Do nurses and patient relatives have different perceptions about the critical care family needs? A cross-sectional study in a university hospital Turkey

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Purpose: This study aims to compare the perceptions of nurses and families on the needs of the relatives of the patients in Intensive Care Unit (ICU).

Methods: This cross-sectional study was conducted in the ICU of a university hospital. The study comprised 213 critical care patients' relatives and 54 nurses working in the same ICU. Data were collected using the Critical Care Family Needs Inventory (CCFNI) and a questionnaire on the characteristics of the participants. The difference between the perceptions of families and nurses was analyzed using Student t-test.

Results: CCFNI's assurance/proximity subscale mean scores ranked first among both patients and nurses. The item "To be assured the best care possible is being given to the patient" was the top priority for both groups. Mean assurance/proximity and information dimensions of relatives were significantly higher compared to nurses (p <0.001). No significant difference was found between the perception of patient relatives and nurses related to support and comfort dimensions (p> 0.05). Conclusion: Patients' relatives needs are underestimated by nurses. This inhibited the performance of ICU nurses in line with the holistic care approach. Educational objectives that include the needs of ICU patients' relatives should be incorporated into the undergraduate and in-service training of nurses. Policies should be established to create space and time for effective relative-nurse communication.

1   **Title Page**

2   **The title**

3   Do Nurses and Patient Relatives Have Different Perceptions About the Critical Care Family

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50 relatives of the patients in Intensive Care Unit (ICU).

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54 questionnaire on the characteristics of the participants. The difference between the perceptions of

55 families and nurses was analyzed using Student t-test.

56 **Results: CCFNI's assurance/proximity subscale mean scores ranked first among both**

57 **patients and nurses. The item "To be assured the best care possible is being given to the**

58 **patient" was the top priority for both groups. Mean assurance/proximity and information**

59 **dimensions of relatives were significantly higher compared to nurses ($p < 0.001$). No**

60 **significant difference was found between the perception of patient relatives and nurses**

61 **related to support and comfort dimensions ($p > 0.05$).**

62 **Conclusion:** Patient' relatives needs are underestimated by nurses. This inhibited the

63 performance of ICU nurses in line with the holistic care approach. **Educational objectives that**

64 **include the needs of ICU patients' relatives should be incorporated into the undergraduate**

65 **and in-service training of nurses. Policies should be established to create space and time for**

66 **effective relative-nurse communication.**

67 **Key Words**: Intensive care, Critical Care Family Needs Inventory, Nurse, Family needs, Critical

68 care

69 **Introduction**

70   The stress level of the relatives of the patients who are admitted to Intensive Care Unit

71 (ICU) is quite high due to serious and unstable conditions of their patients (1,2). Moreover, as

72 these patients are mostly unable to communicate due to sedation, mechanical ventilation,

73 confusion, and coma, their family members are asked to make treatment decisions on the

74 patient's behalf (3). Procedures such as tracheotomy, operation consent, and transfer to the

75 service can become very serious sources of conflict with the health care professionals at the point

76 where the patient relatives have all decision-making rights. ICU nurses are in close contact with

77 patients and their families, so they can support family members to overcome this process. (2).

78 However, ICUs, where confusion and uncertainty prevail, are quite dynamic environments for

79 healthcare professionals. This necessitates taking, fast and correct decisions. Because of these

80 conditions' healthcare professionals may neglects the needs of the patients' families (4). The

81 negligence contradicts with the holistic care approach, which is one of the professional features

82 of the profession. Family participation, which is at the center of the holistic care approach, is an

83 important component of the patient's treatment process (5,3). Considering the fact that patient-

84 centered care is directed towards family-based healthcare, it is important to evaluate the needs of

85 patient families, especially in the ICU (1). Family members may experience extreme stress and

86 anxiety, feel helpless and unable to cope with this situation (3). Fear of death of their loved one,

87 uncertainty about prognosis, financial concerns, changes in family roles, limited access to the

88 critical care environment trigger feelings of shock, anger, denial, and despair within 72 hours

89 after admission to the ICU. They may even lead to feelings of guilt and depression in some cases

90 (6,7).

91   Correct assessment of their needs is one of the first steps in providing appropriate health

92   care to ICU patients and their families. *Molter* and *Leske* (1986) first described needs of the

93   families of patients in critical care units under five dimensions; 1) support, 2) comfort, 3)

94   information, 4) proximity, and 5) assurance (8,9). Nurses provide or coordinate requirements

95   such as fulfilling the family's need for in these five dimensions through bedside family/patient

96   interactions.

97   Problems in understanding these family needs may make it difficult to cope with the

98   crisis, which may eventually affect the patient's response to treatment. (10).

99   Examining family members 'and nurses' perceptions of the needs of inpatient families in

100   the ICU can provide an overview of the improvement of practices in this unit. Despite increasing

101   evidence obtained from studies conducted in this area, the number of studies conducted in the

102   Turkish society in the literature is very low. (11,12).

103   The socio-cultural and geographic contexts responsible for the diversity of family needs

104   of ICU patients can be very important factors, so evidence from different cultures of the world is

105   important. (13).

106   The objective of this study is to compare the perceptions of nurses and families on the

107   needs of the relatives of the patients in a university hospital Intensive Care Unit (ICU).

108

109   **Methods**

110   ***Setting and Samples***

111   The present cross-sectional study was carried out at the Anesthesia Intensive Care Unit of

112   *Dokuz Eylül* University Medical Faculty Hospital, one of the two major university hospitals in

113   Izmir. The unit has a capacity of 13 beds, average staffing is two patients per nurse and annual

114   patient capacity ranges between 450 and 500. The ICU, which provides tertiary-level intensive

115   care, offers services to postoperative cases as well as patients who require mechanical ventilation

116   for reasons such as polytrauma, chronic obstructive pulmonary disease, sepsis, and head trauma.

117   Three days a week, medical information is given to the patient's relatives by a critical care

118   physician. Afterwards, the attending nurse gives a bedside briefing on the day of the visit about

119   the necessary materials and nursing care, and the questions of the patient's relatives are

120   answered.

121   In this study, the average number of patients per year was accepted as a population size of

122   500, as only one family member was interviewed for each patient. The sample size representing

123   the population was calculated as 278 using a 95% confidence interval, a 5% margin of error and

124   unknown prevalence. A total of 213 family members of patients enrolled in the study, coverage

125   rate was 76.6%. The study targeted all 57 nurses working in the same critical care unit, and

126   94.7% (n:54) coverage was achieved.

127   Inclusion criteria for patient families included having a patient over 18 years of age in the

128   ICU for at least 24 hours, being connected with the patient through blood or marriage, and being

129   able to read and write. The inclusion criterion for nurses, on the other hand, was to be working in

130   the Department of Anesthesiology and Reanimation Intensive Care Unit for at least six months.

131

132   ***Data Collection Tools***

133   The research data were collected using a questionnaire form, where the characteristics of

134   nurses and patients were questioned separately, and the Critical Care Family Need Inventory

135   (CCFNI). The questionnaires given to patient families included items questioning the age,

136   gender, diagnosis of the patient as well as the age, gender, and relationship with patient. The

137   questionnaires applied to nurses included the age, the duration of work in the ICU, and the

138   experience of being a relative of a patient previously admitted to a critical care unit.

139   The Critical Care Family Need Inventory adapted to Turkish by *Büyükçoban* et. al. was

140   used in this study. The questionnaire developed by *Leske* comprised forty-five (45) items that

141   formed five major family "need" dimensions, namely, support (15 items), information (8 items),

142   proximity or closeness (9 items), assurance (7 items) and comfort (6 items). Participants were

143   asked to indicate the level of importance of each item measured on a 4-point Likert scale as

144   follows; 1) Not important; 2) Slightly important; 3) Important; 4) Very important. *Leske* reported

145   that the Cronbach alpha internal consistency coefficient calculated for the reliability study ranged

146   between 0.61 and 0.88 for subscales and was 0.92 for the whole inventory (9). Unlike the

147   original CCFNI, the revised Turkish version of the Inventory consists of fewer items (40) and

148   three dimensions rather than five. Dimensions of the Turkish adaptation are described as 'support

149   and comfort' (20 items), 'proximity and assurance' (11 items) and 'information' (9 items). The

150   Cronbach alpha coefficient calculated for the internal consistency of the Turkish inventory is

151   0.93 for the whole inventory and between 0.83 and 0.92 for the sub scale (14).

152

153   ***Procedure***

154   Ethical approval was granted by the Dokuz Eylül University Non-Clinical Studies Ethics

155   Committee, and a research permit was obtained from the Head of the Intensive Care Unit of the

156   Dokuz Eylül University Faculty of Medicine Department of Anesthesiology and Reanimation

157   (IRB number: 2666-GOA. 2016/12-10, 05.05.2016) Participants were verbally informed by an

158   ICU physician about the objectives of the study and their written consent was obtained making

159   clear that their participation would be on a voluntary basis. Confidentiality was preserved though

160   anonymity of participants by refraining from questioning their names. Questionnaires were

161   distributed to the participants by the same researcher, and they were asked to leave the completed

162   questionnaires in the drop-off boxes placed in the waiting room. The research team explained the

163   objectives of the study to the nurses, who were then given 30-35 minutes to fill in the

164   questionnaires in-hospital during their break time. Eight patient relatives who failed to complete

165   the questionnaires were excluded from the study.

166

167   *Data Analysis*

168   Data analysis was performed using SPSS 15.0 statistics package program. Independent t-

169   test was used to evaluate the difference between perceptions of families and nurses. A p-value of

170   <0.05 was regarded as statistically significant.

171

172   **FINDINGS**

173   The sociodemographic characteristics of the relatives and nurses are given in table 1. Half

174   of the members of patient families participated in the study were women, three quarters of them

175   are in upper secondary education, six out of ten were children of ICU patients (Table 1). Overall,

176   6.6% of the relatives of the patients reported that they were in critical care units before and

177   45.1% of the relatives were previously admitted to ICU. When the patient characteristics were

178   examined 60.6% of patients were male and 61.1% were over 65 years of age. Reasons for

179   hospitalization among critical care patients were chronic obstructive pulmonary disease and post-

180   operative care.

181   The mean age of the nurses was 31,9±6,1 and %81,5 was female. Nurses with critical

182   care experience of five years or more accounted for 35.2%. While 7.4% (n=4) of the nurses

183   reported that they were previously admitted to intensive care, 68.5% (n=37) stated that at least

184   one of their relatives was in an ICU.

185   A comparison of the mean item scores of patient families and nurses based on their

186   answers to CFFNI items is shown in Table 2. Patient relatives gave the highest rank scores to

187   items "To be assured the best care possible is being given to the patient,"

188   "To be called at home about changes in the patient's condition", and "To be assured it is alright

189   to leave the hospital for a while". The needs ranked in the first and third places by the family

190   members were equally important for the nurses. On the other hand, the mean score of patient

191   relatives for both items were higher than that of nurses at a statistically significant level. The

192   other two items perceived among the most important five needs for patient relatives were "To

193   feel that the hospital personnel care about the patient" and "To know specific facts concerning

194   the patient's progress". As for the nurses' perception of needs of patient relatives, the items

195   ranked among the top five except for the two items cited above were "To have questions

196   answered honestly" (second), "To know exactly what is being done to the patient" (fourth), and

197   "To feel accepted by the hospital personnel" (fifth). Six of the ten most important needs ranked

198   by patient relatives were also perceived among the top ten by nurses. Of the top ten needs

199   perceived by relatives six items were related to assurance/proximity and four to information. Of

200   the top ten needs of family members perceived by nurses seven items were related to

201   assurance/proximity, two to comfort/support and one to information.

202   All the items in the last 10 among the needs of patient relatives were related to comfort

203   and support subtitles. Also, there was no statistically significant difference between mean scores

204   of family members and nurses in nine of these items.

205   There were statistically significant differences in 26 items in terms of scores provided by

206   nurses and family members. Among these items, in 24 items that demonstrated significant

207   differences, the mean scores of family members were higher. The mean scores of nurses were

208   found to be higher in "To be alone at any time" and "To be told about chaplain services" items

209   where a significant difference existed between the scores of patient families and nurses (Table

210   2).

211   The mean score on assurance/proximity subscale was ranked first by both family

212   members and nurses. No statistical significance existed between family members' and nurses'

213   perception of support/comfort needs. In terms of assurance/proximity and information, family

214   members' mean perceptions of needs and mean total scale scores were found to be significantly

215   higher than those of nurses

216

217   **Discussion:**

218   This study evaluates the degree of coherence between the perceptions of the ICU nurses

219   who assume the most important responsibility for fulfilling the needs of the patients as well as

220   their families in ICU and the needs of patient relatives. For a more objective evaluation of the

221   family needs in ICU, making predictions and forming possible opinions do not suffice. Instead, it

222   is necessary to demonstrate evidence that will reveal the difference between the perceptions of

223   healthcare professionals and the needs of patient relatives is required.

224   Coherent with the literature, the results of this study showed that there are similarities and

225   differences in terms of family members and nurses' perceived need for patient relatives. (10, 15,

226   16, and 17). Family scores were higher than those of nurses. This result is supported by the

227   literature, which reports that nurses cannot adequately foresee the level of family needs, and

228   shows that the total quality of the services provided to family members of critical care patients is

229   an area that should be improved (18).

230   Assurance and proximity subscales in the CCFNI developed by *Leske* (9), which reflect

231   the need of the family to be physically and emotionally close to their critically ill family

232   members, and have confidence in the patient's future, were rephrased under a single title as

233   assurance/proximity in the Turkish version of the scale (14). Although the mean

234   assurance/proximity subscale of family members was higher than that of nurses, it was ranked as

235   the most important need in both groups. The compassionate and honest attitude of intensive care

236   nurses can play an important role in meeting family members' e assurance and proximity need.

237   (10). Therefore, it is very important that the nurses in our work group be fully aware of the needs

238   of family members in terms of assurance/proximity needs.

239   In many studies, assurance dimension was perceived as the highest priority need for both

240   groups (18, 19). In a literature review study, on the needs of family members, the assurance was

241   found to be the top-ranked need regardless of the geographical region (20). Furthermore, in the

242   same study, the assurance subscale item "To ensure that the patient is being given the best

243   possible care", which is determined as the most important need for North American families, was

244   ranked eleventh in Asian families (20). In our study, this was the item with the highest score both

245   by nurses and family members. This item was ranked among the top five needs by both nurses

246   and family members in comparative studies conducted in the US (16), Belgium (7), Egypt (19),

247   Turkey (11) and Iran (21).

248   Although the mean score of family members was higher, the second most important need

249   dimension reported by both groups was 'information'. In addition, the most basic needs of

250   patient's relatives, such as knowing what was done to the patient, what kind of treatment was

251   applied and why these treatments were performed, and obtaining information about the changes

252   in the patient's condition were not considered as priority by nurses. This finding showed that

253   patients' need for information was not adequately perceived by nurses as described in the

254   literature (7,22). Providing adequate information about the patient's condition, treatment and

255   prognosis also fulfills the needs of families to trust the health system as well as healthcare

256   employees (23). To fulfill patient families', need for information, structured in-depth information

257   tours rather than quick bedside conferences should be made, and nurses should be encouraged to

258   get more actively involved in this process. Considering that this information to be provided to

259   family members may be time consuming, there should be a sufficient number of personnel

260   especially during visiting hours (7).

261   The "support and comfort" dimension of patient relatives' needs was perceived as the

262   least important factor by both nurses and patients as described in the literature (20, 23, 7). In the

263   initial days of emotional distress and continuous search for information, it seems logical that

264   comfort factors have a low priority (7).

265   Considering the fact that the study was performed in single center where the level of

266   education of patient relatives is relatively high, it should be noted that the generalizability of our

267   results to the population in Turkey is limited. However, the present study similar to other studies

268   in different ICUs in Turkey (11,12) in terms of priority needs of the patients. The low number of

269   nurses that participated in the study should be noted as another limitation.

270   Our study results support the evidence that Turkish version of CCFNI is a valid tool that

271   allows evaluation of the family's needs and nurses' perception on these needs (14). However, as

272   highlighted in the literature, considering the nature of the concepts involving these needs, the

273   results need to be expanded and analyzed in depth using qualitative methods. For the nurses to

274   fulfill such needs of the family members, it is quite important to define and assess these needs

275   accurately. The holistic care approach, which focuses on the patient, family, and life

276   environment rather than the disease, has elevated nurses to a privileged position in critical care.

277   In this framework, new strategies such as, flexible visiting hours, improved participation of

278   nurses in 'visiting and "informing" hours and enhancing the quality of information / counseling

279   processes for patient relatives should be addressed. (7,20). However, owing to *staff shortages*

280   *and excessive workloads*, it makes it difficult for nurses to assume this role. For this reason, the

281   health system as well as health institutions should create organizational conditions to support

282   nurses (18).

283

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287   Authors have not disclosed any potential conflicts of interest.

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293   **References**

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Table 1

Sociodemographic Characteristics of Patients and Relatives

1   **Table 1: Sociodemographic Characteristics of Patients and Relatives**

Characteristics	Number (%)
Relative Characteristics	
Gender	
Female	107 (50.2)
Male	106 (49.8)
Age	
18-29	29 (13.6)
30-39	42 (19.7)
40-49	57 (26.8)
50-59	55 (25.8)
60 +	30 (14.1)
Level of Education	
Primary (5 year)	15 (7.0)
Secondary(8 year)	39 (18.3)
High School (12 year)	67 (31.5)
University +	92 (43.2)
Relation with Patient	
Child	125 (58.7)
Spouse	28 (13.1)
Parent	18 (8.5)
Sibling	18 (8.5)
Second-degree relative	24 (11.3)
Patient Characteristics	
Gender	
Female	84 (39.4)
Male	129 (60.6)
Age	
18-34	24 (11.3)
35-49	18 (8.5)
50-64	41 (19.2)
65-79	86 (40.4)
80 +	44 (20.7)
Disease Diagnosis	
Chronic obstructive pulmonary disease	76 (35.7)
Post-op care	40 (18.8)
Polytrauma	30 (14.1)
Cerebrovascular disease	28 (13.1)
Cardiovascular disease	13 (6.1)
Others	26 (12.2)

Table 2

Comparision of The Mean Item Scores of Patient Relatives and Nurses

2 **Table 2. Comparision of The Mean Item Scores of Patient Relatives and Nurses**

Dimensions	Items	Relatives (Rank) Mean±SD	Nurse (Rank) Mean±SD	p
Asurance/Proxymity	To be assured the best care possible is being given to the patient	(1) 3.93±0.26	(1) 3.69±0.46	**<0.001**
Information	To be called at home about changes in the patient's condition	(2) 3.93±0.26	(12)3.35±0.68	**0.000**
Asurance/Proxymity	To be assured it is alright to leave the hospital for a while	(3) 3.93±0.28	(3) 3.52±0.50	**<0.001**
Asurance/Proxymity	To feel that the hospital personnel care about the patient	(4) 3.91±0.29	(6) 3.47±0.58	**<0.001**
Asurance/Proxymity	To know specific facts concerning the patient's progress	(5) 3.89±0.32	(8) 3.46±0.50	**<0.001**
Information	To know exactly what is being done for the patient	(6) 3.86±0.36	(4) 3.48±0.57	**<0.001**
Asurance/Proxymity	To have questions answered honestly	(7) 3.84±0.39	(2) 3.55±0.54	**<0.001**
Asurance/Proxymity	To feel there is hope	(8) 3.83±0.37	(13) 3.34±0.58	**<0.001**
Information	To know how the patient is being treated medically	(9) 3.83±0.41	(11)3.35±0.56	**<0.001**
Information	To know why things were done for patient	(10) 3.83±0.41	(14) 3.34±0.65	**<0.001**
Support/Comfort	To feel accepted by the hospital staff	(11) 3.80±0.44	(5) 3.48± 0.60	**0.001**
Asurance/Proxymity	To receive information about the patient at least once a day	(12) 3.80±0.45	(25) 3.00±0.75	**<0.001**
Information	To be told about transfer plans while they are being made	(13) 3.80±0.45	(22) 3.17±0.65	**<0.001**
Information	To know about types of staff members taking care of the patient	(14) 3.76±0.46	(16) 3.31±0.72	**<0.001**
Asurance/Proxymity	To talk to the doctor every day	(15) 3.75±0.46	(20) 3.20±0.71	**<0.001**
Information	To have a specific person to call at the hospital when unable to visit	(16) 3.75±0.54	(27) 2.96±0.87	**<0.001**
Asurance/Proxymity	To know which staff members could give what type of information	(17) 3.71±0.48	(9) 3.46± 0.57	**0.005**
Information	To talk about the possibility of the patient's death	(18) 3.55±0.59	(17) 3.30±0.54	**0.005**
Support/Comfort	To be told about other people that could help with problems	(19)3.55±0.63	(21) 3.17±0.55	**<0.001**
Asurance/Proxymity	To have directions as to what to do at the	(20) 3.52±0.59	(15) 3.33±0.78	0.111

	bedside			
Asurance/Proxymity	To have explanations of the environment before going into the critical care unit for the first time	(21) 3.52±0.69	(7) 3.47± 0.69	0.671
Support/Comfort	To see the patient frequently	(22) 3.50±0.71	(36) 2.70±0.96	**<0.001**
Information	To have visiting hours started on time	(23) 3.45±0.59	(18) 3.30±0.60	0.087
Support/Comfort	To talk about feelings about what has happened	(24) 3.41±0.73	(10) 3.36±0.56	0.544
Support/ Comfort	To have friends nearby for support	(25) 3.34±0.68	(19) 3.28±0.59	0.553
Support/Comfort	To talk to the same nurse every day	(26) 3.21±0.73	(39) 2.37±0.94	**<0.001**
Support/Comfort	To have another person with you visiting the critical care unit	(27) 3.21±0.84	(29) 2.91±0.68	**0.007**
Support/Comfort	To visit at any time	(28) 3.17±0.82	(40) 2.35±1.01	**<0.001**
Support/Comfort	To have a bathroom near the waiting room	(29) 3.13±0.85	(23) 3.04±0.69	0.421
Support/Comfort	To help with the patient's physical care	(30) 2.99±0.84	(38) 2.65±0.91	**0.016**
Support/Comfort	To have comfortable furniture in the waiting room	(31) 2.92±0.97	(30) 2.87±0.95	0.738
Support/Comfort	To feel it is all right to cry	(32) 2.88±0.88	(26) 2.98±0.69	0.369
Support/Comfort	To have good food available in the hospital	(33) 2.86±0.96	(24) 3.02±0.86	0.279
Support/Comfort	To have a telephone near the waiting room	(34) 2.83±1.01	(33) 2.81±0.99	0.920
Support/Comfort	To be told about someone to help with family problems	(35)2.80±0.93	(31) 2.83±0.75	0.758
Support/Comfort	To have someone be concerned about with your health	(36) 2.78±0.94	(28) 2.94±0.71	0.168
Support/Comfort	To have a place to be alone while in the hospital	(37) 2.78±0.96	(35) 2.74±0.83	0.793
Support/Comfort	To be alone at any time	(38) 2.53±0.85	(34) 2.80±0.81	**0.038**
Support/Comfort	To have a pastor visit	(39) 2.37±1.01	(37) 2.65±0.89	0.066
Support/Comfort	To be told about chaplain services	(40) 2.35±1.02	(32) 2.81±0.85	**0.001**

Table 3

Comparision of Mean Subscale Dimension Scores of Patient Relatives and Nurses

1 Table 3. Comparision of Mean Subscale Dimension Scores of Patient Relatives and
2 Nurses

	Relatives Mean(SD)	Nurse Mean(SD)	P
Support/Comfort	3.03 (0.48)	2.88 (0.55)	0.060
Assurance/Proximity	3.79 (0.21)	3.43 (0.36)	**<0.001**
Information	3.76 (0.24)	3.28 (0.41)	**<0.001**
Total Score	3.40 (0.20)	3.12(0.42)	**<0.001**