PREDICATORS OF SATISFACTION AND DISSATISFACTION OF MEDICAL WORKERS WITH THEIR WORK IN MEDICAL INSTITUTION

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Abstract
The resulting criterion of assessment of staff management effectiveness in health protection institution is a satisfaction of medical workers with their work. So, it is important to know the predictors of satisfaction and dissatisfaction with the work.

The aim of the research was in determination of the predictors of satisfaction and dissatisfaction with the work in medical institution.

There was carried out the interrogation of 395 doctors (52 \%) and hospital nurses (48 \%) of the institutions of Kyiv city (Ukraine) by the form (response 81 \%), formed of 12 questions and 3 answers “Yes”, “No”, “Not decided” (α of Cronbach 0,82). Pearson’s consent coefficient (χ²) was used for determination of the differences in the answer structures.

The reliable difference in the index of general satisfaction of doctors (95 % DI: 69,87 \%; 76,31 \%) and hospital nurses (95 % DI: 70,10 \%; 75,39 \%) was not revealed. Analogously there were not revealed such differences in the index of general dissatisfaction of doctors (95 % DI: 17,97 \%; 24,09 \%) and hospital nurses (95 % DI: 16,76 \%, 21,80 \%). The structures of answers to the question about patients’ attitude did not reliably (p<0,05) differ (94,12 \% of doctors, 79,52 \% of hospital nurses answered “YES”), about improvement of medical help at material stimulation by patients (20 % of doctors, 13,25 \% of hospital nurses – “YES”), about the choice of own profession again (41,18 \% of doctors, 20,48 \% hospital nurses – “NO”).

It was determined that the predicators of medical workers’ satisfaction with their work are an attitude of colleges, patients, leader, climate in collective, and the ones of dissatisfaction – a salary, management system, labor conditions.

Keywords: satisfaction with work, doctors, hospital nurses.

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1. Introduction
The resulting criterion of assessment of staff management effectiveness in health protection institution is medical workers’ satisfaction with their work [1]. Satisfaction of medical workers is connected with the quality of primary medical help [2]. Their dissatisfaction is considered as a risk factor of burnout syndrome development and the one of care for patients [2] Medical workers’
satisfaction influences patients’ one that is the one of criteria of assessment of medical care quality in an institution [3]. Tarja Kvist et al established that hospital nurses’ satisfaction conditions the high quality of medical help [4], and dissatisfaction – low-quality medical help, bad clinical results and higher staff turnover [5]. The most important prognostic factor of medical workers’ satisfaction is patients’ perception of the care quality [6].

The efforts of staff management in health care institution must be directed on creation of conditions that help staff to get satisfaction from the work. For this aim it is necessary to be able to assess and to analyze the predictors of satisfaction and dissatisfaction of medical workers with their work in an institution.

According to the literary data, the different indices of medical workers’ satisfaction with their work are registered in the world. Thus in China 53.7 % of medical workers are satisfied with their work [7]. But only 3 % of doctors in hospitals and 27 % of doctors of primary medical care in China are satisfied with salary [8]. In Tanzania 73.9 % of medical workers are satisfied with their work but only 11.6 % among them are satisfied with their salary [9]. In Poland 71.32 % of anesthesiologists are satisfied with their work [10]. In Germany 52.2 % of surgeons are satisfied with their labor [11]. According to the data of Tyssen R. et al, American doctors are less satisfied with their labor comparing with Canadian and Norwegian ones that is conditioned by the different systems of the medical branch financing [12].

There is a series of interrelated factors that condition medical workers’ dissatisfaction with the work: high level of responsibility, unsatisfactory labor conditions, long working shift [13], absence of professional autonomy, total control of leaders, dangerousness of working places, aggression from patients and their relatives [14], low level of recompense, inadequate salary, bad access to professional development or its absence [15]. In Ukraine hospital nurses’ dissatisfaction with the work is conditioned by the low level of salary, work content, absence of autonomy and possibility of professional growth [16].

But it is very important to have medical workers, satisfied with their work in institution. Okello DR & Gilson L think that satisfied and motivated medical workers play the extremely important role in provision of effective and high-quality medical services [17].

According to the literary data, there are five main parameters of the work that form workers’ satisfaction: work content (interesting tasks, cognition of new, responsibility), recompense (salary and additional privileges, gotten by a worker), advancement (possibility of career growth), system of management and leadership (leader’s ability to give technical and moral support, relations with a leader), climate in collective and colleges (competence degree and social support level) [18].

2. *Aim of research*

Determination of predictors of satisfaction and dissatisfaction of doctors and hospital nurses with their work in medical institution.

3. *Materials and methods*

There was carried out the interrogation of 395 medical workers of institutions of city Kyiv by the form, elaborated at the department of management of health protection at the National medical university, named after O. O. Bogomolets (response 81 %). The form consisted of 12 questions and 3 possible answers “Yes”, “No”, “Not decided” to each question. In the form the questions № 1–8 – are the direct ones as to satisfaction and dissatisfaction with the work and № 9–12 – indirect ones (Table 1).

The index of general satisfaction (in %) was calculated as the mean value of the share of received answers “Yes” to the direct questions № 1–8. The index of general dissatisfaction (in %) was calculated as the mean value of the share of received answers “No” to the direct questions № 1–8.

The form was filled by respondents anonymously. They noted their age, length of service in institution, sex and post (doctor or hospital nurse). For verifying the validity of gotten results, there was carried out the interrogation of professors of the department of health protection management of the national medical university, named after O. O. Bogomolets before the research. The form reliability was verified by Alp Cronbach’s index (α=0.82).
Table 1
Questions of the form of the study of satisfaction with the work

<table>
<thead>
<tr>
<th>№</th>
<th>Question</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I am satisfied with the work content in institution</td>
</tr>
<tr>
<td>2</td>
<td>I am satisfied with the salary in institution</td>
</tr>
<tr>
<td>3</td>
<td>I am satisfied with the management system in institution</td>
</tr>
<tr>
<td>4</td>
<td>I am satisfied with the labor conditions in institution</td>
</tr>
<tr>
<td>5</td>
<td>I am satisfied with the collective of institution</td>
</tr>
<tr>
<td>6</td>
<td>I am satisfied with the colleges’ attitude to me</td>
</tr>
<tr>
<td>7</td>
<td>I am satisfied with the leader’s attitude to me</td>
</tr>
<tr>
<td>8</td>
<td>I am satisfied with patients’ attitude to me</td>
</tr>
<tr>
<td>9</td>
<td>I would work better, if my salary was higher</td>
</tr>
<tr>
<td>10</td>
<td>If I was materially stimulated by patients, I would give better medical help</td>
</tr>
<tr>
<td>11</td>
<td>I would choice my profession again, if it would be necessary to choose the new one</td>
</tr>
<tr>
<td>12</td>
<td>I would choose another profession, if I would be offered with essentially higher salary for it</td>
</tr>
</tbody>
</table>

The results of research were analyzed using IBM SPSS Statistics Base v.22 after purification of the data and coding of the results of anonymous respondents. Pearson’s consent coefficient (χ²) was used for determination of the differences in the answer structures.

The mean age of respondents was 43,3±0,3 years, mean length of service – 19,01±0,5 years. Among respondents there were 75,6 % of women – 24,4 % of men. Among interrogated persons there were 52 % of doctors and 48 % of hospital nurses.

4. Results
The results of interrogation of medical workers as to their general satisfaction or dissatisfaction with the work are presented in the Tables 2, 3.

Table 2
Mean value of the index of general satisfaction with work in the group of hospital nurses and in the one of doctors

<table>
<thead>
<tr>
<th>post</th>
<th>Mean value (%)</th>
<th>DI -95 %</th>
<th>DI +95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital nurses</td>
<td>72,74</td>
<td>70,10</td>
<td>75,39</td>
</tr>
<tr>
<td>Doctors</td>
<td>73,09</td>
<td>69,87</td>
<td>76,31</td>
</tr>
</tbody>
</table>

Table 3
Mean value of the index of general dissatisfaction with work in the group of hospital nurses and in the one of doctors

<table>
<thead>
<tr>
<th>post</th>
<th>Mean value (%)</th>
<th>DI -95 %</th>
<th>DI +95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital nurses</td>
<td>19,28</td>
<td>16,76</td>
<td>21,80</td>
</tr>
<tr>
<td>Doctors</td>
<td>21,03</td>
<td>17,97</td>
<td>24,09</td>
</tr>
</tbody>
</table>
The presented data testify to the absences of the differences of indices of medical workers’
general satisfaction and general dissatisfaction with their work in the group of hospital nurses and
in the one of doctors.

The analysis of the structures of answers to the questions from the form in both groups is
presented in the Table 4.

Table 4
Distribution of answers to the questions from the form of determination of doctors’ and hospital nurses’
satisfaction with their work (in %)

<table>
<thead>
<tr>
<th>№ question</th>
<th>Distribution of hospital nurses’ answers</th>
<th>Distribution of doctors’ answers</th>
<th>χ²</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>yes</td>
<td>no</td>
<td>not decided</td>
<td>yes</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>30,12</td>
<td>66,27</td>
<td>3,61</td>
<td>16,47</td>
</tr>
<tr>
<td>3</td>
<td>56,63</td>
<td>22,89</td>
<td>20,48</td>
<td>62,35</td>
</tr>
<tr>
<td>4</td>
<td>50,6</td>
<td>39,76</td>
<td>9,64</td>
<td>48,24</td>
</tr>
<tr>
<td>5</td>
<td>95,18</td>
<td>1,2</td>
<td>3,62</td>
<td>97,64</td>
</tr>
<tr>
<td>6</td>
<td>96,39</td>
<td>1,2</td>
<td>2,41</td>
<td>98,82</td>
</tr>
<tr>
<td>7</td>
<td>89,16</td>
<td>7,23</td>
<td>3,61</td>
<td>92,94</td>
</tr>
<tr>
<td>8</td>
<td>79,52</td>
<td>7,23</td>
<td>13,25</td>
<td>94,12</td>
</tr>
<tr>
<td>9</td>
<td>53,01</td>
<td>32,53</td>
<td>14,46</td>
<td>57,64</td>
</tr>
<tr>
<td>10</td>
<td>13,25</td>
<td>69,88</td>
<td>16,87</td>
<td>20</td>
</tr>
<tr>
<td>11</td>
<td>69,88</td>
<td>20,48</td>
<td>9,64</td>
<td>51,76</td>
</tr>
<tr>
<td>12</td>
<td>30,12</td>
<td>53,01</td>
<td>16,87</td>
<td>22,35</td>
</tr>
</tbody>
</table>

The structures of answers of hospital nurses and doctors to the questions from the form al-
most did not differ (p>0,05). But according to Pearson’s consent criterion χ² there were established
the reliable differences in the structures of answers to the following questions “I am satisfied with
patients’ attitude to me” (No. 8), “If I was materially stimulated by patients, I would give better
medical help” (No. 10), “I would choice my profession again, if it would be necessary to choose the
new one” (No. 11) (p<0,05).

In the structure of doctors’ answers there was the higher share of persons, satisfied with pa-
tients’ attitude to them, than in the structure of hospital nurses’ answers (94,12 % against 79,52 %).
At the same time in the structure of hospital nurses’ answers the more share was dissatisfied with
patients’ attitude and answered “No” to this question (7,23 % against 3,53 %). At the same time in
the structure of hospital nurses’ answers to the question No. 8 the more share of persons could not
decide about satisfaction with patients’ attitude to them than in the structure of doctors (13,25 %
against 8,55 %).

In the structure of doctors’ answers to the question No. 10 “If I was materially stimulated
by patients, I would give better medical help” the more share of persons answered “Yes” than in
the structure of hospital nurses’ answers (20 % against 13,25 %). But in the structure of answers
the essential share of both doctors (75,29 %), and hospital nurses (69,88 %) answered “No” to this
question. It is necessary to note, that in the structure of hospital nurses’ answers to this question the
essential share of persons could not choose the answer (16,87 % of hospital nurses against 4,71 %
of doctors).
The structure of answers to the question No. 9 “I would work better, if my salary was higher” did not reliably differ in both groups (p>0.05). Most hospital nurses and doctors answered “Yes” to this question (53.01 % against 57.64 %).

In the structure of doctors’ answers there was revealed the more share of persons, who answered “No” to the question No. 11 “I would choice my profession again, if it would be necessary to choose the new one”, than in the one of hospital nurses’ structure (41.18 % against 20.48 %). At the same time in the structure of hospital nurses’ answers to this question the more share answered “Yes” (69.88 % against 51.76 %).

At the same time it must be noted, that in the structures of hospital nurses’ and doctors’ answers the least shares of answer “Yes” were to the question No. 2 “I am satisfied with the salary”, No. 3 “I am satisfied with the management system in institution” and No. 4 “I am satisfied with labor conditions”. At the same time the most shares of answers were to the question № 5 “I am satisfied with the collective of institution” and No. 6 “I am satisfied with colleges’ attitude to me”.

5. Discussion of results
The received results testify that hospital nurses and doctors have no differences in the indices of general satisfaction and dissatisfaction with their work.

The most shares of answers “Yes” that reach almost 100 % are noted in the structures of answers to the questions “I am satisfied with the collective of institution” and “I am satisfied with colleges’ attitude to me”. So, medical workers get satisfaction from the climate in collective, from the work in united collective. The aforesaid is proved by the literary data as to the positive influence of colleges’ support and set team work, built on trusting principles on the satisfaction [19, 20].

In the structure of answers there were determined the lowest shares of positive answers in both doctors and hospital nurses to the questions “I am satisfied with the salary” (16.47 % and 30.12 % respectively), “I am satisfied with the labor conditions” (48.24 % against 50.6 %) and “I am satisfied with the management system in institution” (62.35 % against 56.36 %). It is also proved by the literature data. According to the data of Wu D et al the most important factors of the negative influence of doctors’ satisfaction are the low incomes and duration of working day. Only 30.0 % of Chinese doctors were satisfied with their salary and 50.0 % of doctors – with duration of their working day [8]. This idea is also shared by Atif K et al that also established the negative influence of salary on the satisfaction with work [21].

In Ukraine in 2016 the mean salary varied within 160–250 $, and the mean salary of medical workers varied within 130–180 $. So, such low salary negatively influences the satisfaction of medical workers with their work.

It was established, that the structures of answers to the question “I am satisfied with patients’ attitude” reliably differed in doctors and hospital nurses. The more share of positive answers was in the structure of doctors’ answers. It is probably conditioned by the fact that hospital nurses have more contact with patients, the emotional burnout syndrome develops more often and earlier in them that negatively influences the attitudes with patients [22].

At the same time the structures of answers to the questions “If I was materially stimulated by patients, I would give better medical help” (No. 10) and “I would choice my profession again, if it would be necessary to choose the new one” (No. 11) are reliably different (p<0.05).

It must be noted, that most doctors and hospital nurses answered “No” to the question “If I was materially stimulated by patients, I would give better medical help”. But in doctors’ structure there was a bit more share of persons, who answered “Yes”, comparing with hospital nurses.

Probably, the lower status in hierarchy, patients’ attitude, lower salary in medical institution conditioned the fact that the more share of hospital nurses answered “Yes” to the question as to the possibility to choose the new non-medical profession. But 41.18 % of doctors answered “No” to this question against 20.48 % of hospital nurses. The aforesaid testifies to the doctors’ dissatisfaction with their profession, to their disillusion. The analogous dissatisfaction was determined also among Chinese doctors [8]. According to the data of Wu D. et al., in China only 4.5 % want their children to become doctors [8]. It is conditioned by the low salary (34 %), high risk for life (17 %), patients’ aggression (9 %).
The analysis testifies that the predictors of medical workers’ satisfaction are colleges’, patients’, leader’s attitude, climate in collective and the ones of dissatisfaction – salary, management system, labor conditions. Determination of aforesaid predictors gives a possibility to analyze the effectiveness of staff management in health protection institution and elaborate the arrangements for the influence on the predictors of dissatisfaction with the work to improve the staff satisfaction that is a guarantee of medical care for patients.

6. Conclusions

1. The reliable difference in the index of doctors’ and hospital nurses’ general satisfaction and dissatisfaction was not revealed.

2. The structures of doctors’ and hospital nurses’ answers reliably differed to the question about satisfaction with patients’ attitude (94.12 % of doctors answered “Yes”, 79.52 % of hospital nurses), about the improvement of medical help at patients’ material stimulation (20 % of doctors – “YES”, 13.25 % of hospital nurses), about the choice of own profession again (41.18 % of doctors – “NO”, 20.48 % of hospital nurses).

3. It was determined, that the predictors of medical workers’ satisfaction are colleges’, patients’, leader’s attitude, climate in collective and the ones of dissatisfaction – salary, management system, labor conditions.

Recommendations

The introduction of periodical study of medical workers’ satisfaction with their work by leaders of health protection institutions allows determine the predictors of dissatisfaction and timely elaborate the arrangements for minimization of their negative influence on medical help quality.

References


