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Patient Satisfaction with the Work of Nurses in Primary Health Care

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Abstract

Introduction. Patient satisfaction with provided health care is an important indicator of health care quality. Research on patient satisfaction has been very frequent in recent years.

Aim. A prospective, cross-sectional study was conducted at the Health Centre of the Ministry of the Interior of the Republic of Croatia between April and June 2019. The aim of this study was to examine the satisfaction of patients with the work of nurses in primary health care.

Methods. A standardized Nursing Practitioner Satisfaction Survey questionnaire, for which we received the author's approval, was used. The study involved 200 patients from the Health Centre of the Ministry of the Interior of the Republic of Croatia. Patients who came to the Health Centre's outpatient clinics requiring only the services of nurses were included in the study. Out of 200 patients surveyed, 185 questionnaires were filled out correctly, while 15 were filled out incorrectly.

Results. Patients from the Health Centre of the Ministry of the Interior of the Republic of Croatia are satisfied with the work of nurses in primary health care. There is no statistically significant difference in the satisfaction with the work of nurses in primary health care according to gender, education, marital or working status. There is a statistically significant difference in patient satisfaction with the work of nurses according to the respondents' age, where respondents in the age group between 26 and 40 years are less satisfied (Kruskal-Wallis test, Me=3.8). There is a statistically significant difference in the satisfaction of patients with the work of nurses in primary health care according to the respondents' annual income, where satisfaction is more pronounced among respondents with an annual income between 26.000 to 35.000 HRK and in the range between 36.000 to 45.000 HRK (Kruskal-Wallis test, p<0.01).

Conclusion. The patients who took part in the study are satisfied with the work of nurses in primary health care. There are significant differences in terms of age and annual income.

Introduction

Public health care in the Republic of Croatia is implemented on the basis of the principles of comprehensiveness, continuity, accessibility and a holistic approach in primary health care, as well as a specialized approach in specialist care and hospital health care (1).

It is the responsibility of the health care institution to monitor how well patients' rights are respected. Also, every health care institution is required to conduct regular surveys of patient experience and satisfaction (2). Patient satisfaction with provided health care is an important indicator of health care quality. Research on patient satisfaction has been very frequent in recent years. The problem is the interpretation of results, which can be complex and depends on the research instruments.

According to article 7 ("Patients' Rights and Experiences, Staff Satisfaction") of the Ordinance on Health Care Quality Standards and the Methods of their Implementation, adopted by the Ministry of Health and Social Welfare on 29 June 2011, a health care provider must ensure that every patient can exercise their rights when receiving health care services and must also implement all necessary measures to protect these rights in accordance with applicable regulations. This includes assessing how well the patients' rights are respected by regularly surveying their experiences and satisfaction once a year and analysing the results (2). For hospitals, the Ordinance on Accreditation Standards specifies the systematic planning and implementation of processes for the measurement, monitoring and analysis of specific areas, and one of the areas is patient experience and satisfaction (3).

Patient satisfaction is increasingly used as an indicator of quality in the health care system, although it is a patient's subjective experience. The involvement of patients in the improvement of health care is desirable, and according to the World Health Organization, socially, economically and technically important (4). Many studies have shown that patients rate nurses based on their kindness, friendliness, ability to solve an immediate problem, as well as their medical skills (5). Patient satisfaction is defined as the difference between a patient's expectations and their experiences as the user of nursing services. A nurse who wants to provide quality service and satisfy their patients must first understand their patients' needs and anticipate their expectations (5).

Monitoring health care satisfaction is common practice in many countries. There is no golden standard for the measurement of patient satisfaction. Initially, the EUROPEP instrument was developed to compare the general health care work in Europe as a whole that would provide educational feedback to family physicians and patients (6). Research is being conducted to improve health care, which includes:

- reducing waiting times for medical examinations
- data protection and confidentiality
- providing fast services in cases of emergency (6)
- improvements in service quality and care provided
- providing preventive care
- patient decision-making in the treatment and delivery of health care (7)
- health system reforms focused on strengthening primary care and streamlining hospital care (8).

Aim

The aim of this study is to examine the satisfaction of patients with the work of nurses in primary health care. The specific aims of the study are to determine whether there are differences in patient satisfaction with the work of nurses in primary health care according to the demographic characteristics of patients (age, gender, education, marital status), employment and annual income.

Methods

Participants

The study involved 200 patients from the Health Centre of the Ministry of the Interior of the Republic of Croatia. Out of the 200 surveyed patients, 185 guestionnaires were included in the analysis because 15 questionnaires were not filled in correctly. Of the total number of respondents, 126 (68.1%) were male and 59 were female (31.9%). Most respondents belonged to the age group between 41 and 60 (N=85; 45.9%). Patients of over 18 years of age who came to the Health Centre's outpatient clinics requiring only nursing services were included in the study. Patients were asked by the clinic nurse whether they would like to participate in the survey, after which they signed a consent form. A room was provided for them to fill in the questionnaire. The average questionnaire fill-in time was 5 minutes. The study was conducted at the Health Centre of the Ministry of the Interior of the Republic of Croatia between 1 April and 30 June 2019.

Instrument

As the research instrument, we used the standardized questionnaire "Nurse Practitioner Satisfaction Survey" (NPSS), which examines the satisfaction of patients with the service provided by nurses, for which we received the author's approval (14). The first part of the questionnaire included demographic information such as gender, age, education, marital status, employment and annual income, as well as patient health information such as the assessment of disease and injury for which medications were being taken and the number of prescription medications, number of annual visits to the nurse and type of health insurance. The second part of the questionnaire contained patient satisfaction rating scales. The scale consisted of 26 items; 18 items pertained to patient satisfaction, 4 items pertained to communication and 4 items pertained to availability. Every item was marked between 1 and 5 on the Likert scale, with 1 meaning complete disagreement and 5 meaning complete agreement.

Statistics

Category data is displayed in absolute and relative frequencies. Numerical data is described by median and interquartile ranges. The normality of the individual domain distributions and the overall scale was examined by the Kolmogorov-Smirnov test, and the results showed a statistically significant deviation from the normal distribution (p<0.01). Therefore, differences between the examined variables for the two independent groups were examined by the Mann-Whitney U test, and by the Kruskal-Wallis test between three and more independent groups. The SPSS for Windows 15.0 computer software package was used for statistical processing and analysis.

Results

Respondents' basic characteristics

The study was conducted on 185 respondents, among which 126 (68.1%) were male and 59 female (31.9%). Most respondents belonged to the age group of between 41 and 60 (N=85; 45.9%) and most had secondary education (N=137; 74.1%). Regarding their marital status, most respondents were married (N=107; 57.8%). A majority of respondents were employed full-time (N=136; 73.5%) and most had an annual income of above 60.000 HRK (N=113; 61.1%). Most respondents answered that they were not sick, 116 (62.7%) (Table 1).

Respondents' perception of their health status

Most of the respondents in the sample had no injuries at the time of the survey (N=156; 84.3%). The most common health issues for which respondents

Table 1. Res	oondents' basic characteristics	; (N=185)	
Respondents' ch	naracteristics	Number of respondents	% of respondents
Conder	Male	126	68.1
Gender	Female	59	31.9
	18-25	33	17.8
Age	26-40	47	25.4
(in years)	41-60	85	45.9
	Over 60	20	10.8
	Primary	3	1.6
	Secondary	137	74.1
Level of education	Tertiary (Bachelor)	18	9.7
	Tertiary (Master)	27	14.6
	Single	37	20.0
	Married	107	57.8
	Divorced	14	7.6
Marital status	Widowed	7	3.8
	Life partnership	8	4.3
	Other	12	6.5
	Unemployed	26	14.1
	Employed full-time	136	73.5
	Employed part-time	1	0.5
Employment status	Temporarily employed	5	2.7
	Retired	13	7.0
	Self-employed	3	1.6
	Other	1	0.5
	less than 15.000	37	20.0
	15.000-25.000	1	0.5
Annual income	26.000-35.000	10	5.4
(in HRK)	36,000-45,000	5	2.7
	46.000-55.000	19	10.3
	More than 60.000	113	61.1
	very sick	6	3.2
	moderately sick	24	13.0
How sick are they on this day	slightly sick	39	21.1
	not sick	116	62.7

were receiving medication are blood pressure-related issues (N=35; 18.9%), followed by issues related to other diseases (N=26; 14.1%), high cholesterol level (N=13; 7.0%), heart disease (N=10; 5.4%) and depression/anxiety (N=9; 4.9%). Most respond-

ents take two prescription drugs (N=166; 89.7%) and most are holders of health insurance (N=179; 96.8%). In the previous year, most respondents visited a nurse up to 5 times (N=152; 82.2%) (Table 2).

Table 2. Respondents' p	erception of their health sta	itus (N=185)	
Respondents' charact	teristics	Number of respondents	% of respondents
	very injured	2	1.1
How injured they are on this day	mildly injured	10	5.4
	slightly injured	17	9.2
	uninjured	156	84.3
	High blood pressure	35	18.9
	Diabetes	6	3.2
	Depression/anxiety	9	4.9
Health issues	Heart disease	10	5.4
for which the respondents were receiving	High cholesterol	13	7.0
medication	Asthma, trouble breathing	5	2.7
	Cancer	0	0.0
	Thyroid problems	5	2.7
	Other diseases	26	14.1
	0-2	166	89.7
Number of prescription drugs	3-5	13	7.1
prescription drugs	6-8	6	3.2
	1-5 times	152	82.2
Number of annual visits to the nurse in the	6-10 times	16	8.6
preceding year	11-15 times	9	4.9
	16 or more times	8	4.3
	Insured	179	96.8
Type of health insurance	No health insurance	4	2.2
	Foreign health insurance	2	1.1

Satisfaction with the work of nurses in primary health care

The satisfaction assessment scale for the assessment of patient satisfaction with nurses in primary health care includes three domains: patient satisfaction (18 items), communication (4 items) and accessibility (4 items). As shown in table 3 on the tested sample, the internal consistency coefficient for the patient satisfaction domain is Cronbach α =0.950, for the communication domain it is Cronbach α =0.932, and for the accessibility domain it is Cronbach α =0.9310. The obtained results show a high internal reliability of the instrument, both on the individual domains and on the whole scale (Cronbach α =0.966). Testing the normality of distributions across domains and on the overall scale was done using the

Kolmogorov-Smirnov test. According to the obtained results, the tested distributions deviate statistically significantly from the normal distribution, so it is justified to use non-parametric statistical procedures in further processing.

Patient satisfaction domain

Data presented in table 4 shows that the majority of respondents answered all statements by agreeing or fully agreeing with them. Since the statements have a positive orientation, this supports the conclusion that the respondents are generally satisfied with nurses' work and service.

Tabl	le 3. Internal reliabi	lity and testing the norma	lity of distribut	ions	
Domain	Number of items	Number of respondents	Cronbach α	K-S z	р
Patient satisfaction	18	185	0.950	1.676	0.001
Accessibility	4	185	0.810	2.327	0.001
Communication	4	185	0.932	3.036	0.001
Scale overall	26	185	0.966	1.689	0.007

Table 4. Agreement with state	ements	s in the	patient	satisfa	iction d	omain	
	N	umber (%) of re	sponden	ts		Median
Patient satisfaction	1	2	3	4	5	Total	(interquartile range)
I was satisfied with my visit to the nurse.	2 (1.1)	6 (3.2)	15 (8.1)	65 (35.1)	97 (52.4)	185 (100)	5 (4-5)
I will probably recommend this nurse to others.	4 (2.2)	8 (4.3)	20 (10.8)	61 (33.0)	92 (49.7)	185 (100)	4 (4-5)
In the future, I will probably schedule another appointment with the nurse.	5 (2.7)	8 (4.3)	22 (11.9)	55 (29.7)	95 (51.4)	185 (100)	5 (4-5)
The nurse did not rush when working with me.	9 (4.9)	17 (9.2)	22 (11.9)	69 (37.3)	68 (36.8)	185 (100)	4 (3-5)
l would prefer to see the nurse rather than the doctor.	13 (7.0)	31 (16.8)	46 (24.9)	45 (24.3)	50 (27.0)	185 (100)	4 (3-5)
The nurse is a skilled health practitioner.	2 (1.1)	11 (5.9)	22 (11.9)	61 (33.0)	89 (48.1)	185 (100)	4 (4-5)
The nurse discusses treatment methods other than drugs to solve my issue.	13 (7.0)	24 (13.0)	40 (21.6)	70 (37.8)	38 (20.5)	185 (100)	4 (3-4)
I am satisfied with the way the nurse treats me.	6 (3.2)	6 (3.2)	15 (8.1)	58 (31.4)	100 (54.1)	185 (100)	5 (4-5)
I was satisfied with the amount of time that the nurse spent with me.	3 (1.6)	7 (3.8)	18 (9.7)	68 (36.8)	89 (48.1)	185 (100)	4 (4-5)
The nurse is caring.	2 (1.1)	5 (2.7)	19 (10.3)	58 (31.4)	101 (54.6)	185 (100)	5 (4-5)
The nurse is knowledgeable about my health issues.		9 (4.9)	19 (10.3)	62 (33.5)	95 (51.4)	185 (100)	5 (4-5)
l trust the nurse.	3 (1.6)	5 (2.7)	12 (6.5)	60 (32.4)	105 (56.8)	185 (100)	5 (4-5)
The nurse knows when to consult the doctor.		3 (1.6)	15 (8.1)	67 (36.2)	100 (54.1)	185 (100)	5 (4-5)
The nurse listened to what I had to say.		6 (3.2)	23 (12.4)	61 (33.0)	95 (51.4)	185 (100)	5 (4-5)
The nurse is interested in my health issues.	3 (1.6)	7 (3.8)	28 (15.1)	64 (34.6)	83 (44.9)	185 (100)	4 (4-5)
The nurse respects me.	2 (1.1)	5 (2.7)	20 (10.8)	60 (32.4)	98 (53.0)	185 (100)	5 (4-5)
l understand what the nurse explained to me.		4 (2.2)	16 (8.6)	67 (36.2)	98 (53.0)	185 (100)	5 (4-5)
The nurse explained things to me in an understandable way.	2 (1.1)	5 (2.7)	19 (10.3)	61 (33.0)	98 (53.0)	185 (100)	5 (4-5)
Key: 1 = I fully disagree, 2 = I do not agree 3 = I am not sure, 4 = I agree, 5	5 = I fully ag	gree					

10

Accessibility domain

The data presented in table 5 shows that most respondents positively assess the accessibility and availability of the nurse, and the most common answers are agreement and full agreement with the content of the statement. However, it should be noted that a larger number of respondents expressed hesitancy ("not sure") in agreeing with the statements concerning the possibility of arranging a suitable appointment with the nurse (N=38; 20.5%) and that arranging an appointment with the nurse is easier than with a doctor (N=43; 23.2%).

The Communication domain

According to the data in table 6, the respondents are positively oriented and mostly satisfied with the manner and possibility of communicating with the nurse, and they answered mostly with "I fully agree" and "I agree".

Differences in the individual domains and the overall scale according to respondent characteristics

Differences in patient satisfaction with regard to the respondents' age

The Kruskal-Wallis test was used to examine the existence of differences between the domains of patient satisfaction with the work of nurses in primary health care and the overall scale with respect to the patients' age. According to the results shown in table 7, patients are satisfied with nurses' work (the median of the overall scale according to the age groups is in the interval between 4.2 and 4.5). A statistically significant difference between age groups was observed only for the accessibility domain (p<0.05), with slightly less satisfied respondents in the age group of patients of between 26 and 40 years of age (median 3.8 and interquartile range 3.0 to 4.5) relative to other groups.

97

185

(100)

5 (4-5)

Table 5. Agreement with	Table 5. Agreement with statements in the accessibility domain								
	N	umber (%) of res	ponden	ts		Median		
Accessibility	1	2	3	4	5	Total	(interquartile range)		
I was able to arrange an appropriate appointment with the nurse.	10 (5.4)	15 (8.1)	38 (20.5)	64 (34.6)	58 (31.4)	185 (100)	4 (3-5)		
When I need health care, I can easily arrange an appointment with the nurse.	12 (6.5)	18 (9.7)	22 (11.9)	57 (30.8)	76 (41.1)	185 (100)	4 (3-5)		
The Health Centre of the Ministry of the Interior is accessible.	3 (1.6)	14 (7.6)	18 (9.7)	64 (34.6)	86 (46.5)	185 (100)	4 (4-5)		
It is easier to arrange an appointment with the nurse than with the doctor.	7 (3.8)	16 (8.6)	43 (23.2)	60 (32.4)	59 (31.9)	185 (100)	4 (3-5)		
Key: 1=I fully disagree, 2=I do not agree, 3=I am not sure, 4=I agree, 5=I	fully agree								
Table 6. Agreement with st	tateme	nts in t	he com	munica	tion do	nain			
	N	umber (%) of res	ponden	ts		Median		
Communication	1	2	3	4	5	Total	(interquartile range)		
It is easy for me to talk to the nurse about my health issues.	1 (0.5)	5 (2.7)	22 (11.9)	64 (34.6)	93 (50.3)	185 (100)	5 (4-5)		
I understood everything the nurse taught me.	1 (0.5)	5 (2.7)	25 (13.5)	66 (35.7)	88 (47.6)	185 (100)	4 (4-5)		
I felt comfortable asking the nurse questions.	1 (0.5)	5 (2.7)	23 (12.4)	60 (32.4)	96 (51.9)	185 (100)	5 (4-5)		

6

(3.2)

20

61

(10.8) (33.0) (52.4)

1

(0.5)

Key: 1=I fully disagree, 2=I do not agree, 3=I am not sure, 4=I agree, 5=I fully agree

I left the nurse's office with all of the answers

that I needed.

Table 7. The medians o patie			he overall scale, as we n regard to the patient			differe	ences in
Domain	Age (in years)	Ν	Median (interquartile range)	M _{rank}	χ^2	df	p
	18-25	33	4.3 (3.6-4.8)	88.29			
Patient satisfaction	26-40	47	4.2 (3.4-4.7)	77.98	6.551	3	0.088
Fallent Salisiaction	41-60	85	4.4 (3.9-4.8)	100.33	0.551	J	0.000
	> 60	20	4.5 (3.9-4.8)	104.93			
	18-25	33	4.0 (3.3-4.8)	93.82			
Accoscibility	26-40	47	3.8 (3.0-4.5)	74.59	9.606	3	0.022*
Accessibility	41-60	85	4.0 (3.6-4.6)	97.82	9.000	3	0.022
	> 60	20	4.1 (4.0-5.0)	114.43			
	18-25	33	4.3 (3.8-5.0)	89.38			
Communication	26-40	47	4.0 (3.8-5.0)	82.33	2 0 0 0	3	0.264
Communication	41-60	85	4.5 (4.0-5.0)	97.40	3.980	J	0.204
	> 60	20	4.8 (4.0-5.0)	105.35			
	18-25	33	4.2 (3.7-4.8)	89.61			
Coole everall	26-40	47	4.1 (3.3-4.7)	77.86	C 477	З	0.007
Scale overall	41-60	85	4.4 (3.9-4.8)	99.50	6.427	З	0.093
	> 60	20	4.5 (3.9-4.7)	106.55			
* <i>p</i> <0.05							

Differences in patient satisfaction with regard to the respondents' gender

The Mann-Whitney test was used to examine the existence of differences between the domains of patient satisfaction with the work of nurses in primary health care and the overall scale with respect to the patients' gender. According to the results shown in table 8, patients are satisfied with nurses' work (the median of the overall scale for both groups is 4.3). No statistically significant differences were found between the examined groups by gender in the individual domains and the overall scale (p>0.05).

Differences in patient satisfaction with regard to the respondents' level of education

According to the results of the Kruskal-Wallis test shown in table 9, no significant differences were found in the examined domains or on the overall scale with regard to the respondents' level of education (p>0.05). The respondents are satisfied with the nurses' work. Given the values obtained, there is no

statistically significant difference in the satisfaction of patients with the nurses' work with regard to the respondents' level of education.

Differences in patient satisfaction with regard to the respondents' marital status

According to the results of the Kruskal-Wallis test shown in table 10, no significant differences were found on the examined domains or on the overall scale with regard to the respondents' marital status (p>0.05). The respondents are satisfied with the nurses' work; with regard to the resulting medians and the average rank, the respondents who are divorced or widowed are more satisfied with the nurses' work than other groups, which is confirmed by the greater number of responses indicating full agreement with the content of the statements offered.

			the overall scale, as we regard to the patients' (rences in
Domain	Gender	Ν	Median (interquartile range)	M _{rank}	z	p
Patient satisfaction	Male	126	4.4 (3.8-4.8)	93.44	-0.164	0.870
Patient Satisfaction	Female	59	4.4 (3.8-4.8)	92.06	-0.104	0.070
Accessibility	Male	126	4.0 (3.3-4.5)	89.09	-1.462	0.144
Accessibility	Female	59	4.0 (3.8-4.8)	101.35	-1.402	0.144
Communication	Male	126	4.5 (4.0-5.0)	92.16	0 2 2 4	0.746
Communication	Female	59	4.5 (4.0-5.0)	94.79	-0.324	0.740
Ceale everall	Male	126	4.3 (3.8-4.7)	92.23	-0.286	0.775
Scale overall	Female	59	4.3 (3.8-4.8)	94.64	-0.286	0.775

Table 9. The medians of the domains and the overall scale, as well as the testing of differences in patient satisfaction with regard to the patients' LEVEL OF EDUCATION (N=185)

Domain	Level of education	Ν	Median (interquartile range)	M _{rank}	χ²	df	P
	Primary	З	3.8 (3.4-4.6)	60.67			
	Secondary	137	4.3 (3.8-4.8)	90.64			
Patient satisfaction	Tertiary (Bachelor)	18	4.2 (3.8-4.7)	87.58	5.027	З	0.170
	Tertiary (Master)	27	4.6 (4.1-4-8)	112.20			
	Primary	З	4.0 (3.0-4.5)	82.33			
	Secondary	137	4.0 (3.3-4.5)	88.88			
Accessibility	Tertiary (Bachelor)	18	4.3 (3.6-4.5)	96.19	4.821	З	0.185
	Tertiary (Master)	27	4.5 (4.0-4.8)	112.96			
	Primary	З	4.0 (3.0-5-0)	73.67			
	Secondary	137	4.3 (4.0-5.0)	90.50			
Communication	Tertiary (Bachelor)	18	4.1 (3.9-5.0)	89.22	3.943	З	0.268
	Tertiary (Master)	27	5.0 (4.0-5.0)	110.37			
	Primary	З	3.8 (3.3-4.7)	66.17			
	Secondary	137	4.3 (3.8-4.7)	90.06			
Scale overall	Tertiary (Bachelor)	18	4.2 (3.8-4.7)	89.33	5.155	З	0.161
	Tertiary (Master)	27	4.6 (4.0-4.8)	113.35			

Differences in patient satisfaction with regard to the respondents' employment status

According to the results of the Kruskal-Wallis test shown in table 11, no statistically significant differences were found in the examined domains or on the overall scale with regard to the respondents' employment status (p>0.05). The respondents are satisfied with the nurses' work; with regard to the resulting medians and the average rank, the respondents who are temporarily employed or are retired are more satisfied than other groups, which was confirmed by the greater number of responses indicating full agreement with the content of the statements offered.

Differences in patient satisfaction with regard to the respondents' annual income

According to the results of the Kruskal-Wallis test shown in table 11, significant differences were found in the examined domains, as well as on the overall scale with regard to the respondents' annual income (p>0.01). Taking into account the resulting medians and average ranks, satisfaction is more often present in respondents with an annual income in the range between 26.000 to 35.000 HRK and the range between 36.000 to 45.000 HRK, which is confirmed by a greater number of answers indicating full agreement with the content of the statements offered.

Table 10. The medians of the domains and the overall scale, as well as the testing of differences in patient satisfaction with regard to the patients' MARITAL STATUS (N=185)

Domain	Marital status	N	Median (interquartile range)	M _{rank}	χ²	df	p
	Single	37	4.2 (3.6-4.7)	85.53			
	Married	107	4.4 (3.8-4.8)	94.05			
Dationt caticfaction	Divorced	14	4.7 (4.1-4.9)	118.32	4.713	5	0.452
Patient Satisfaction	Widowed	7	4.4 (3.6-4.7)	96.07	4./15	C	0.452
	Life partnership	8	4.4 (2.9-4.8)	81.38			
	DomainMarital statusN(interquartile range)Single374.2 (3.6-4.7)Married1074.4 (3.8-4.8)Divorced144.7 (4.1-4.9)Widowed74.4 (3.6-4.7)	4.2 (3.5-4.6)	83.08				
	Single	37	4.0 (3.1-4.5)	86.16			
	Married	107	4.0 (3.5-4.5)	90.79			
Accorcibility	Divorced	14	4.4 (4.0-5.0)	122.36	7.089	5	0.214
Accessionity	Widowed	7	4.5 (3.8-5.0)	119.14	7.009	C	0.214
	Life partnership	8	4.0 (3.0-4.9)	93.00			
	Other	12	3.6 (3.1-4.8)	84.29			
	Single	37	4.0 (3.9-5.0)	86.65			
	Married	107	4.5 (4.0-5.0)	94.23			
Communication	Divorced	14	4.9 (4.0-5.0)	111.96	4.028	5	0.545
Communication	Widowed	7	4.8 (3.8-5.0)	100.29	4.020	C	0.545
	Life partnership	8	4.1 (3.1-4.8)	72.56			
	Other	12	4.3 (3.6-5.0)	88.88			
	Single	37	4.2 (3.6-4.7)	85.77			
	Married	107	4.3 (3.9-4.8)	93.18			
Scolo ovorall	Divorced	14	4.7 (4.1-4.9)	120.32	E 1 7 E	5	0.401
Scale overall	Widowed	7	4.6 (3.6-4.7)	101.14	5.125	C	0.401
	Life partnership	8	4.3 (2.9-4.8)	83.44			
	Other	12	4.2 (3.5-4.7)	83.42			

	ns of the domains an tisfaction with regare						nces in
Domain	Employment status	N	Median (interquartile range)	M _{rank}	χ²	df	P
	Unemployed	26	4.0 (3.0-4.6)	70.12			
	Employed full-time	136	4.4 (3.8-4.8)	96.20			
	Employed part-time	1	4.0 (4.0-4.0)	66.00			
Patient satisfaction	Temporarily employed	5	4.6 (4.0-4.7)	100.70	8.956	6	0.176
	Retired	13	4.6 (4.3-4.8)	111.88			
	Self-employed	З	3.9 (3.4-4.9)	83.50			
	Other	1	3.4 (3.4-3.4)	24.50			
	Unemployed	26	3.8 (2.8-4.5)	74.75			
	Employed full-time	136	4.0 (3.5-4.5)	94.16			
	Employed part-time	1	4.0 (4.0-4.0)	86.50			
Accessibility	Temporarily employed	5	4.8 (3.5-4.9)	118.20	8.560	6	0.200
	Retired	13	4.3 (4.0-4.8)	116.73			
	Self-employed	З	4.0 (2.3-4.5)	77.17			
	Other	1	3.0 (3.0-3.0)	29.50			
	Unemployed	26	4.0 (3.2-5.0)	72.69			
	Employed full-time	136	4.5 (4.0-5.0)	94.24			
	Employed part-time	1	4.0 (4.0-4.0)	59.00			
Communication	Temporarily employed	5	5.0 (3.9-5.0)	111.20	12.168	6	0.058
	Retired	13	5.0 (4.3-5.0)	123.38			
	Self-employed	З	4.0 (4.0-5.0)	88.67			
	Other	1	3.0 (3.0-3.0)	14.00			
	Unemployed	26	3.8 (3.0-4.7)	70.75			
	Employed full-time	136	4.3 (3.8-4.8)	95.75			
	Employed part-time	1	4.0 (4.0-4.0)	67.00			
Scale overall	Temporarily employed	5	4.6 (4.0-4.7)	103.10	9.223	6	0.161
	Retired	13	4.6 (4.3-4.7)	114.81			
	Self-employed	З	4.0 (3.3-4.8)	81.50			
	Other	1	3.3 (3.3-3.3)	24.00			

Discussion

Patient satisfaction is not just a legitimate demand, but also an important and desirable outcome of every treatment (22,23). In this study conducted on patients, it can be concluded that patients are satisfied with the work of the nurse in primary care. 97 respondents (52.4%) fully agree and 65 respondents (35.1%) agree with the statement "I was satisfied with my visit to the nurse".

Research conducted worldwide on patient satisfaction with the work of nurses shows that patients are generally satisfied with the care provided by nurses. A study conducted in Ireland using the EUROPEP form with questions related to politeness, careful listening, explaining procedures and assistance pro-

	dians of the domaiı ent satisfaction wit						erences in
Domain	Annual income	N	Median (interquartile range)	M _{rank}	χ²	df	p
	< than 15.000	37	3.9 (3.2-4.6)	70.18			
	15.000-25.000	1	3.8 (3.8-3.8)	47.00			
Patient	26.000-35.000	10	4.6 (4.3-4.8)	117.10	14000	5	0.006**
satisfaction	36.000-45.000	5	4.7 (4.1-4.9)	120.80	14.989		0.000
	46.000-55.000	19	3.9 (3.1-4.7)	75.79			
	> than 60.000	113	4.4 (3.9-4.8)	100.41			
	< than 15.000	37	3.8 (2.6-4.3)	69.78			
	15.000-25.000	1	3.3 (3.3-3.3)	40.00			
Accessibility	26.000-35.000	10	4.8 (4.3-5.0)	143.05	21.291	5	0.010**
Accessibility	36.000-45.000	5	4.5 (3.1-5.0)	115.10	CT.CAT	D	0.010
	46.000-55.000	19	3.8 (3.0-4.5)	74.95			
	> than 60.000	113	4.0 (3.8-4.5)	98.70			
	< than 15.000	37	4.0 (3.3-5.0)	74.74			

4.0 (4.0-4.0)

5.0 (4.0-5.0)

5.0 (4.1-5.0)

4.0 (3.0-5.0)

4.5 (4.0-5.0)

3.8 (3.0-4.7)

3.8 (3.8-3.8)

4.6 (4.3-4.9)

4.7 (4.0-4.6)

4.0 (3.2-4.6)

4.4 (4.0-4.8)

59.00

121.30

117.70

69.89

99.57

69.95

44.00

123.90

119.00

74.71

100.71

15.025

16,460

5

5

0.001**

0.010**

**p≤0.01

Communication

Scale overall

vided by a nurse indicates that patients are satisfied with the work of nurses (9). In our study, the patients rated the actions of nurses regarding listening to patients and explaining procedures positively. This is indicated by the answers to the statements: 156 (84.4%) respondents fully agree or agree with the statement "the nurse listened to what I had to say", whereas 159 (86%) respondents fully agree or agree with the statement "the nurse explained things to me in an understandable way".

15.000-25.000

26.000-35.000

36.000-45.000

46.000-55.000

> than 60.000

< than 15.000

15.000-25.000

26.000-35.000

36.000-45.000

46.000-55.000

> than 60.000

1

10

5

19

113

37

1

10

5

19

113

Several studies from eight European countries (Norway, Sweden, Denmark, the United Kingdom, the Netherlands, Germany, Portugal and Ireland) examined medical-technical care, the doctor-patient relation, information sharing, availability, accessibility and the organization of the service. Aspects of general health care were rated highest, while waiting for a consultation, assistance with emotional problems caused by health issues and concerns about treatment costs (9) were rated lower.

Studies done in Canada and New Zealand used the Thrasher and Purc-Stephenson instrument for the measurement of satisfaction and acceptance of health care provided by the nurse. Patients were generally satisfied with the provided care and participation in the treatment (10).

A 1995 USA study on patient satisfaction with the care of nurses, utilizing the Di Tomasso-Willard questionnaire, showed that 97% of the patients were satisfied with the nurses' services (11).

Comparisons between nurses and other health care providers in America found no significant difference between the patient's baseline characteristics and health status (12).

In Croatia, several studies have been conducted to determine patients' satisfaction levels with the work of primary health care providers. A study conducted in 100 general/ family practitioners' offices in the area of Istria, Primorje-Gorski Kotar, Međimurje, Osijek-Baranja and Vukovar-Srijem counties found that most patients were satisfied with the services they received at the family physician's office (4).

A study has been conducted in the Rovinj, Poreč, Umag, Labin, Opatija, Čakovec, Đakovo and Vinkovci areas on the quality of service. There were problems in conducting the survey, because out of 10.000 distributed questionnaires, a large number of the questionnaires was not filled in. In some offices, surveys were not conducted even though the offices had agreed to participate in the survey. Despite implementation problems, researchers were satisfied with the results because they pointed out problems that we are often not even aware of, and which most patients will not openly tell us about (13).

In Croatia, surveys conducted at family physicians' offices provide information on the opinions of patients, where the majority of them is satisfied with the service they receive, while in some settings, dissatisfaction does not exceed 50% of respondents (13). In most offices, waiting times are too long, the main reasons being too many patients, non-implementation of a patient appointment system, a large number of repeated examinations caused by lengthy processing and lengthy administrative procedures (13).

More than 60% of respondents at the Ministry of the Interior's Health Centre responded to the statements about the possibility of setting up an appointment by fully agreeing and agreeing; while 119 (64.3 %) respondents fully agree of agree with the possibility of setting up an appointment with the nurse. The patient appointment system is possible by telephone at a time specified for setting up patient appointments.

It is also possible to set up appointments via e-mail and SMS.

A significant difference between the domains of satisfaction with the work of nurses according to gender was determined to a slightly lesser extent in respondents in the age group of between 26 and 40 years of age. Also, the values obtained show there is no statistically significant difference in the patients' satisfaction with the nurses' work with regard to the respondents' level of education. Using the same research instrument, Novaković obtained results showing that respondents with tertiary (Master) degrees are more satisfied with nurses' services, but at the same time respondents with primary education were also satisfied with the services of the nurse (4). According to the obtained results, a statistically significant difference between the respondents' satisfaction with the work of nurses according to annual income is more pronounced in respondents with an annual income of between 26.000 and 35.000 HRK and in the range between 36.000 and 45.000 HRK. Novaković did not obtain these income differences in her study (4).

Agosta states that studies measuring patient satisfaction give positive results because of the impact of nurses' communication (14). Nurses have a major role in communicating with patients, not only because they are the first to meet and register the patient, but also because the patients themselves have a closer relationship with the nurse than with the doctor. It is easier for patients to talk about their issues with nurses, because they assume that nurses know and understand them better. Successful communication promotes a faster and more accurate diagnosis, greater patient satisfaction and better adherence to health recommendations and instructions (15).

Conclusion

The results of this study show that the patients who use the Health Centre of the Ministry of the Interior of the Republic of Croatia are satisfied with the work of nurses in primary health care. There is no significant difference in patient satisfaction with the work of nurses in primary care with respect to the patients' gender, marital status, working status and level of education.

There is a significant difference in patient satisfaction with the work of nurses in primary care with respect to the patients' age. The respondents in the age group of between 26 and 40 years of age are slightly less satisfied.

There is a significant difference in patient satisfaction with the work of nurses in primary care with respect to the patients' annual income. Satisfaction is more pronounced among respondents with an annual income of between 26.000 and 35.000 HRK and in the range between 36.000 and 45.000 HRK.

The data obtained through this study of patient satisfaction is not representative enough to serve as a decision-making base on a large scale, but is informative and adequate for the creation of an organizational system that puts the patient at the centre of attention. Measuring patient satisfaction should become one of the usual methods of our work, pointing out the necessary changes and showing patients that we care about their opinions.

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ZADOVOLJSTVO PACIJENATA RADOM MEDICINSKE SESTRE / MEDICINSKOG TEHNIČARA U PRIMARNOJ ZDRAVSTVENOJ ZAŠTITI

Sažetak

Uvod. Zadovoljstvo pacijenata pruženom zdravstvenom njegom jedan je od važnih indikatora kvalitete zdravstvene skrbi i zadnjih se godina učestalo provode istraživanja na temu zadovoljstva pacijenata.

Cilj. Provedeno je prospektivno presječno istraživanje u Domu zdravlja Ministarstva unutarnjih poslova Republike Hrvatske u periodu od travnja do lipnja 2019. godine. Cilj istraživanja bio je ispitati zadovoljstvo pacijenata radom medicinskih sestara/tehničara u primarnoj zdravstvenoj zašiti.

Metode. Primijenjen je standardizirani upitnik Nursing Practitioner Satisfaction Survey, za koji smo dobili odobrenje autorice. U istraživanju je sudjelovalo 200 pacijenata Doma zdravlja Ministarstva unutarnjih poslova Republike Hrvatske. U istraživanje su bili uključeni pacijenti koji su došli u ambulante Doma zdravlja i trebali usluge samo medicinskih sestara/ tehničara. Od 200 anketiranih pacijenata 185 anketa ispravno je ispunjenih, dok je 15 anketa bilo neispravno ispunjeno.

Rezultati. Pacijenti Doma zdravlja Ministarstva unutarnjih poslova Republike Hrvatske zadovoljni su radom medicinskih sestara/tehničara u primarnoj zdravstvenoj zaštiti. Ne postoji statistički značajna razlika u zadovoljstvu radom medicinskih sestara/tehničara u primarnoj zdravstvenoj zaštiti prema spolu, stručnoj spremi, bračnom te radnom statusu. Statistički je značajna razlika u zadovoljstvu pacijenata radom medicinskih sestara/tehničara prema dobi ispitanika, nezadovoljniji su ispitanici u dobnoj skupini od 26 do 40 godina (Kruskal-Wallisov test, Me = 3,8). Postoji statistički značajna razlika u zadovoljstvu pacijenata radom medicinskih sestara/tehničara u primarnoj zdravstvenoj zaštiti prema visini godišnjih prihoda ispitanika, gdje je zadovoljstvo u većoj mjeri prisutno kod ispitanika s godišnjim prihodima u rasponu od 26.000,00 kn do 35.000,00 kn i rasponu od 36.000,00 kn do 45.000,00 kn (Kruskal-Wallisov test, p < 0,01).

Zaključak. Pacijenti u ovom istraživanju zadovoljni su radom medicinskih sestara/tehničara u primarnoj zdravstvenoj zaštiti. Postoje značajne razlike s obzirom na dob i visinu godišnjih prihoda.

Ključne riječi: zadovoljstvo pacijenta, medicinska sestra / medicinski tehničar u primarnoj zdravstvenoj zaštiti, upitnici za mjerenje zadovoljstva pacijenata