Seeking professional help for nightmares: A representative study

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ABSTRACT – Background and Objectives: Nightmares are defined as disturbing mental experiences that generally occur during REM sleep and often result in awakening. Even though about 5% of the general population suffers from nightmares, little is known about seeking professional help in this patient group.

Methods: A quota sample of 2019 participants representative for the German population was studied.

Results: The findings indicate that every eighth person with frequent nightmares (cut-off: every other week or more often) sought at one time of his/her life for professional help for coping with nightmares. Socio-demographic variables did not correlate with help-seeking behavior.

Conclusions: Nightmares are an undertreated condition and future studies should aim at a more throughout understanding why nightmare sufferers rarely seek help for their condition.

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Introduction

Nightmares are defined as disturbing mental experiences that generally occur during REM sleep and often result in awakening (ICSD-2; AASM)1. In representative samples about 5% of the participants stated that they suffer from nightmares2-5. Even though frequent nightmares are associated with poor sleep quality6 and impaired day-time functioning7,8, the clinical impression is that most nightmare sufferers do not seek professional help for their problems9. Even in sleep clinics, nightmares were rarely diagnosed and treated: Krakow10 reported that 16.3% of sleep-disordered patients (N = 718) also have a salient nightmare condition that would normally not have been diagnosed if he hadn’t specifically asked for it. Similar, Schredl, Binder11 found that 13.4% of patients undergoing diagnostic
procedures in a sleep laboratory (N = 4,001) reported nightmares at least once a week; an explicit diagnosis of a nightmare disorder was given to 1.6% of the sample. These studies indicate that nightmares are underdiagnosed and very likely undertreated\textsuperscript{12-14}. However, up to now, there is no systematic research identifying the frequency of nightmare sufferers seeking professional help for their disorder – despite its consequences on sleep and day-time functioning.

The aim of the present study was to fill this gap and to investigate how often persons with nightmares in a representative sample seek professional help for coping with their nightmares. It was expected that nightmare frequency and indicators of nightmare severity would increase the probability of seeking professional help. The present data analyses are an extension of a previous report focusing on nightmare frequency and nightmare topics\textsuperscript{15}.

Method

Measurement instruments

For eliciting nightmare frequency, a seven-point frequency scale (coded from 0 = never, 1 = very rarely, 2 = several times a year, 3 = about once a month, 4 = about once in two weeks, 5 = about once a week, 6 = several times a week) was used in the study. The following nightmare definition was given: strongly negatively-toned dreams with fear or panic resulting in immediate awakening. Within this survey, the frequency of negatively-toned dreams without specific definition was also elicited using a similar scale. This scale was not included in the present analyses but used for selecting the subsample that suffers from bad dreams and/or nightmares. In addition, the participants were asked the following question: “My dreams have sometimes been so intense that I could not stop thinking about them the following day” (Yes/No). This could be conceptualized as an indicator for nightmare severity as more intense dreams with negative emotions have a stronger effect on the subsequent day\textsuperscript{16}.

To a subsample (persons who reported nightmares [see above definition] and/or negatively-toned dreams at least several times per year) the following two questions were presented: (1) “I often have worries prior to bedtime due to my frequent nightmares” (Yes/No) and (2) “I have sought professional help for coping with my nightmares” (Yes/No).

The following socio-demographic variables were included in the study: age, gender, education (five levels: “primary school” (9 years school), “primary school and completed apprenticeship” (9 years school plus apprenticeship), “Realschule” (10 years school), “Abitur” (13 years school). “Abitur with completed studies” (13 years school plus university degree)), social class (5 levels based on the total income of the household, the educational level, and the profession of the head of the household), size of town of residence (10 levels starting from (1) towns with less than 2000 inhabitants to (10) cities with more than 500,000 inhabitants), and marital status (married/living with partner, single/living without partner).

Participants and procedure

Overall, a representative sample (that included persons over 14 years of age) of 2019 persons (1135 women, 884 men) was drawn from German households. The study was carried out by GfK Marktforschung, Nürnberg, Germany and was financed by Wort & Bild Verlag, München, Germany. The quota sample was representative for the German popu-
lation. About 500 interviewers in different locations all over Germany (representative for the 16 German states and the variety of town sizes) received a list of four to five randomly generated combinations of the six stratification criteria: age group (14-19, 20-29, etc.) gender, number of persons in the household, federal state (of the 16 German federal states), town of residence size (less than 5,000, 5,000 to 19,999, 20,000 to 99,999, 100,000 or more), and occupation of the head of the household (blue-collar worker, employee, civil servant, self-employed/freelance, without occupation like a student, unemployed, and retired). The participants were selected by the interviewer with regard to the four or five combinations s/he received. The interviewers were trained by GfK Marktforschung. The nightmare questions were part of a multi-topic survey mainly focused on the evaluation of consumer products of different brands.

The mean age of the sample was 46.4 years (SD = 16.9). The subsample reporting nightmares and/or bad dreams at least several times a year consisted of 1022 persons (623 women, 399 men) with the mean age of 45.9 ± 17.2 yrs. The range varied from 14 years to 92 years. Participants were interviewed face-to-face at home. After being instructed by the interviewer, the section with the nightmare questions was filled out on a laptop without further interaction with the interviewer.

Due to problems of the interviewers not completing their recruiting aim (e.g., due to illness since the time interval for collecting the data was only two weeks), the resulting data set does not exactly match the representativeness of the lists sent to the interviewers. For an estimation of this effect, weights were computed, 90% were within the range of 0.40 to 1.87. Data analyses were carried out with the SAS 9.2 software package for Windows. To analyze the effects of socio-demographic variables, nightmare frequency, and the daytime effects of dreams on the “seeking help for nightmares“ variable (binary), a logistic regression procedure was used.

**Results**

Overall, 3.03% of the participants with at least some nightmares and/or bad dreams (N = 1022) reported that they sought professional help for coping with their nightmares. Percentages of the “Seeking professional help” item for each nightmare category are depicted in Table 1. Combining the first three categories, 15.19% of the persons with nightmares about every other week or more often stated that they sought professional help. The statistical analysis showed that none of the socio-demographic variables affected help-seeking and only nightmare frequency and the self-rated effects of dreams on subsequent waking life were significantly associated with the probability of seeking professional help (see Table 2). Specifically, if the person stated that dreams affected their waking life, the more likely the person sought help for his or her nightmares.

<table>
<thead>
<tr>
<th>Nightmare frequency</th>
<th>N</th>
<th>Seeking help</th>
</tr>
</thead>
<tbody>
<tr>
<td>Several times a week</td>
<td>12</td>
<td>25.00%</td>
</tr>
<tr>
<td>About once a week</td>
<td>37</td>
<td>10.81%</td>
</tr>
<tr>
<td>About every other week</td>
<td>46</td>
<td>17.39%</td>
</tr>
<tr>
<td>About once a month</td>
<td>87</td>
<td>4.60%</td>
</tr>
<tr>
<td>Several times a year</td>
<td>217</td>
<td>2.30%</td>
</tr>
<tr>
<td>Very rarely</td>
<td>444</td>
<td>1.35%</td>
</tr>
<tr>
<td>Never</td>
<td>179</td>
<td>0.56%</td>
</tr>
</tbody>
</table>
In the subsample of persons with nightmares and/or bad dreams (N = 1022) 38.65% of the participants stated that their dreams sometimes have been so intense that they could not stop thinking about them the following day. In addition, 4.40% of the subsample (N = 1022) reported worrying about nightmares before bedtime. Out of this subgroup (N = 45), 35.56% reported that they have sought professional help.

Table 2
Logistic regression of “Seeking professional help” item (N = 1022)

<table>
<thead>
<tr>
<th>Variable</th>
<th>Standardized estimate</th>
<th>Chi²</th>
<th>Prob.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>-0.0221</td>
<td>0.8</td>
<td>0.8399</td>
</tr>
<tr>
<td>Gender</td>
<td>-0.1081</td>
<td>1.0</td>
<td>0.3123</td>
</tr>
<tr>
<td>Social status (married vs. single)</td>
<td>0.0102</td>
<td>0.0</td>
<td>0.9296</td>
</tr>
<tr>
<td>Education</td>
<td>-0.0114</td>
<td>0.0</td>
<td>0.9300</td>
</tr>
<tr>
<td>Socio-economic status</td>
<td>-0.1471</td>
<td>1.1</td>
<td>0.2852</td>
</tr>
<tr>
<td>Size of town of residence</td>
<td>0.0163</td>
<td>0.0</td>
<td>0.8798</td>
</tr>
<tr>
<td>Nightmare frequency</td>
<td>0.4352</td>
<td>27.5</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td>Effect of dreams on following day</td>
<td>0.3119</td>
<td>7.1</td>
<td>0.0079</td>
</tr>
</tbody>
</table>

**Discussion**

This is the first study providing data about the percentage of persons with nightmares seeking professional help for this disorder. Prior to discussing the finding in detail it is necessary to take a look on the limitations of this study. The item measuring whether the person sought help for his/her nightmares did not include any time frame; this means that the person could have sought help recently or ten or twenty years ago but still have nightmares. One also has to keep in mind that nothing was elicited about whether the professional help had any beneficial effect on nightmare frequency. It might be speculated that the effect was minor because current nightmare frequency correlated with seeking professional help in the past.

Moreover, if the list given to the interviewers would have been completed without any missing combinations by every interviewer, the present data set would be representative. Due to missing data sets, this aim was not achieved. As most of the weights were within a reasonable range, the data set is still close to being representative (for a more detailed discussion regarding random sampling procedures [problem with availability and rejection] and quota-based samples, see Noelle-Neumann and Petersen17).

Since the study was carried out in Germany, the present findings might be limited to the German health system, implying that patients most often ask the general practitioner for help with this disorder – as for mental disorder in general18. Whether the patient is referred to a psychotherapist or a psychiatrist depends strongly on the knowledge of the general practitioner about nightmares and their etiology. In the present study, nothing was elicited about other mental disorders that might be associated with the nightmares like...
depression or posttraumatic-stress disorder. As the five most common nightmare topics found in this sample, Falling, Being chased, Being paralyzed, Being late, Close persons disappear/die\(^{15}\) were indicative for idiopathic nightmares\(^{19}\), it can be argued that the proportion of persons suffering from post-traumatic nightmares are quite small. It would be, however, of great value if future studies include measures of psychopathology and PTSD symptomatology.

In addition, the given nightmare definition does not completely rule out the possibility that some participants with night terrors gave false positive answers. As night terrors are rare in adulthood, this possible bias should be small. Nevertheless it would be interesting to measure night terror frequency and – in a way similar to the present study – whether the patient had sought help for his or her condition. As stated above, the presence of a psychiatric disorder like depression or an anxiety disorder was not elicited in this survey. This might be a confounder regarding the findings as patients with mental disorders suffer quite often from a co-morbid nightmare disorder\(^{20}\), even though one might argue that we asked specifically for seeking help for nightmares, and there is no reason why patients with mood or anxiety disorders should seek explicitly help for nightmares and not for their mental disorder. A recent study\(^{21}\) showed that imagery rehearsal is very effective in depressed patients with a co-morbid nightmare disorder.

About every eighth person with nightmares (cutoff: every other week or more often) sought at one time of his/her life for professional help for coping with nightmares; the contention that nightmares are undertreated\(^{9}\) is supported by this data, in particular as the percentage of successfully treated nightmare sufferers is presumably much smaller. As expected, nightmare frequency was the most important factor explaining help-seeking behavior. It is also very plausible that the effect of dreams on waking life play an additional role because the nightmares impair daytime functioning in these persons more strongly. This fits in with a previous finding that dreams incorporating negatively toned events of the previous day have a stronger effect on the mood of the next day\(^ {16}\). In order to measure the waking-life distress attributed to nightmares, it would be advisable to use a nightmare distress scale in future studies.

Interestingly, none of the socio-demographic variables had an effect on help-seeking if nightmare frequency was controlled. As nightmares are discussed as a potential risk factor for suicide\(^{22-24}\) and their negative effect on daytime functioning\(^{8}\), it would be desirable to study in more detail the reasons why nightmare sufferers do not seek professional help. One might speculate that adults who suffered from nightmares since childhood – a high percentage of adult nightmare sufferers state that nightmares started in childhood\(^{25}\) – perceive them as “normal” despite the burden of the disorder. Another speculation is that the general practitioner or even psychotherapists/psychiatrists are not aware of the effectiveness of simple cognitive interventions like the imagery rehearsal treatment\(^{26}\).

To summarize, the present study indicates that nightmares are an undertreated condition. Future studies should aim at a more thorough understanding of why nightmare sufferers rarely seek help for their condition. Internet-based self-help programs\(^{27}\), for example, might help increase the percentage of treated nightmare sufferers – within a concept of stepped care – since not every patient accepts individual psychotherapy.
References


21. Thünker J, Pietrowsky R. Effectiveness of a manualized imagery rehearsal therapy for patients suffering from nightmare disorders with and without a comorbidity of depression or PTSD. Behaviour Research and Therapy 2012; 50(9): 558-564.


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