than men (19 percent of women and 10 percent of men). In this context the greater health awareness in females and a tendency towards a lesser assessment of psychological influences on health in males most likely contributes to this as well. It is currently not possible to conclusively determine whether different levels of stress or impairment also determine those observed differences in seeking help. Generally speaking, the most common treatment for anxiety patients is psychotherapy. Exclusive pharmacological management was only recorded in 33 percent of men and 41 percent of women. [7]

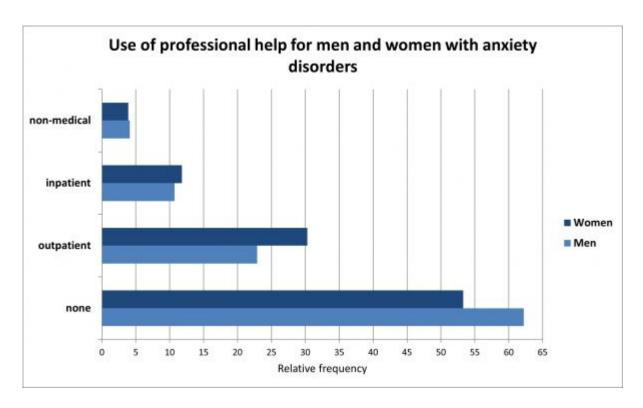


Figure 3: Use of professional help for men and women with anxiety disorders [Source: GenderMed-Wiki, after Wittchen & Jacobi (2007). from: BGS 1998].

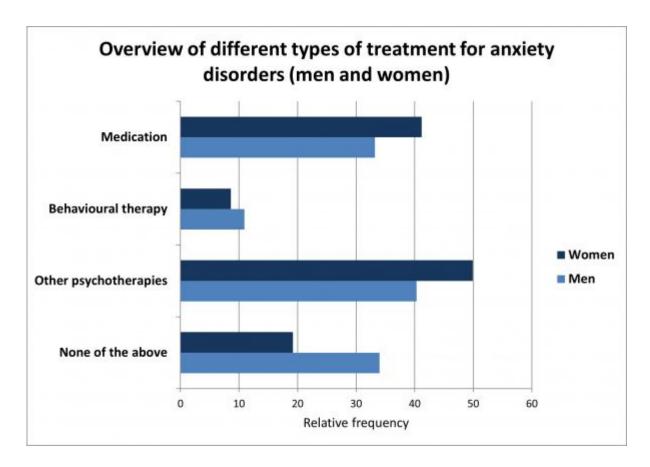


Figure 4: Overview of different types of treatment for anxiety disorders (men and women) [Source: GenderMed-Wiki, after Wittchen & Jacobi (2007). from: BGS 1998]

Physician-patient interaction

Treatment outcome

The following overview provides information on various treatment options and any sex differences in the effectiveness of a treatment. [7]

Table 2: Sex differences in the effectiveness of different treatment methods. [Source: Arolt & Rohde (2007)]

Disorder	I nerapy options	Efficacy in	Efficacy in
		women	men

Anxiety disorder and Agoraphobia	• Selective serotonin reuptake inhibitors, serotonergic tricyclic antidepressants, selective norepinephrine and serotonin reuptake inhibitors, certain benzodiazepines and anticonvulsants • Cognitive behavioural therapy, combination of psycho- and pharmacotherapy	II I	
Social phobia	Selective serotonin reuptake inhibitors, monoaminooxidase inhibitors, certain benzodiazepines and anticonvulsants Cognitive behavioural therapy, combination of psycho- and pharmacotherapy	functions and can thus influence the	Men may benefit from cognitive behavioural therapy.
Specific phobia	 Medication therapy only in very severe cases Exposure therapy, cognitive behavioural therapy 	Women may show better efficacy in exposure therapies.	Men may respond more positively to cognitive behavioural therapy.
Generalized Anxiety Disorder	• Selective serotonin reuptake inhibitors, selective norepinephrine and serotonin reuptake inhibitors, tricyclic antidepressants, benzodiazepines and azapirones • Cognitive behavioural therapy, combination of psycho- and pharmacotherapy		

Psychosocial factors

Women are more likely than men to judge their quality of life and functionality on the basis of psychological problems as well as partnership and occupational status. [8] Nevertheless, it is particularly in men that unemployment and lack of a partner are stronger vulnerability factors for the development of an anxiety disorder. [9] Women report anxiety as a result of adverse life events (especially experiences of loss or danger) more often than men. [7] The sex difference in the prevalence of anxiety disorders is particularly evident in urban compared to rural areas. [10] The prevalence of anxiety disorders is higher in urban communities compared to rural areas.

Prevention

Translation into patient care

Open research questions

Studies that investigate effective sex/gender-sensitive therapies and focus more closely on the female hormone status (cycle phases, contraception, substitution treatment, menopause, etc.) seem particularly necessary. The influence of the sex hormones on pharmacokinetics seems to be relevant for the effectiveness of drug therapies and thus also for the prognosis of disorders. In this context, further analyses of the pathogenesis and treatment of anxiety disorders during pregnancy or postpartum as well as during lactation are urgently recommended. [7]

Outlook

External Links

Literature

Click here to expand literature references.

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