Psychosomatic Aspects of Urinary Incontinence in Women

G. Debus¹, R. Kästner²

¹ Frauenklinik, Klinikum Dachau, Dachau
² Frauenklinik Maistraße, Universitätsklinik München, München

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Introduction

Urinary incontinence is an increasing health problem in our rapidly ageing society that is often not disclosed for a long time by the victims and is associated with appreciable costs. In the USA the annual costs generated by urgency urinary incontinence are estimated at almost $ 82.6 in 2015 with growing tendency [1]. The prevalence of urinary incontinence increases with increasing age. Thus, Buckley et al. [2] and Markland et al. [3] reported that 25 to 57% of all

Abstract

Urinary incontinence in women is a common problem. With increasing age its prevalence and severity of its manifestations increase. Among nursing home residents the frequency is between 43 and 77%, 6 to 10% of all admissions to nursing homes are due to urinary incontinence. The risk for urinary incontinence among women with cognitive deficits is 1.5- to 3.4-fold higher than for women without mental disorders. The most common form is stress incontinence (50%), followed by mixed stress-urge incontinence (40%) and purely urge incontinence (OAB = overactive bladder, 20%). With regard to its cause, the latter remains unclarified in about 80% of the cases. It is often difficult to treat. There are also cases in which urge incontinence is related to traumatic events. In such cases behavioural and psychotherapeutic options may be helpful. Almost inevitably every form of incontinence has psychological consequences: shame and insecurity are often results of uncontrolled loss of urine. Among others, in the long term, they lead to the avoidance of social contacts and possibly to depression and isolation. Consideration of the psychosomatics is important in the therapy for female urinary incontinence from three points of view: 1) the efficacy of treatment is better suited to the patient, 2) the treatment costs are lower, 3) the professional satisfaction of the responsible physician increases.

Zusammenfassung

female patients whom they had interviewed had involuntarily lost urine at least once in the previous year. The frequency according to age groups was described by Nygaard et al. [4] as follows:

- 20–39 years: 7%
- 40–59 years: 17%
- 60–79 years: 23%
- 80 years and more: 32%

The number of incontinent women in nursing homes is markedly higher, ranging from 43 to 77% [5]. Incontinence is the reason for 6–10% of all admissions to nursing homes. The risk for incontinence in women with dementia is 1.5- to 3.5-fold higher than that for women with unimpaired brain function [6]. In this context, the so-called Hakim triad should be mentioned; a clinical entity that is often missed but which in cases of normal pressure hydrocephalus from the 6th decade onwards is a cause of dementia, urinary incontinence and gait disorders, the relief of which represents a causal therapy [7].

During pregnancy, urinary incontinence is also a common phenomenon affecting between 30 and 60% of all pregnant women and which regresses in more than half of the women after delivery [8]. Evidence-based factors to avoid incontinence due to childbirth and pelvic floor injuries have been described in detail [9]. With advancing age, the incidence of incontinence also increases; urge incontinence which only plays a minor role in young women, increases more than stress incontinence, especially in the postmenopausal period. Although the following pathogenic processes predispose to incontinence, incontinence is not necessarily a component of the ageing process:

- myogenic increase of detrusor activity with detrusor instability
- loss of detrusor contractility with reduction of urine flow
- degeneration of bladder wall muscle cells and collagen deposits in the interstitial spaces [10]
- atrophy of the superficial and intermediary epithelium layers of the urethral mucous membranes (irritation, loss of compliance) [11]
- increased elimination of liquids during the night [12].

When the afflicted women finally pluck up the courage to consult a physician, gynaecologists and general practitioners are often the first points of call. The aim of the present review article is to help these physicians to initiate first effective measures in addition to a comprehensive case history with just a few orienting examinations.

In this article the relationship between the symptoms and the complex and complicated coupling of bladder function with brain function is presented, in addition, indications and options for the psychosomatic treatment of the patients are illustrated, especially when psychogenic causes for the incontinence are uncovered.

**Incontinence and Quality of Life**

Incontinence causes a major reduction in the quality of life for women of all age groups including even elderly and frail nursing home residents [13]. In a survey of 293 patients presenting for clarification of incontinence, Kelleher et al. [14] also found that patients with detrusor instability experience a greater impairment of their quality of life than do other incontinence patients. With a specific questionnaire, namely King’s questionnaire, a very good instrument has been developed for the evaluation of the mental impairments of women due to incontinence. The validated German version of the questionnaire [15] can be obtained free of charge via http://www.iciq.net/index.html.

With the help of this questionnaire, Hensel et al. [16] were able to demonstrate prospectively in 53 patients with combined stress incontinence and overactive bladders (OAB) that the placement of a suburethral tape resulted in a significant improvement in quality of life.

With ca. 40% of all incontinences in women urge incontinence is a frequent problem seen in gynaecological consultations. In about 80% of the cases an organic cause cannot be found so that treatment has to be purely symptomatic. Coyne et al. [17,18] have demonstrated that women with urge and mixed urge-stress incontinence have not only a significantly higher degree of incontinence but also a significantly poorer health-related quality of life than women with stress incontinence. In the NOBLE study (National Overactive Bladder Investigation) Steward et al. [19] determined the prevalence of mental stress caused by overactive bladder in the USA. The authors concluded that women are more strongly affected by urge incontinence than men, probably on account of their shorter urethras. Independent of gender, however, incontinent people have a markedly lower quality of life, higher depression scores and a poorer quality of sleep than continent persons.

**Psychosomatics of Incontinence**

In part on the basis of our own long urogynaecological experience, a psychosomatic component can be observed or deduced from the case histories in a relatively large proportion of women with urge incontinence.

Since the 1980s various authors have attempted to identify mental causes of incontinence on the basis of psychometric examinations. Norton et al. [20] could not find any clear psychosomatic differences between women with urge incontinence and those with other forms of incontinence. Berglund et al. [21] found higher values for physical and mental anxiety and mistrust among women with urge incontinence whereas investigations by Freeman et al. [22], Macaulay et al. [23] and Lamn et al. [24] revealed higher values for anxiety and depression in patients with urge incontinence. This was confirmed in investigations by Chiara et al. [25]. These authors also found that women with urge and mixed urge-stress incontinence experienced anxiety more frequently than women with pure stress incontinence and that this was reflected (according to the results of the employed questionnaire) in insecurity and a general fear of illnesses. These patients also tended to develop psychosomatic reactions in dependence on the severity of their symptoms.

**Developmental Neurological Principles for the Development of Bladder Dysfunctions**

Control of bladder function is learnt in the first years of life. Physiologically it comprises a very complex system that is very prone to disorders. Neurophysiologically, micturition behaviour is a hierarchically structured control loop with cognitively conscious motor components and affective unconscious components. Thus, in the widest sense, micturition is concerned with the release, emission, stopping of urine with retention and holding back functions [26].
There is in principle an intentional relationship between the human psyche and bladder dysfunctions (incontinence, pollakisu-
ria, dysuria, urge symptoms, voiding disorders): a somatic disease influences the mental state. It thereby encounters an individual mental condition that is significantly shaped by experience (so-
called life stress). This explains the fact that similar situations are experienced and handled (coping) differently by different people. Thus, it is necessary to take the individual mental situation into account upon development of bladder dysfunctions.

The bladder is a storage organ that is and must be emptied from the very first day of life onwards. In contrast to other mammals, humans learn in their first years of life to control urination until a suitable place and time is available, i.e., until it is socially accept-
able. In this period a child experiences on the one hand his/her power over the parents by voluntarily holding back excretions and on the other hand to be powerless against the external compul-
sion of “micturition on command”, possibly with punishment. Rewards for micturition in the right place are a form of being not-
iced in the learning of bladder and bowel control that will again play a role in later life when the care recipient with incontinence needs to hold back micturition until he/she reaches a toilet. Thus human excretions are of relevance from infancy to old age. Especially in the development stage of cleanliness education, there is a danger of psychopathological developments and psychosomatic impairments of bladder function [27].

From psychophysical points of view, the urogenital tract is an organ of desire, production and reproduction. This leads to an affect psychology of the pelvic floor consisting of three major affects: the aggressive affect of voiding (“wetting your pants”, also tensing up in annoyance, anger), in retentive affects (retention, waiting until a suitable place for voiding is at hand, also cramping, e.g., as a result of previous trauma) and in depressive affects (reduced muscle tone in descent conditions) [28].

### Forms of Incontinence with Psychosomatic Origins

The forms of incontinence with rather psychogenic origins in-
clude:

- the painful bladder,
- the overactive bladder and
- recurrent urinary tract infections (Table 1).

The symptoms represent a great burden for the patients, the therapy often creates major problems for the treating physician.

### Definitions

Bladder pain syndrome (BPS) is defined as chronic pelvic pain that is thought to be bladder-related. In addition there is either a persisting urge to urinate or an increased frequency of mictu-
rition [29–31]. Interstitial cystitis (IC) is a subform with detect-
able ulceration.

An overactive bladder is defined by the (bladder) storage symp-
toms pollakisuaria, imperative urge micturition and nocturia with or without incontinence, in the absence of local, metabolic, neu-
rological or endocrinological pathologies [32].

A good survey of the definitions, pathogenesis and psychoso-
matic relationships of the sometimes difficult to delineate and sometimes overlapping topics “chronic lower abdominal pain in women,” “somatisation disorders” and “somatoform disorders” can be found in the current guidelines of the DGPFG [33].

In urogyneacological practices, the bladder pain syndrome is mostly found in women who concomitantly report of sexual dif-
ficulties and suffer from chronic emotional tension. According to Diederichs [34] the mental correlate to this may be a latent sexual disorder, the somatic correlate of an anxiety disorder or, respect-
ively, the result of a narcissistic affront.

Bodden-Heidrich R, Beckmann MW, Libera B et al. [35] have ex-
amined the psychogenic causes of overactive bladder. On the ba-
is of an evaluation of psychosomatic tests they found that there was no causal relationship between incontinence and personal-
ity traits. On the other hand they considered it to be probable that the individual perception of incontinence had an influence on personality traits. The report published in 1978 by Frewen [36], after exclusion of an organic cause of overactive bladder, also described a psychogenic or emotional origin. Bladder training leads to a marked improvement of the symptoms after three months.

Chronic recurring cystitis can, according to Diederichs [37], be the expression of an unconscious “proximity-distance conflict”, a “dedication disorder”. It is postulated that this is related to ure-
thal-aggressive elements and not being able/not wanting to let go. In contrast to an often expressed opinion, neither relation-
ships between chronic recurrent urinary tract infections and sex-
ual disorders or between sexual intercourse and cystitis nor a partner-related dependence of the sexual experience capability could be demonstrated. Instead a changed sexual activity and limited experience capability are rather the secondary conse-
quences of chronic recurring cystitis.

The scientific discussion on this topic is also characterised by in-
homogeneous definitions and a lack of systematic and precise in-
vestigations. It is possible that this is also an expression of help-
lessness in light of the complex and in part tabooed topic. It ap-
pears significant that no mention of the psychogenesis of over-
active bladder is made in the current DGGG guidelines and that the guidelines were formulated without a corresponding scient-
ific contribution. Further research is absolutely necessary.

### Psychosomatically Oriented Procedure

A psychosomatically oriented approach to micturition disorders consists of the following steps:

- Anamnesis of symptoms, including drinking and eating habits
- Psychosocial anamnesis including partnership and sexual dis-
orders and indications of anxiety, depressiveness and somati-
sation and adaptation difficulties

### Table 1 Somato-/psychogenesis of voiding disorders.

<table>
<thead>
<tr>
<th>Form of urinary incontinence</th>
<th>Somatogenesis</th>
<th>Psychogenesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>stress incontinence,</td>
<td>mixed urge-stress incontinence,</td>
<td>sensory/idiopathic urin retention</td>
</tr>
<tr>
<td>tangible aetiology</td>
<td>motonic urge incontinence</td>
<td></td>
</tr>
<tr>
<td>Pollakisuria, dysuria,</td>
<td>chronic-recurring/</td>
<td>urethral syndrome,</td>
</tr>
<tr>
<td>urge symptoms</td>
<td>interstitial cystitis</td>
<td>irritative bladder (pain bladder)</td>
</tr>
<tr>
<td>Voiding disorders</td>
<td>morphological obstruction</td>
<td>masked functional disorder</td>
</tr>
<tr>
<td></td>
<td></td>
<td>psychogenenic urine retention</td>
</tr>
</tbody>
</table>
Questions about neurological symptoms of other organ system
General gynaecological anamnesis
Urogynaecological diagnostics
The differential diagnosis should include various mental illnesses
since symptoms such as pollakuria and bladder voiding disor-
ders can be part of a psychosocial complaint complex.
In daily routine, hints for a psychogenic causal component of
micturition dysfunctions and bladder incontinence are, accord-
ing to Bitzer [26], especially given when there is an obvious di-
crepancy between objective and subjective findings. Also the si-
multaneous occurrence of functional complaints such as obscure
pain, bowel problems, fibromyalgia, etc. and mental symptoms
such as anxiety and depressiveness as accompanying symptoms
allows the assumption of a relationship. Furthermore the with-
drawal of intimacy with the partner is an indication for a psycho-
 somatic component as is also the mention of specific triggering
situations. Moreover, somato- and psychogenesis frequently
overlap (Table 1). A multifactorial pathogenesis of micturition
dysfunctions must always be taken into consideration.

Urogynaecological Diagnostics
After the comprehensive case history, an urogynaecological ex-
amination is necessary.
Clinical pelvic floor findings (neurological examination, specu-
lum examination, assessment of vaginal environment, descent
situation on pressing, stress test on coughing),
vaginal and perineal ultrasound,
hormone status,
cystoscopy and
- if necessary urodynamics
are absolutely essential for the exact diagnosis of bladder dys-
functions.

Psychosomatic Differential Diagnostics
Various differential diagnostic considerations must be taken into
account before a specific procedure can be initiated:
- masked sexual disorder
- communication disorder
- unconscious affect transformed to body level
- symptom of a severe psychiatric illness such as post-traumatic
  stress disorder, anxiety disorder, affective disorder or psy-
  chotic disturbance [38].
- symptom of a severe psychiatric illness such as post-traumatic

In order to take a bio-psycho-social anamnesis it is often suffi-
cient to make use of the content and techniques of psychoso-
matic basic care.
In an open, face-to-face dialogue, questions should be asked
about particular experiences in childhood, school education, re-
lationship to parents and siblings, and moreover about school
and professional training and the further course of life. With an
attentive instinct, often not openly discussed conflicts, life events
and trauma may be uncovered that can later be followed up and
help to motivate the patient to participate in a deeper psycho-
therapeutic treatment [39]. Sometimes simple psychological
questionnaires about the emotional state are useful.

It must be remembered that psychosomatic associations arise be-
cause difficult or traumatic events in the past have had to remain
unprocessed and are thus not so easy to deal with now. The
symptom indeed arises from their suppression and is thereby a
suboptimal, neurotic solution. Whenever these burdensome ex-
periences emerge from their suppressed state, resistance against
their conscious awareness sets in. The therapist then needs pa-
tience and frustration tolerance.

Therapeutic Concept
Especially in cases of urge incontinence, the women often have
endured lengthy periods of suffering, at best interspersed with
sporadic improvements in the symptoms, but without being able
essentially to completely eliminate the vulnerability of the blad-
der function. Psychosomatic treatment under consideration of
mental components is also not possible without therapy for the
somatic findings, but it does integrate the psychosomatic treat-
ment with, e.g., accompanying dialogues. In cases with severe
mental comorbidity a primary psychotherapy should be initiated
[40].
The treatment consists of an individual therapy plan, accompan-
ing dialogues, relaxation exercises and pelvic floor physiotherapy
with, if necessary, nutritional advice and weight reduction as
well as psychotherapeutic interventions.

Aim of the Psychosomatically Oriented Treatment
Concept
The aim of treatment is an efficient improvement of the symp-
toms without permanent drug prescription, if at all possible with
cure of the underlying disease. It should be noted that a patient
will be open to a confrontation with her bladder dysfunction
when she feels that her personality is considered as a psycho-
physical entity.
The referral of a patient with bladder dysfunction to a specialist
for psychotherapy should be considered when constellations re-
quiring in depth clarification are present and, of course, always
when the patient herself realises that there could be a psycho-
genic cause and is motivated to effectively tackle her problem.
To this end, the gynaecologist can provide important motivation
help by the above-mentioned application of his/her psychoso-
matic basic competences.
The psychosomatically oriented treatment approach for female
urinary incontinence, especially of the mixed and purely urge
forms is in most cases more effective, the treatment costs under
economic points of view are lower and the patient’s satisfaction
as well as most probably that of the treating physician are higher.

Conflicts of Interest
None.
References


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