Evaluation of Preoperative Anxiety Level of Urological Surgery Patients and The Effects of Surgical Informing

- Mehmet Kutlu Demirkol,¹ ® Fatih Tarhan,² ® Özgür Yazıcı,³

¹Department of Urology, Kahramanmaraş Sütçü İmam University Faculty of Medicine, Kahramanmaraş, Turkey, ²Department of Urology, Kartal Dr. Lütfi Kırdar Training and Research Hospital, İstanbul, Turkey ³Department of Urology, Haseki Training and Research Hospital, İstanbul, Turkey ⁴Department of Urology, Konya Training and Research Hospital, Konya, Turkey ⁵Department of Urology, Delta Hospital, İstanbul, Turkey

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Correspondence: Mehmet Kutlu Demirkol, Kahramanmaraş Sütçü İmam Üniversitesi Tıp Fakültesi, Üroloji Anabilim Dalı, Kahramanmaraş, Turkey E-mail: kutludemirkol@hotmail.com



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ABSTRACT

Objective: To determine the causes of anxiety about surgery and to assess the impacts of informing about the surgical procedures on anxiety.

Methods: Between 18 and 65 years old, 497 patients who were scheduled for elective surgery in the Urology Clinic were included in this study. At the preoperative period, patients were asked to complete the following forms twice, before and after informing about surgery: State-Trait Anxiety Inventory (STAI), Visual Analogue Scale (VAS), European Quality of Life-5 Dimensions (EQ-5D) and the form containing causes of anxiety. Mean scores of STAI and VAS were classified as low, moderate, and high.

Results: The mean age of the patients was 56.54±0.58 and the mean STAI value was 39.16±0.42. Factors increasing the level of anxiety were female gender, unemployment and lack of surgical history (p<0.05). No statistically significant difference was found among STAI and VAS scores of the age, educational level, disease (benign - malign) and operation groups. The most frequent causes of anxiety were post-operative pain (38.3%), fear of organ loss (21.3%) and quality of life impairment (18.9%). However, the first reason for anxiety in the group with a high anxiety score was fear of death. After the patients had been informed, the STAI and VAS scores increased. The anxiety levels increased after informing especially the patients who were unemployed women, low educated and undergoing group A (major) operation (p<0.05). STAI was positively correlated with VAS but negatively correlated with EQ-5D (p<0.01).

Conclusion: It is observed that the patients who will undergo urological surgery have a moderate anxiety level and the most common cause is postoperative pain. Informing patients in the preoperative period increases the anxiety level. Hence, their quality of life is adversely affected. To understand the effects of informing on anxiety more clearly, new studies, including an uninformed control group, should be conducted.

INTRODUCTION

Surgical interventions have the potentials to cause serious psychiatric and psychosocial issues. They may lead to concerns that the patient will not be able to control his own body and life and fear of loss of organs or tissues, as well as hope and anticipation to get free of his/her disease. The level of this concern may vary depending on the nature of the underlying disease, in which an organ will be lost and the meaning and importance of the situation for the patient.

The patients undergoing surgical interventions may develop anxiety generally about anesthesia, concerns about the risk of death, worries about being disable, fear of pain, concerns on losing control on his/her own body, fear about loss of sexual function and ability to work. Studies have reported that approximately 60 to 80% of the patients in the preoperative period have anxiety. Level of anxiety has been found to be higher in women than in men, in the patients coming to the operation with his/her family or friends than the patients coming alone, in the

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patients undergoing cardiac or vertebral surgery, in young patients than in the elderly patients, and in the patients with poor past experience with anesthesia.^[2]

Some studies have indicated that the level of preoperative and postoperative anxiety is lower, and postoperative pain is less and recovery occurs faster in the patients informed in a detailed manner in the preoperative period. [3] According to a study, 82% of the patients undergoing surgery wanted to have more information about the surgical procedure, possible length of hospital stay. [4] In another study, it was observed that not to be informed about the diagnosis and the anesthesia do not affect situational anxiety, but a low level of information about the surgical procedure leads to a high level of situational anxiety. [5] The test most widely used in medicine to measure anxiety is the State-Trait Anxiety Inventory (STAI). [6,7] Visual Analogue Scale (VAS) is also used in measuring the level of anxiety. [8]

In this study, we aimed to determine the causes of anxiety about surgical treatment, the effects of anxiety on quality of life and to assess the impacts of informing about the surgical procedure on anxiety in patients undergoing elective urological surgery.

MATERIALS AND METHODS

Eight hundred patients scheduled for elective surgery in the Urology Clinic between December 2012 and May 2013 were evaluated for the present study. Patients included in this study graduated from at least a primary school and could speak and understand the language. The subjects with known psychiatric disorders and any medical condition precluding the evaluation were excluded from this study. A total of 497 patients between 18 and 65 years old were included in this study. Permission for this study was received from the ethics committee of Dr. Lütfi Kırdar Kartal Training and Research Hospital on 14.02.2012 (no. 5), and written informed consent was obtained from all of the subjects.

Demographical characteristics of the patients, including age, gender and educational level, were recorded as well as their diagnosis and the scheduled operation. To determine the most common three causes of the anxiety in patients, a 9-item questionnaire developed by us, STAI measuring the situational anxiety,^[6,7] VAS which is another scale used to measure anxiety,^[8] and European Quality of Life-5 Dimensions (EQ-5D) -the index of overall quality of life-^[9] were used. In this study, only the situational anxiety scale of the STAI was used to determine how a subject feels himself/herself at a certain time.

Five days before their operation, the subjects were asked to complete a sociodemographic data form, a form containing the causes of surgical anxiety, STAI, VAS and EQ-5D forms. Subsequently, the subjects were informed in a standard manner about their diagnosis and the scheduled operation. The patients were asked again to complete STAI, VAS and EQ-5D forms one day before preoperatively.

During the evaluation of the patients, the patients were divided into three groups based on their age as follows: 18-33 years, 34-49 years and 50-65 years. Mean scores of anxiety were classified as low, moderate, and high. For STAI, the low mean score was <33 points; the moderate mean score was 33-49 points and the high mean score was >49 points.[10] Corresponding values for VAS was <4 points, 4-6 points, and >6 points. The calculated index score of the EQ-5D scale ranges from -0.59 to 1. While a value of 0 indicates death and I full health, a negative value shows a state of unconsciousness and a bed-dependent condition. The operations were divided into groups determined by the Ministry of Health. Operations in the Group A were the specialty, those in the Group B were major, in the Group C were moderate, in the Group D were simple-moderate, and those in the Group E were simple operations. The co-morbidities of the patients were determined and graded by Charlson's Co-morbidity Index (CCI).[11] According to this score, 0 points were mild, I-2 points were medium, 3-4 points were heavy and 5 or more points were classified as very severe.

All data were expressed as mean±standard deviation. Statistical analyses were performed using paired t, student t, ANOVA, Pearson's correlation, and Chi-square tests by the GraphPad Prism 5.0 software (GraphPad Software, San Diego, CA). P-value <0.05 was considered as statistically significant.

RESULTS

Of 497 patients, 368 (74.1%) were male and 129 (25.9%) were female. Mean age of the subjects was 56.54±0.58 years. Most of the patients were male, above 50 years old and graduate of primary school (Table 1).

The mean STAI value was 39.16±0.42. Most of the subjects had benign diagnoses, underwent operations of group B and had history of previous surgeries (Table 2). CCI values of patients ranged from I to 6 and the mean was 0.89±0.06. CCI grade was mild in 304 (61.1%) patient,

Table 1. Socio-demographic characteristics of the patients					
		n	%		
Sex	Male	368	74.1		
	Female	129	25.9		
Age groups	<33 years	98	19.7		
	34-49 years	172	34.6		
	>50 years	227	45.7		
Marital status	Single	47	9.5		
	Married	439	88.3		
	Widow	- 11	2.2		
Educational level	Primary school	378	76. I		
	High school	82	16.5		
	College	37	7.4		
Employment status	Currently employed	201	40.4		
	Unemployed	296	59.6		

Table 2. Distribution of the patients by diagnosis, type of operation, and history of surgical operation

		n	%
Diagnosis	Benign	341	68.6
	Malignant	156	31.4
Type of operation	Group A	163	32.8
	Group B	284	57.1
	Group C	43	8.7
	Group D	5	1
	Group E	2	0.4
Previous operations	No	161	32.4
·	Yes	336	67.6

moderate in 144 (28.9%), severe in 36 (7.2%) and very severe in 13 (2.6%).

Results related to the causes of anxiety

It was seen that the first reason for anxiety before the operation in the patients was anticipation of postoperative pain (38.3%), the second reason was fear about the risk of body damage and loss of organ (21.3%) and the third reason was fear about loss of job or daily performance or fear about impaired quality of life (18.9%) (Table 3). It was observed that the first three reasons in the subjects with a low and moderate level of anxiety were the same as those in all patients (pain, loss of organ and loss of job). However, the first reason for anxiety in the group with a high anxiety score was fear of death, followed by pain and loss of an organ.

Anxiety scores were found to be higher in women, in the unemployed subjects and in women without a history of operation. No statistically significant difference was found among STAI and VAS anxiety scores of the age groups (p=0.077 and p=0.278, respectively). There was no statistically significant difference between STAI and VAS scores of the subjects based on their educational level (p=0.381)

and p=0.968, respectively). In the present study, no statistically significant difference was found between STAI and VAS scores of the operation groups (Groups A-C) (p=0.998 and p=0.219, respectively). There was no significant difference between STAI and VAS scores of the subjects with benign and malignant conditions (p=0.577 and p=0.605, respectively).

Results related to the anxiety scores

An increase was observed in the anxiety scores after the patients had been informed (p<0.05) (Table 4).

Informing about surgery increased the level of anxiety in the case of the female gender, lower educational level, unemployment, and operation of type A (Table 5). However, no statistically significant increase was observed after patients had been informed in the preoperative anxiety scores of the groups of the male gender, high educational level, active working people, undergoing major and moderate operations and all groups of age, marital status, diagnosis and operation history (p>0.05).

Quality of life

EQ-5D index scores of patients ranged from -.02 to 1.00. EQ-5D (Anxiety) is the depression/anxiety parameter of the five parameters of the EQ-5D scale. After informing patients, while the mean EQ-5D index scores decreased, the mean EQ-5D (Anxiety) scores increased, but both changes were not statistically significant, p=0.51 and p=0.34, respectively.

Table 4. STAI and VAS scores before and following giving information

	STAI	VAS		
Before information	39.16±0.42	3.10±2.30		
Following information	39.77±0.45	3.27±2.42		
P*	0.035	0.018		

*Paired t-test. STAI: State-Trait Anxiety Inventory; VAS: Visual Analogue Scale.

Table 3. Reasons for anxiety before the operation

Reasons for anxiety	Reason I		Reason 2		Reason 3	
	n	%	n	%	n	%
a- Insufficient knowledge of the surgeon	24	4.8	3	0.6	10	2
b- Loss of control during anesthesia	23	4.6	16	3.2	7	1.5
c- Fear of death	90	18.1	30	6. l	22	4.4
d- Postoperative pain	190	38.3	86	17. 4	36	7.2
e- Insufficient knowledge on the procedure	12	2.4	25	5.1	8	1.6
f- Fear of damage to the body, loss of organ	45	9.1	106	21.3	92	18.5
g- Loss of job, performance following operation	28	5.6	67	13.6	94	18.9
h- Fear of becoming dependent following operation	3	0.6	14	2.6	47	9.5
I- Success of surgery (cure, recurrence)	33	6.7	21	4.2	51	10.3
No anxiety	49	9.8	129	25.9	130	26.1
Total	497	100	497	100	497	100

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Table 5. Mea	in anxiety scores based	on female gender	lower educational level,	unemployment and	operation of type A
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	Female gender	Lower educational level	Unemployment	Operation of type A
STAI before	42.19±0.86	38.95±0.67	39.72±0.55	39.13±0.80
STAI after	44.64±0.93	39.98±0.51	40.74±0.59	40.08±0.87
Р	0.001	0.005	0.019	0.003
VAS before	3.87±0.22	3.09±0.12	3.30±0.14	3.35±0.19
VAS after	4.38±0.24	3.31±0.12	3.52±0.15	3.69±0.20
P	0.002	0.009	0.017	0.018

*Paired t-test. STAI: State-Trait Anxiety Inventory; VAS: Visual Analogue Scale; EQ-5D: European Quality of Life-5 Dimensions; CCI: Charlson's Co-morbidity Index.

tively. A positive relationship was found between STAI and VAS, EQ-5D (Anxiety) (p<0.01 for both). A strong negative relationship was found between STAI and EQ-5D (p<0.01). Based on these results, an increased level of anxiety of the subjects negatively affects their quality of life.

DISCUSSION

Surgical interventions have the potentials to cause serious psychiatric and psychosocial issues. The patients undergoing surgical interventions may develop anxiety generally about anesthesia, concerns about the risk of death, worries about being disabled, fear of pain, concerns about losing control on his/her own body, fear about loss of sexual function and ability to work. Studies have reported that about 60 to 80% of the patients in the preoperative period have anxiety. Level of anxiety has been found to be higher in women than in men, in the patients coming to the operation with his/her family or friends than the patients coming alone, in the patients undergoing cardiac or vertebral surgery, in young patients than in the elderly patients, and in the patients with poor past experience with anesthesia. [2]

Anxiety at a certain level is considered as a normal response to hospitalization and operation in the patients undergoing surgical procedures. Harmful effects begin to appear with an increasing level of anxiety. Anxiety about the anesthesia and surgery negatively affects the surgical procedure as well as postoperative healing. Domar et al. Domar et al. Domar et al. STAI scale, whereas Gönüllü et al. Peported the level of anxiety measured before giving information as 40,76. The mean STAI score was 39.16±0.42 in the present study.

In this study, the findings suggest that among the demographic characteristics, the gender had an influence on the level of anxiety and that women had much more anxiety than men. Many studies have reported that level of anxiety is higher in women than in men.^[13,14] Badner et al.^[1] attributed this difference to that anxiety was higher in women due to leaving the family, while some researchers attributed this to that women could much express their feelings and anxiety easier compared to men.^[13,15]

In this study, there was no significant difference between the age groups concerning anxiety level. Some researchers have reported that age did not affect the level of anxiety ^[1,13,16] while Ramsey^[17] found that level of anxiety was higher in the middle age group and attributed it to that responsibility of the subjects to their family in the mid-age group was more than other age groups.

The present study showed that employed subjects had a higher level of anxiety. We can explain this by that most unemployed subjects were female and that women had a higher level of anxiety.

It was found that the subjects without a history of operations had higher level of anxiety. Some studies have demonstrated the effects of history of operation on the level of anxiety. [18,19] Badner et al. [1] found that a lack of surgical experience was related to a higher level of anxiety.

In the present study, no significant relationship was found between educational level and anxiety. Some studies have reported that the level of anxiety increases with increasing level of education, whereas others have reported that educational level does not affect the level of anxiety.^[13,15]

No significant relationship was found between operation groups (A-C) and level of anxiety in this study. One study showed that the level of anxiety was higher in the patients scheduled for major surgical procedures than the patients scheduled for minor surgery and concluded that type of operation had effects on the preoperative emotional condition.^[20] It is usually accepted that the level of anxiety is higher in patients undergoing tumor surgery and surgeries, which have the risk of organ loss.^[21] However, no significant difference was found in anxiety scores between the groups with benign and malignant diseases in this present study. Norris and Baird reported that the level of anxiety was higher in patients of plastic surgery and gynecology.^[18] Some studies have reported that type of operation does not affect the level of anxiety.^[11,13]

It was seen in this study that the first three reasons for preoperative anxiety were postoperative pain (38.3%), fear of damage to the body, organ loss (21.3%) and postoperative loss of job, performance and impaired quality of life (18.9%). Furthermore, reasons for anxiety were found to be different between the subjects with a high and low level of anxiety. The most common reason for anxiety was postoperative pain in the group with low anxiety scores, while the most common reason was fear of death in the

group with a high anxiety score. Chew et al.^[22] reported the most common reasons for anxiety as pain (39.4%) and inability to awake after the operation (18.9%), while Hume et al.^[23] reported the most common reasons for anxiety as awakening during operation (51.8%), the inability to awake after the operation (43.4%), and pain (38%). In a study from our country, Ceyhan et al.^[24] reported these reasons as fear of death (30.6%), pain during operation (22.6%), whereas Sekerci et al.^[25] reported them as the inability to awake after the operation (51.9%) and any unexpected situation (22.1%).

It has been suggested that informing the patients preoperatively reduces anxiety significantly.[2] The effects of informing the patients in a very detailed manner on the anxiety are controversial.[19] In the present study, it was seen that informing the patients preoperatively increased anxiety level. However, the level of anxiety measured after information can be determined higher than the actual level since the second measurement was performed one day before the operation. Additionally, it is considered that a long interval between both points of measurement may affect the impact of giving information. To eliminate this, making a comparison by forming a control group would yield better results. Lack of a control group was a limitation for the present study. It has been shown in the literature that there is no significant difference between measurements of anxiety conducted at different time points. Arellano et al.[26] measured the anxiety level of their patients one week, one day and immediately before the operation and reported that there was no significant difference between the three groups. Study of Lichtor et al.[27] aiming to determine whether measurements of anxiety level performed at different two-time points reflected the real level of anxiety reported that correlation as high as 70% occurred between the anxiety levels measured in the afternoon of one day before the operation and immediately before the operation.

In this study, the effects of informing the patients were studied in the sub-groups, and the findings showed that informing the female patients increased the level of their anxiety. Kiyohara et al. [5] reported that surgical information had no effect on situational anxiety based on gender and that subjects informed about the surgical procedure had a lower level of anxiety. Additionally, it was also found that the level of anxiety increased in the unemployed subjects, those with lower educational level and those undergoing operations of Group A (major-special).

Increased level of anxiety of the patients negatively affects their quality of life. In the present study, a positive correlation was found between STAI and VAS scores. Many studies have reported that there is a correlation between STAI and VAS scores. [8,26,28]

The limitation of our study is the absence of the uninformed control group. Therefore, the actual impacts of informing on the level of anxiety were not well evaluated.

CONCLUSION

It was seen that the patients undergoing urological operations had a moderate level of anxiety and the most common cause of anxiety was postoperative pain. The female subjects, unemployed and those without a history of operation had a higher level of anxiety. There was a significant positive correlation between the anxiety scales and the scale of quality of life. In contrast to the literature, informing the patients preoperatively was observed to increase the level of anxiety. The impacts of informing on the level of anxiety will be better evaluated by new studies containing an uninformed control group.

Ethics Committee Approval

Approved by the local ethics committee.

Informed Consent

Retrospective study.

Peer-review

Internally peer-reviewed.

Authorship Contributions

Concept: M.K.D., F.T.; Design: F.T.; Supervision: F.T.; Materials: M.K.D.; Data: A.K., M.B.H., Ö.Y.; Analysis: F.T.; Literature search: M.K.D.; Writing: M.K.D.; Critical revision: M.K.D., F.T.

Conflict of Interest

None declared.

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Ürolojik Cerrahi Hastalarında Ameliyat Öncesi Endişe Düzeyinin Değerlendirilmesi ve Cerrahi Bilgilendirmenin Etkisi

Amaç: Cerrahi ile ilgili kaygı nedenlerini belirlemek ve cerrahi prosedür hakkında bilgilendirmenin endişe üzerine etkilerini değerlendirmek.

Gereç ve Yöntem: Üroloji kliniğinde elektif cerrahi planlanan 18–65 yaş arası 497 hasta çalışmaya alınmıştır. Ameliyat öncesi dönemde cerrahi hakkında bilgilendirme öncesi ve sonrası hastaların Durumluk-Süreklilik Kaygı Envanteri formu (STAI), Görsel Analog Skalası (VAS), Avrupa Yaşam Kalitesi 5-Boyut (EQ-5D) ve ameliyat hakkında endişe nedenlerini içeren formu doldurmaları istenmiştir. Ortalama STAI ve VAS skorları düşük, orta ve yüksek olarak sınıflandırılmıştır.

Bulgular: Hastaların yaş ortalaması 56.54±0.58, ortalama STAI değeri 39.16±0.42 idi. Kadın cinsiyet, aktif çalışmama durumu ve ameliyat öyküsü olmaması kaygı düzeyini artıran faktörlerdi (p<0.05). Yaş, eğitim düzeyi, hastalık (benin-malin) ve operasyon gruplarının STAI ve VAS anksiyete skorları arasında istatistiksel anlamlı bir fark bulunmadı. En sık görülen endişe nedenleri ameliyat sonrası ağrı (%38.3), organ kaybı (%21.3) ve yaşam kalitesi bozulma korkusudur (%18.9). Ancak, kaygı puanının yüksek olduğu grupta ilk anksiyete nedeni ölüm korkusuydu. Hastalar bilgilendirildikten sonra STAI ve VAS anksiyete skorları arttı. Özellikle kadınlar, çalışmayanlar, düşük eğitim düzeyine sahip ve grup A (majör) operasyon geçiren hastaların bilgilendirildikten sonra endişe düzeyleri artmıştı (p<0.05). STAI, VAS ile pozitif korelasyon gösterirken EQ-5D ile negatif korelasyon gösterdi (p<0.01).

Sonuç: Ürolojik cerrahi yapılacak hastaların orta derecede endişe düzeyine sahip olduğu ve en sık endişe nedeninin ameliyat sonrası ağrı olduğu görülmektedir. Çalışmamızda hastaların ameliyat öncesi dönemde bilgilendirmek kaygı düzeyini arttırmakta ve bu nedenle yaşam kaliteleri olumsuz yönde etkilenmektedir. Bununla birlikte, hasta bilgilendirilmesinin yapılmadığı kontrol grubu içeren yeni çalışmalar ile bilgilendirmenin endişe üzerindeki etkisi daha iyi anlaşılacaktır.

Anahtar Sözcükler: Bilgilendirme; cerrahi; Durumluluk Süreklilik Kaygı Envanteri; endişe; Görsel Analog Skalası; yaşam kalitesi.