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### HASTANELERDE ÇALIŞAN FARKLI MESLEK GRUPLARININ ORGAN BAĞIŞINA İLİŞKİN GÖRÜŞLERİ: KESİTSEL BİR ARAŞTIRMA

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#### Öz

Bu çalışma hastanede çalışan farklı meslek gruplarının organ bağışı ile ilgili düşüncelerini belirlemek amacıyla yapıldı. Araştırmanın evrenini bir hastanede çalışan toplam 887 kişi oluşturdu ve çalışmaya katılmaya gönüllü 519 kişi ile çalışma tamamlandı. Anket, Google formları kullanılarak bir link aracılığıyla kurum çalışanlarının cep telefonlarına gönderilmiştir. Katılımcıların eğitim durumu lisans/lisanüstü olanların %91.3'ünün, meslek grubunda doktorların %94.1'inin, hemşirelerin %85.8'inin, tıbbi sekreterlerin %88.2'sinin organ bağışı hakkında bilgi sahibi oldukları (p=0.001), doktorların %100, hemşirelerin %92.1'i, tıbbi sekreterlerin %95.6'sının organ bağışını dini açıdan uygun gördükleri, öldükten sonra organ bağışı yapılmasını istedikleri (p=0.000), ihtiyaç durumunda başka birinin organını kabul edecekleri ve müslüman olmayan kişiye organ bağışı yapabilecekleri saptandı (p=0.000). Bu sonuçlar doğrultusunda organ bağışı ihtiyacının fazla olduğu ülkemizde, özellikle hastane personellerinin periyodik olarak düzenlenecek hizmet içi eğitimler ile bilinçlendirilmesi, organ bağışına yönlendirilmesi ve sağlık çalışanlarının organ bağışına teşvik konusunda planlamalar yapması önerilmektedir.

Anahtar kelimeler: Organ Bağışı, Hastane Personeli, Beyin Ölümü, Bilgi Düzeyi.

# THE OPINIONS of DIFFERENT OCCUPATIONAL GROUPS WORKING in HOSPITALS ABOUT ORGAN DONATION

#### **Abstract**

The aim of this study was conducted to determine the opinions of different occupational groups working in the hospital regarding organ donation. The population of the study consisted of a total of 887 people working in a hospital: and the study was successfully completed with 519 individuals who were voluntary to participate in the study. The questionnaire was sent to the mobile phones of the employees of the institution via a link using Google forms. Of the participants, 91.3% of those with undergraduate/graduate education and 94.1% of physicians, 85.8% of nurses, and 88.2% of medical secretaries in the occupational groups had knowledge about organ donation (p=0.001), 100% of physicians, 92.1% of nurses and 95.6% of the medical secretaries found organ donation religiously appropriate, they wanted organ donation after death (p=0.000), they would accept someone else's organ in case of need and they could donate organs to a non-Muslim (p=0.000). In line with these results, it is recommended that awareness about organ donation among hospital staff be raised through periodic in-service trainings, they be directed to organ donation, and healthcare professionals make plans to promote organ donation in Turkey, where there is a high demand for organ transplantation.

Keywords: Organ Donation, Hospital Staff, Brain Death, Level of Knowledge

#### 1. INTRODUCTION

Organ donation refers the consent of an individual to use her tissues and organs for the treatment of other people after her medical death, with her own will and without being under anyone's pressure. As per its definition, organ donation encompasses donating either a whole organ or a portion of it by alive donors, as well as donating organs from deceased individuals, i.e., cadavers (1,2). Nowadays, the retrieval of organs is feasible from deceased neonates to deceased individuals aged up to 60 years, while individuals who are 18 years old and older and possess a sound mental state are eligible to donate organs<sup>1</sup>. Organ transplantation from either living or deceased donors is a prominent option for patients suffering from dysfunction in particular organs (3).

The primary objective of organ transplantation is to give individuals a chance for a better quality of life by protecting their fundamental rights to life and bodily integrity. Today, it is known that tissue and organ transplantation is the only treatment modality for many diseases (2). The paramount determinant in the achievement of organ transplantation, a treatment method used to replace a vital organ that has been lost or is incapable of adequately performing its function, lies in the accessibility of the necessary organ. The sole option and solution to make this possible would be a satisfactory level of organ donation (1,2,4). Despite notable advancements in recent years in the fields of technology, pharmaceuticals, and surgical techniques, the primary challenge that persists is the procurement of organs (2). In terms of organ procurement, approximately 61% of transplants in the United States and 82% of transplants in Europe are from cadaver donors. Regarding global rankings, Spain holds the top rank with 49.6 cadaveric donors per million people. Turkey ranks 41st in the world, with six cadaveric donors per million people, and approximately 87% of all transplants in the last ten years have been from living donors. As assessed from international perspective, rates of cadaveric organ transplantation in Turkey are not at the required level. And the greatest expectation in the forthcoming years is to increase rates of organ donation from cadaveric donors, as reported in Europe and the USA (5). However, it is evident that organ scarcity remains a worldwide challenge for organ transplantation (6). Because organ transplants in the world can only meet 10% of the existing needs. Due to the insufficiency in organ supply, the number of patients on the organ waiting list increases every year and patients die while waiting for organs (4,7).

The factors causing the insufficient fulfilment of organ demand include lack of knowledge regarding organ donation, religious beliefs, worries about potential disruption to bodily integrity, and views about potential disrespect toward corpse (8). Other factors include inadequate information acquired from the media regarding organ donation, individuals' attitudes toward organ transplantation, lack of continuity in organ donation and deficiencies in the registration system, perceptions surrounding brain death and the acquisition/confirmation of family consent, and medical impartiality in determining procedures, which have emerged as significant challenges in several countries worldwide. Several related studies conducted in Turkey have reported that individuals do not engage in organ donation, nor do they donate their organs voluntarily, nor do they consider organ donation (4,9). These negative attitudes are explained by the fact that organ donation is affected by cultural practices and religious beliefs. Hence, organ donation campaigns and associated trainings have a substantial effect on increasing rates of organ donation. Healthcare professionals play a crucial role in maintaining these campaigns and altering public perspectives. However, a study reported that despite the willingness of nursing students to donate their organs, their knowledge of organ donation, the process of organ transplantation, and brain death was inadequate (4). However, it is stated that in order to increase organ donation, the education level and awareness of healthcare professionals who provide information on this subject are important. Given the significant impact on the development of sufficient social awareness regarding this matter, it is highly effective to emphasize the significance of organ transplantation in the education of healthcare professionals (10). Therefore, in order to increase organ donation, it is necessary to eliminate the lack of knowledge and rejective attitude and overcome the obstacles related to this issue in all areas (8).

In this regard, there is a need to determine the opinions affecting organ donation in different professional groups that are in contact with patients or their relatives, especially in countries with low organ donation rates such as Turkey. Once these opinions are determined, providing sufficient information about organ donation in order to eliminate negative thoughts and strengthen positive thoughts is one of the most effective ways to raise awareness. For this reason, the aim of this study is to determine the opinions of different occupational groups serving in the hospital regarding organ donation.

#### 2. METHODS

#### 2.1. Study Design

This descriptive and cross-sectional study was conducted to determine the opinions of different occupational groups, working in a hospital in the city center of XXXX, regarding organ donation.

### 2.2. Population and Sample

The population of the study consisted of a total of 887 people employed in a hospital: 80 physicians, 253 nurses, 141 counsellors, 82 porters, 26 security guards, 38 kitchen workers, and 102 housekeepers. It was planned to include the entire population without making sample calculation, and the study was successfully completed with 519 individuals who were voluntary to participate in the study.

#### 2.3. Data Collection Tools

#### **Ouestionnaire**

It is a questionnaire prepared upon the literature review to gather data on the participants' characteristics (11,12). This form includes 28 questions pertaining to age, gender, profession, educational level, marital status, department, tenure in the profession, and organ donation.

#### 2.4. Data Collection

The questionnaire was sent to the mobile phones of the institution's employees through a link using Google Forms. After completing the questionnaire, the participants were instructed to send it back to the researchers through e-mail. A total of 519 people fully responded to the questions.

#### 2.5. Data Analysis

Chi-square test was used to analyze the data obtained with the questionnaire. p<0.05 was considered as significant.

#### 2.6. Ethical Considerations

Before beginning the study, approval from the SANKO University ethics committee, permission from the institution where the study would take place, and consent from the participants included in the study were obtained via Google Forms (Approval no: 2020/05, Date: 03.03.2020).

#### 3. RESULTS

It was found that 32.6% of the participants were between the ages of 24 and 29, 57.2% were male, 53.0% were married, 36.6% were nurses, 39.3% had a high school degree, and 54.1% had a tenure of 0 to 5 years (Table 1).

| Table 1. Distribution of the Partici | pants Based on their Socio- | demographic Characteristics (n=519) |
|--------------------------------------|-----------------------------|-------------------------------------|
|                                      |                             |                                     |

| Characteristics   Characteristics | n   | %    |
|-----------------------------------|-----|------|
| Age (minmax.)                     |     |      |
| 18-23                             | 117 | 22.5 |
| 24-29                             | 169 | 32.6 |
| 30-35                             | 65  | 12.5 |
| 35 and above                      | 168 | 32.4 |
| Gender                            |     |      |
| Female                            | 297 | 57.2 |
| Male                              | 222 | 42.8 |
| Marital Status                    |     |      |
| Married                           | 275 | 53.0 |
| Single                            | 244 | 47.0 |
| Profession                        |     |      |
| Physician                         | 17  | 3.3  |
| Nurse                             | 190 | 36.6 |
| Medical Secretary                 | 68  | 13.1 |
| Technician                        | 105 | 20.2 |
| Administrative/finance staff      | 33  | 6.4  |
| Other                             | 106 | 20.4 |
| Educational Level                 |     |      |
| Primary School                    | 68  | 13.1 |
| High School                       | 204 | 39.3 |
| Associate Degree                  | 98  | 18.9 |
| Bachelor's/Master's degree        | 149 | 28.7 |
| Tenure (Year)                     |     |      |
| 0-5                               | 281 | 54.1 |
| 6-11                              | 121 | 23.3 |
| 12-17                             | 48  | 9.3  |
| 18 and above                      | 69  | 13.3 |
| Total                             | 519 | 100  |

# 3.1. Results Pertaining to the Opinions of Occupational Groups Working in the Hospital on Organ Donation

It was determined that 79.8% of the participants had knowledge on organ donation, 44.9% were informed by healthcare professionals, 81.9% were aware of the institutions involved in organ donation, 89.8% stated that organ donation is appropriate for our religion, 84.6% had not donated their organs, 15.8% had not donated their organs due to familial reasons, and 16.2% had not donated their organs due to their poor health condition. Furthermore, it was found that 72.1% of the participants responded that "the family members of an individual who donates his/her organs and has been diagnosed with brain dead may consent to the harvesting of the donated organs". It was

determined that 67.6% of the participants wanted their relatives to donate their organs after death, 58.2% wanted their relatives to take the intervention for organ donation after brain death, and 27.9% did not want to take the intervention as they were unwilling to assume responsibility for someone else. Moreover, 50.9% of the participants considered that healthcare professionals had insufficient knowledge about organ donation and transplantation; 50.1% of the participants were uncertain about whether or not organs were donated in exchange for financial compensation; and 35.1% were unaware of the possibility of bias in the organ waiting list. It was also found that 91.7% of the participants had no relatives awaiting organs, 80.9% of the participants had no relatives who had ever undergone organ transplantation, 75% of the participants had no relatives who did donate their organs, 89.2% of the participants would accept another person's organ if they needed organ donation, 85.2% of the participants would donate organs to people of the opposite gender, and 75.1% of the participants would donate organs to non-Muslims (Table 2).

Table 2. Distribution of the Perceptions of Hospital Employees on Organ Donation (n=519)

| Yes       414       79.3         No       105       20.3         Sources for knowledge regarding organ donation         Health care professionals       233       44.5         Social media       33       6.4         Television, newspapers or magazines       38       7.         Relatives       7       1.5         Bachelor's degree       103       19.3         Knowing to which institutions the organ is donated         State hospitals       16       3.         State hospitals       8       1.         Private hospitals       8       1.         University Hospitals       58       11.         All       425       81.5         Thinking that organ donation is religiously appropriate       466       89.3         Yes       466       89.3         No       53       10.5         Status of donating organ       49       84.0         Reason for organ donation       45       8.         To save lives       42       8.         Due to their beliefs       -       -         To help people.       7       1.5         For the organ to restore functioning in                                     | Characteristics                                                                                    | n   | %    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----|------|
| No       105       20.3         Sources for knowledge regarding organ donation       3       44.9         Health care professionals       233       44.9         Social media       33       6.4         Television, newspapers or magazines       38       7.1         Relatives       7       1.2         Bachelor's degree       103       19.3         Knowing to which institutions the organ is donated       16       3.         Private hospitals       16       3.         Private hospitals       8       1.3         Provincial directorates of health       12       2.3         University Hospitals       58       11.2         All       425       81.5         Thinking that organ donation is religiously appropriate       466       89.3         Yes       466       89.3       10.2         Status of donating organ       3       10.2         Status of organ donation       42       8.         No       439       84.0         Reason for organ donation       42       8.         Due to their beliefs       -       -         To help people.       7       1.3         For the organ to restore | Knowledge on organ donation                                                                        |     |      |
| Sources for knowledge regarding organ donation         Health care professionals       233       44.5         Social media       33       6.6         Television, newspapers or magazines       38       7.5         Relatives       7       1.5         Bachelor's degree       103       19.3         Knowing to which institutions the organ is donated       State hospitals       16       3.         Private hospitals       8       1.5         Provincial directorates of health       12       2.5         University Hospitals       58       11.5         All       425       81.5         Thinking that organ donation is religiously appropriate       Yes       466       89.3         No       53       10.5         Status of donating organ       Yes       80       15.5         No       439       84.6         Reason for organ donation       To save lives       42       8.         Due to their beliefs       -       -         To help people.       7       1.5         For the organ to restore functioning in other people       9       1.5                                                   | Yes                                                                                                | 414 | 79.8 |
| Health care professionals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No                                                                                                 | 105 | 20.2 |
| Social media       33       6.         Television, newspapers or magazines       38       7.         Relatives       7       1.         Bachelor's degree       103       19.3         Knowing to which institutions the organ is donated         State hospitals       16       3.         Private hospitals       8       1.         Provincial directorates of health       12       2.         University Hospitals       58       11.         All       425       81.         Thinking that organ donation is religiously appropriate         Yes       466       89.3         No       53       10.         Status of donating organ         Yes       80       15.         No       439       84.         Reason for organ donation         To save lives       42       8.         Due to their beliefs       -       -         To help people.       7       1.         For the organ to restore functioning in other people       9       1.                                                                                                                                                                     | Sources for knowledge regarding organ donation                                                     |     |      |
| Television, newspapers or magazines         38         7.           Relatives         7         1.           Bachelor's degree         103         19.3           Knowing to which institutions the organ is donated         State hospitals         16         3.           Private hospitals         8         1.           Provincial directorates of health         12         2.           University Hospitals         58         11.           All         425         81.           Thinking that organ donation is religiously appropriate         Yes         466         89.           No         53         10.           Status of donating organ         Yes         80         15.           No         439         84.           Reason for organ donation         To save lives         42         8.           Due to their beliefs         -         -           To help people.         7         1.           For the organ to restore functioning in other people         9         1.                                                                                                               | Health care professionals                                                                          | 233 | 44.9 |
| Relatives       7       1.5         Bachelor's degree       103       19.3         Knowing to which institutions the organ is donated         State hospitals       16       3.         Private hospitals       8       1.5         Provincial directorates of health       12       2.5         University Hospitals       58       11.5         All       425       81.5         Thinking that organ donation is religiously appropriate       466       89.3         Yes       466       89.3         No       53       10.2         Status of donating organ       40       8.0         Yes       80       15.4         No       439       84.6         Reason for organ donation       42       8.         Due to their beliefs       -       -         To help people.       7       1.5         For the organ to restore functioning in other people       9       1.5                                                                                                                                                                                                                                              | Social media                                                                                       | 33  | 6.4  |
| Bachelor's degree       103       19.3         Knowing to which institutions the organ is donated       8         State hospitals       16       3.         Private hospitals       8       1.3         Provincial directorates of health       12       2.3         University Hospitals       58       11.3         All       425       81.5         Thinking that organ donation is religiously appropriate         Yes       466       89.3         No       53       10.3         Status of donating organ         Yes       80       15.4         No       439       84.6         Reason for organ donation         To save lives       42       8.         Due to their beliefs       -       -         To help people.       7       1.         For the organ to restore functioning in other people       9       1.                                                                                                                                                                                                                                                                                              | Television, newspapers or magazines                                                                | 38  | 7.3  |
| Knowing to which institutions the organ is donated         State hospitals       16       3.         Private hospitals       8       1.         Provincial directorates of health       12       2.         University Hospitals       58       11.         All       425       81.         Thinking that organ donation is religiously appropriate       466       89.         Yes       466       89.         No       53       10.         Status of donating organ       439       84.         No       439       84.         Reason for organ donation       42       8.         Due to their beliefs       -       -         To help people.       7       1.         For the organ to restore functioning in other people       9       1.                                                                                                                                                                                                                                                                                                                                                                          | Relatives                                                                                          | 7   | 1.3  |
| State hospitals       16       3.         Private hospitals       8       1.         Provincial directorates of health       12       2.         University Hospitals       58       11.         All       425       81.         Thinking that organ donation is religiously appropriate         Yes       466       89.         No       53       10.         Status of donating organ         Yes       80       15.         No       439       84.         Reason for organ donation         To save lives       42       8.         Due to their beliefs       -       -         To help people.       7       1.         For the organ to restore functioning in other people       9       1.                                                                                                                                                                                                                                                                                                                                                                                                                        | Bachelor's degree                                                                                  | 103 | 19.8 |
| Private hospitals       8       1.2         Provincial directorates of health       12       2.3         University Hospitals       58       11.3         All       425       81.5         Thinking that organ donation is religiously appropriate         Yes       466       89.8         No       53       10.3         Status of donating organ       80       15.4         No       439       84.6         Reason for organ donation       42       8.5         Due to their beliefs       -       -         To help people.       7       1.5         For the organ to restore functioning in other people       9       1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Knowing to which institutions the organ is donated                                                 |     |      |
| Provincial directorates of health       12       2.3         University Hospitals       58       11.3         All       425       81.9         Thinking that organ donation is religiously appropriate         Yes       466       89.3         No       53       10.3         Status of donating organ         Yes       80       15.4         No       439       84.6         Reason for organ donation         To save lives       42       8.5         Due to their beliefs       -       -         To help people.       7       1.3         For the organ to restore functioning in other people       9       1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | State hospitals                                                                                    | 16  | 3.1  |
| University Hospitals       58       11.2         All       425       81.9         Thinking that organ donation is religiously appropriate         Yes       466       89.8         No       53       10.2         Status of donating organ         Yes       80       15.4         No       439       84.6         Reason for organ donation         To save lives       42       8.5         Due to their beliefs       -       -         To help people.       7       1.3         For the organ to restore functioning in other people       9       1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Private hospitals                                                                                  | 8   | 1.5  |
| All 425 81.9  Thinking that organ donation is religiously appropriate  Yes 466 89.8  No 53 10.3  Status of donating organ  Yes 80 15.4  No 439 84.6  Reason for organ donation  To save lives 42 8.5  Due to their beliefs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Provincial directorates of health                                                                  | 12  | 2.3  |
| Thinking that organ donation is religiously appropriate  Yes 466 89.8 No 53 10.2  Status of donating organ  Yes 80 15.4 No 439 84.6  Reason for organ donation  To save lives 42 8.7 Due to their beliefs To help people. 7 1.3 For the organ to restore functioning in other people 9 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | University Hospitals                                                                               | 58  | 11.2 |
| Yes       466       89.3         No       53       10.2         Status of donating organ       80       15.4         Yes       80       15.4         No       439       84.6         Reason for organ donation       42       8.         Due to their beliefs       -       -         To help people.       7       1.3         For the organ to restore functioning in other people       9       1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | All                                                                                                | 425 | 81.9 |
| No Status of donating organ  Yes 80 15.4 No 439 84.6  Reason for organ donation  To save lives 42 8.5 Due to their beliefs To help people. 7 1.5 For the organ to restore functioning in other people 9 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Thinking that organ donation is religiously appropriate                                            |     |      |
| Status of donating organ  Yes 80 15.4  No 439 84.6  Reason for organ donation  To save lives 42 8.  Due to their beliefs  To help people. 7 1.5  For the organ to restore functioning in other people 9 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                                                                                | 466 | 89.8 |
| Yes 80 15.4 No 439 84.6 Reason for organ donation  To save lives 42 8.5 Due to their beliefs To help people. 7 1.5 For the organ to restore functioning in other people 9 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                 | 53  | 10.2 |
| No 439 84.6  Reason for organ donation  To save lives 42 8.7  Due to their beliefs  To help people. 7 1.5  For the organ to restore functioning in other people 9 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Status of donating organ                                                                           |     |      |
| Reason for organ donation  To save lives 42 8.  Due to their beliefs  To help people. 7 1.3  For the organ to restore functioning in other people 9 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                                                                                | 80  | 15.4 |
| To save lives 42 8.1  Due to their beliefs  To help people. 7 1.2  For the organ to restore functioning in other people 9 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                 | 439 | 84.6 |
| Due to their beliefs To help people. 7 1.3  For the organ to restore functioning in other people 9 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Reason for organ donation                                                                          |     |      |
| To help people. 7 1.3  For the organ to restore functioning in other people 9 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | To save lives                                                                                      | 42  | 8.1  |
| For the organ to restore functioning in other people 9 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Due to their beliefs                                                                               | -   | -    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | To help people.                                                                                    | 7   | 1.3  |
| Thinking of the possibility that he or his loved ones might need an organ transplant in the future 22 4.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | For the organ to restore functioning in other people                                               | 9   | 1.7  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Thinking of the possibility that he or his loved ones might need an organ transplant in the future | 22  | 4.2  |

| Other                                                                                             | -   | -    |
|---------------------------------------------------------------------------------------------------|-----|------|
| Reason for refusing organ donation                                                                |     |      |
| Due to their thought that it is not religiously allowable                                         | 29  | 5.6  |
| Due to the fact that bodily integrity will be disrupted.                                          | 66  | 12.7 |
| Due to familial reasons                                                                           | 82  | 15.8 |
| Due to the fact that they were not knowledgeable with where to apply                              | 34  | 6.6  |
| Due to their poor medical condition                                                               | 84  | 16.2 |
| Due to concerns about the misuse of their organs after death.                                     | 51  | 9.8  |
| Due to the fact that they were not knowledgeable with the recipients of the organs.               | 21  | 4.0  |
| Due to the fact that they did not believe that organ transplant centers are capable of delivering | 18  | 3.5  |
| satisfactory service                                                                              |     |      |
| Other                                                                                             | 51  | 9.8  |
| Opinions on the organ donors and the persons pronounced brain dead                                |     |      |
| The medical support is sustainable.                                                               | 108 | 20.8 |
| The patient can be left untreated without medical support.                                        | 23  | 4.4  |
| Patient care can be sustained at home.                                                            | 14  | 2.7  |
| Relatives may consent for the retrieval of the organs donated by the deceased person.             | 374 | 72.1 |
| The willingness of family members to donate organs                                                |     |      |
| Yes                                                                                               | 351 | 67.6 |
| No                                                                                                | 168 | 32.4 |
| Making organ donation initiative for a relative who has been pronounced brain dead                |     |      |
| Yes                                                                                               | 302 | 58.2 |
| No                                                                                                | 217 | 41.8 |
| Reason for no intervention (n=217)                                                                |     |      |
| Due to unwillingness to assume responsibility for someone else                                    | 145 | 27.9 |
| Due to the fact that they do not think organ donation is right                                    | 11  | 2.1  |
| Due to the fact that they believe that they would be misunderstood                                | 21  | 4.0  |
| Due to the fact that they believe that healthcare workers would be more effective thereof         | 24  | 4.6  |
| Other                                                                                             | 16  | 3.1  |
| Thinking whether or not their knowledge about organ donation and transplantation is               |     |      |
| sufficient                                                                                        |     |      |
| Yes                                                                                               | 255 | 49.1 |
| No                                                                                                | 264 | 50.9 |
| Reason for considering that they lack sufficient knowledge (n=264)                                |     |      |
| Lack of adequate vocational training on this subject                                              | 95  | 18.3 |
| Lack of adequate in-service training                                                              | 106 | 20.4 |
| Lack of knowledge on where to get information                                                     | 40  | 7.7  |
| Failure of religious clergy to sufficiently inform on this subject                                | 21  | 4.0  |
| Other                                                                                             | 2   | 0.4  |
| Thinking that organs are donated in return for financial compensation                             |     |      |

#### GÖBEKLİTEPE International Journal Of Health Sciences Yes 83 16.0 No 260 50.1 I do not know 176 33.9 Thinking that there is bias in the organ waiting list 122 23.5 No 182 35.1 I do not know 215 41.4 Family or immediate circle who await organ transplantation 43 8.3 No 476 91.7 Family or immediate circle who had organ transplantation previously Yes 99 19.1 No 420 80.9 Family or immediate circle who had previously donated organ Yes 130 25.0 No 389 75.0 Accepting someone else's organ if they need organ donation Yes 89.2 463 No 56 10.8 Considering to donate organs to a person of the opposite gender Yes 442 85.2 No 77 14.8 Considering to donate organs to non-Muslims Yes 390 75.1

# 3.2. Results Pertaining to the Responses of the Occupational Groups Employed in the Hospital on Organ Donation According to Gender

129

519

24.9

100

No

**Total** 

It was determined that 84.8% of the female participants and 73% of the male participants had knowledge on organ donation ( $X^2=11.102$ , p=0.001), 22% of the female participants and 21.6% of the male participants did not donate their organs due to familial reasons and their poor medical conditions, respectively ( $X^2=24.705$ ,  $\mathbf{p}=0.002$ ); 77.8% of the female participants and 54.1% of their male counterparts were willing to donate their organs after their death ( $X^2=32.661$ ,  $\mathbf{p}=0.000$ ); 93.9% of the female participants and 82.9% of their male counterparts would accept someone else's organ if necessary ( $X^2=16.134$ ,  $\mathbf{p}=0.000$ ); 82.5% of the female ones and 65.3% of the male ones stated that they would donate organs to a non-Muslim ( $X^2=20.067$ ,  $\mathbf{p}=0.000$ ) (Table 3).

Table 3. Distribution of Responses by the Participants on Organ Donation According to Gender

| Questions                                                       | Women (%) | Men n(%)  | Statistical            |
|-----------------------------------------------------------------|-----------|-----------|------------------------|
|                                                                 |           |           | Value                  |
| Having knowledge on organ donation                              |           |           |                        |
| Yes                                                             | 252(84.8) | 162(73.0) | X <sup>2</sup> =11.102 |
| No                                                              | 45(15.2)  | 60(27.0)  | p=0.001                |
| Thinking that organ donation is religiously appropriate         |           |           |                        |
| Yes                                                             | 271(91.2) | 195(87.8) | X <sup>2</sup> =1.609  |
| No                                                              | 26(8.8)   | 27812.29  | p=0.205                |
| Status of donating organ                                        |           |           |                        |
| Yes                                                             | 49(16.5)  | 31(14.0)  | X <sup>2</sup> =0.626  |
| No                                                              | 248(83.5) | 191(86.0) | p=0.429                |
| Reason for organ donation                                       |           |           |                        |
| To save lives                                                   | 25(51.0)  | 17(54.8)  |                        |
| To help people.                                                 | 3(6.1)    | 4(2.9)    |                        |
| For the organs to restore functioning in other people           | 6(12.2)   | 3(9.7)    | $X^2=1.647$            |
| For the future needs of themselves and their relatives          | 15(30.6)  | 7(22.6)   | p=0.680                |
| Reason for refusing organ donation                              |           |           |                        |
| Due to their thought that it is not religiously allowable       | 11(4.5)   | 18(9.5)   |                        |
| Due to the fact that bodily integrity will be disrupted.        | 32(13.0)  | 34(17.9)  |                        |
| Due to familial reasons                                         | 54(22.0)  | 28(14.7)  |                        |
| Due to the fact that they were not knowledgeable with where to  | 24(9.8)   | 10(5.3)   | $X^2=24.705$           |
| apply                                                           |           |           |                        |
| Due to their poor medical condition                             | 43(17.5)  | 41(21.6)  |                        |
| Due to concerns about the misuse of their organs                | 34(13.8)  | 17(8.9)   | p=0.002                |
| Due to the fact that they were not knowledgeable with the       | 12(4.9)   | 9(4.7)    |                        |
| recipients of                                                   |           |           |                        |
| the organs.                                                     |           |           |                        |
| Due to the fact that they did not believe that organ transplant | 15(6.1)   | 3(1.6)    |                        |
| centers are capable of delivering satisfactory service          |           |           |                        |
| Other                                                           | 21(8.5)   | 30(15.8)  |                        |
| Willingness of organ donation after death                       |           |           |                        |
| Yes                                                             | 231(77.8) | 120(54.1) | $X^2=32.661$           |
| No                                                              | 66(22.2)  | 102(45.9) | p=0.000                |
| Family or immediate circle who await organ transplantation      |           |           |                        |
| Yes                                                             | 25(8.4)   | 18(8.1)   | X <sup>2</sup> =0.016  |
| No                                                              | 272(91.6) | 204(91.9) | p=0.899                |
| Family or immediate circle who had previously donated           |           |           |                        |
| organ                                                           |           |           |                        |
| Yes                                                             | 79(26.6)  | 51(23.0)  | $X^2=0.890$            |

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|------------------------------------------------------|-----------|-----------|------------------------|--|--|--|
| No                                                   | 218(73.4) | 171(77.0) | p=0.346                |  |  |  |
| Accepting someone else's organ in case of need       |           |           |                        |  |  |  |
| Yes                                                  | 279(93.9) | 184(82.9) | $X^2=16.134$           |  |  |  |
| No                                                   | 18(6.1)   | 38(17.1)  | p=0.000                |  |  |  |
| Donating organs to non-Muslims                       |           |           |                        |  |  |  |
| Yes                                                  | 245(82.5) | 145(65.3) | X <sup>2</sup> =20.067 |  |  |  |
| No                                                   | 52(17.5)  | 77(34.7)  | p=0.000                |  |  |  |

X<sup>2</sup>= Chi-Square, significant at the level 0.05

# 3.3. Results Pertaining to the Responses of the Participants to Organ Donation According to Their Profession

It was determined that 94.1% of doctors, 85.8% of nurses, 88.2% of medical secretaries, 72.4% of technicians, 75.8% of administrative/finance staff member and 69.8% of other employees had knowledge on organ donation ( $X^2=19.850$ , p=0.001), 22.2% of nurses did not donate organs due to familial reasons, 24.2% of technicians, 22.2% of medical secretaries, and 27.6% of administrative/finance staff members could not donate organs due their "health problems" ( $X^2=0.000$ , p=0.000). 57.6% of the administrative staff members were unwilling to donate their organs after death ( $X^2=48.834$ , p=0.000), 100% of the physicians would accept someone else's organs after death if necessary ( $X^2=34.193$ , p=0.000) and 45.5% of the administrative/finance staff members were unwilling to donate organs to non-Muslims ( $X^2=54,142$ , p=0.000) (Table 4).

Table 4. Distribution of Responses by the Participants on Organ Donation According to Their Profession

|                                               | Yes               | No        | Statistical            |
|-----------------------------------------------|-------------------|-----------|------------------------|
|                                               | n (%)             | n (%)     | Value                  |
| Knowledge on organ donation according to J    | professional type |           |                        |
| Doctor                                        | 16(94.1)          | 1(5.9)    |                        |
| Nurse                                         | 163(85.8)         | 27(14.2)  | $X^2=19.850$           |
| Medical Secretary                             | 60(88.2)          | 8(11.8)   | p=0.001                |
| Technician                                    | 76(72.4)          | 29(27.6)  |                        |
| Administrative/finance staff member           | 25(75.8)          | 8(24.2)   |                        |
| Other                                         |                   |           |                        |
|                                               | 74(69.8)          | 32(30.2)  |                        |
| Thinking that organ donation is religiously a | ppropriate        |           |                        |
| Doctor                                        | 17(100)           | -(0)      | X <sup>2</sup> =10.737 |
| Nurse                                         | 175(92.1)         | 15(7.9)   | p=0.057                |
| Medical Secretary                             | 65(95.6)          | 3(4.4)    |                        |
| Technician                                    | 91(86.7)          | 14(13.3)  |                        |
| Administrative/finance staff member           | 27(81.8)          | 6(18.2)   |                        |
| Other                                         | 91(85.8)          | 15(14.2)  |                        |
| Status of donating organ                      |                   |           |                        |
| Doctor                                        | 7(41.2)           | 10(58.8)  | $X^2=12.582$           |
| Nurse                                         | 32(16.8)          | 158(83.2) | p=0.028                |

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| - 9                                                       |             |             |                 |              |                |          |             |
|-----------------------------------------------------------|-------------|-------------|-----------------|--------------|----------------|----------|-------------|
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| Medical Secretary                                         |             |             | 13(19.1)        |              | 55(80.9)       |          |             |
| Technician                                                |             |             | 12(11.2)        |              | 93(88.6)       |          |             |
| Administrative/finance staff mem                          | har         |             | 4(12.1)         |              | 29(87.9)       |          |             |
| Other                                                     | ber         |             | 12(11.3)        |              | 94(88.7)       |          |             |
| Reason for organ donation                                 |             |             | 12(11.3)        |              | 94(88.7)       |          |             |
| - Reason for organ donation                               | Doctor      | Nurse       | Medical         | Technician   | Administrative | Other    |             |
|                                                           | Doctor      | ruise       | Secretary       | recimeran    | Staff member   | Other    |             |
| To save lives                                             | 3(42.9)     | 15(46.9)    | 8(61.5)         | 6(50.0)      | 2(50.0)        | 8(66.7)  |             |
| To help people.                                           | 2(28.6)     | 1(3.1)      | -(0)            | 3(25.0)      | -(0)           | 1(8.3)   | $X^2=21.11$ |
| Survival of organs in someone                             | 2(28.6)     | 3(9.4)      | -(0)            | 1(8.3)       | 2(50.0)        | 1(8.3)   |             |
| else                                                      | , ,         | , ,         | ` ´             |              | . ,            | , ,      |             |
| For the future                                            | -(0)        | 13(40.6)    | 5(38.5)         | 2(16.7)      | -(0)           | 2(16.7)  | p=0.049     |
| Other                                                     | -(0)        | -(0)        | -(0)            | -(0)         | -(0)           | -(0)     | -           |
| Reason for refusing organ dona                            |             | • •         | ` ´             | . ,          | . ,            |          |             |
|                                                           | Doctor      | Nurse       | Medical         | Technician   | Administrative | Other    |             |
|                                                           |             |             | Secretary       |              | staff member   |          |             |
| Due to their thought that it is not religiously allowable | -(0)        | 4(2.5)      | 1(1.9)          | 10(11.0)     | 4(13.8)        | 10(10.6) |             |
| Due to the fact that bodily                               | 1(10.0)     | 23(14.6)    | 7(13.0)         | 13(14.3)     | 5(17.2)        | 17(18.1) | $X^2=0.000$ |
| integrity will be disrupted.                              | 1(10.0)     | 23(14.0)    | 7(13.0)         | 13(14.3)     | 3(17.2)        | 17(10.1) | p=0.000     |
| Due to familial reasons                                   | 1(10.0)     | 35(22.2)    | 8(14.8)         | 20(22.0)     | -(0)           | 18(19.1) | р олоо      |
| Due to the fact that they were not                        | -(0)        | 18(11.4)    | 3(5.6)          | 7(7.7)       | 1(3.4)         | 5(5.3)   |             |
| knowledgeable with where to                               | (0)         | 10(11.1)    | 3(3.0)          | ,(,.,)       | 1(3.1)         | 3(3.3)   |             |
| apply                                                     |             |             |                 |              |                |          |             |
| Due to their poor medical                                 | -(0)        | 26(16.5)    | 12(22.2)        | 22(24.2)     | 8(27.6)        | 16(17.0) |             |
| conditions                                                | - (- 0 o)   | 10/12 0     | <b>-</b> (10.0) | - ()         | c (2 0 =)      | 10/10/0  |             |
| Due to concerns about the                                 | 2(20.0)     | 19(12.0)    | 7(13.0)         | 7(7.7)       | 6(20.7)        | 10(10.6) |             |
| misuse of their organs                                    | (0)         | 0(5.1)      | 2(5.6)          | 2(2.2)       | (0)            | 7(7.4)   |             |
| Due to the fact that they were not                        | -(0)        | 8(5.1)      | 3(5.6)          | 3(3.3)       | -(0)           | 7(7.4)   |             |
| knowledgeable with the                                    |             |             |                 |              |                |          |             |
| recipients of the organs.                                 |             |             |                 |              |                |          |             |
| Due to the fact that they did not                         | 1/10 0)     | 0(5.7)      | 5(0.2)          | 2(2.2)       | (0)            | 1/1 1)   |             |
| believe that organ transplant                             | 1(10.0)     | 9(5.7)      | 5(9.3)          | 2(2.2)       | -(0)           | 1(1.1)   |             |
| centers are capable of delivering                         |             |             |                 |              |                |          |             |
| satisfactory service                                      | E(E0.0)     | 17/10 1     | 0(14.0)         | 7/7 7        | E(17.0)        | 10/10 (  |             |
| Other                                                     | 5(50.0)     | 16(10.1)    | 8(14.8)         | 7(7.7)       | 5(17.2)        | 10(10.6) |             |
| Willingness of organ donation a                           |             | · ( 10/)    |                 | TAT / /A     | <b>(</b> )     |          |             |
| Destar                                                    |             | s(n/%)      |                 | No (n/%      |                |          |             |
| Doctor                                                    | 130         | (76.5)      |                 | 4(23.5       | )              |          |             |

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Nurse

150(78.9)

40(21.1)

 $X^2 = 48.834$ 

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|----------------------------------------|--------------------------|--------------------|----------------|
| Medical Secretary                      | 58(85.3)                 | 10(14.7)           | p=0.000        |
| Technician                             | 63(60.0)                 | 42(40.0)           | P *****        |
| Administrative/finance                 | 14(42.4)                 | 19(57.6)           |                |
| staff members                          | - (()                    | ->(-1.0)           |                |
| Other                                  | 53(50.0)                 | 53(50.0)           |                |
| Family or immediate circle who await   |                          | ( )                |                |
| Doctor                                 | 2(11.8)                  | 15(88.2)           |                |
| Nurse                                  | 19(10.0)                 | 171(90.0)          | $X^2=5.419$    |
| Medical Secretary                      | 3(4.4)                   | 65(95.6)           | p=0.367        |
| Technician                             | 8(7.6)                   | 97(92.4)           |                |
| Administrative/finance                 | 5(15.2)                  | 28(84.8)           |                |
| staff members                          |                          |                    |                |
| Other                                  | 6(5.7)                   | 100(94.3)          |                |
| Family or immediate circle who had p   | reviously donated organ  |                    |                |
| Doctor                                 | 4(23.5)                  | 13(76.5)           |                |
| Nurse                                  | 48(25.3)                 | 142(74.7)          | $X^2=3.319$    |
| Medical Secretary                      | 19(27.9)                 | 49(72.1)           | p=0.651        |
| Technician                             | 31(29.5)                 | 74(70.5)           |                |
| Administrative/finance                 | 6(18.2)                  | 27(81.8)           |                |
| staff members                          |                          |                    |                |
| Other                                  | 22(20.8)                 | 84(79.29           |                |
| Accepting someone else's organ in case | e of need                |                    |                |
| Doctor                                 | 17(100)                  | -(0)               |                |
| Nurse                                  | 182(95.8)                | 8(4.2)             | $X^2=34.193$   |
| Medical Secretary                      | 66(97.1)                 | 2(2.9)             | p=0.000        |
| Technician                             | 82(78.1)                 | 23(21.9)           |                |
| Administrative/finance                 | 26(78.8)                 | 7(21.2)            |                |
| staff members                          |                          |                    |                |
| Other                                  | 90(84.9)                 | 16(15.1)           |                |
| Donating organs to non-Muslims         |                          |                    |                |
| Doctor                                 | 17(100)                  | -(0)               |                |
| Nurse                                  | 165(86.8)                | 25(13.2)           |                |
| Medical Secretary                      | 60(88.2)                 | 8(11.8)            | $X^2 = 54.142$ |
| Technician                             | 66(62.9)                 | 39(37.1)           | p=0.000        |
| Administrative/finance staff members   | 18(54.5)                 | 15(45.5)           |                |
| Other                                  | 64(60.4)                 | 42(39.6)           |                |

X<sup>2</sup>= Chi-Square, significant at the level 0.05

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# 3.4. Results Pertaining to the Responses of the Participants to Organ Donation According to Their Educational Level

It was found that 91.3% of the participants with bachelor's/ postgraduate degrees had knowledge about organ donation ( $X^2=20.731$ , p=0.000), 78.6% of those with associate's degree were willing to donate their organs after death ( $X^2=24.987$  p=0.000), 94.6% of those with bachelor's/ postgraduate degrees stated that they would accept someone else's organs if they needed them, and 87.89% of those with associate's degrees stated that they would donate organs to non-Muslims (<u>Table</u> 5).

Table 5. Distribution of Responses by the Participants on Organ Donation According to Their Educational Level

|                                                           | Yes         |           | No          |               | Statistical            |
|-----------------------------------------------------------|-------------|-----------|-------------|---------------|------------------------|
|                                                           | n( %)       |           | n(%)        |               | Value                  |
| Having knowledge on organ donation                        |             |           |             |               |                        |
| Primary School                                            | 46(67.6)    |           | 22(32.4)    |               |                        |
| High School                                               | 154(75.5)   |           | 50(24.5)    |               | X <sup>2</sup> =20.731 |
| Associate Degree                                          | 78(79.6)    |           | 20(20.4)    |               | p=0.000                |
| Bachelor's/ postgraduate degree                           | 136(91.3)   |           | 13(8.7)     |               |                        |
| Thinking that organ donation is religiously               | appropriate | •         |             |               |                        |
| Primary School                                            | 62(91.2)    |           | 6(8.8)      |               | $X^2=3.362$            |
| High School                                               | 178(87.3)   |           | 26(12.7)    |               | p=0.339                |
| Associate Degree                                          | 92(93.9)    |           | 6(6.1)      |               |                        |
| Bachelor's/postgraduate degree                            | 134(89.9)   |           | 15(10.1)    |               |                        |
| Status of donating organ                                  |             |           |             |               |                        |
| Primary School                                            | 7(10.3)     |           | 61(89.7)    |               | X <sup>2</sup> =3.320  |
| High School                                               | 30(14.7)    |           | 174(85.3)   |               | p=0.345                |
| Associate Degree                                          | 20(20.4)    |           | 78(79.6)    |               |                        |
| Bachelor's/postgraduate degree                            | 23(15.4)    |           | 126(84.6)   |               |                        |
| Reason for organ donation                                 | Primar      | High      | Associate's | Bachelor's    |                        |
|                                                           | School      | School    | Degree      | Degree        |                        |
| To save lives                                             | 2(28.6)     | 18(60.0)  | 9(45.0)     | 13(56.5)      |                        |
| To help people                                            | 3(42.9)     | 1(3.3)    | 1(5.0)      | 2(8.7)        |                        |
| Survival of organs in someone else                        | 1(14.3)     | 3(10.0)   | 2(10.0)     | 3(13.0)       | $X^2=10.195$           |
| For the future                                            | 1(14.3)     | 8(26.7)   | 8(40.0)     | 5(21.7)       | p=0.281                |
| Other                                                     | -(0)        | -(0)      | -(0)        | -(0)          |                        |
| Reason for refusing organ donation                        | Primary     | High      | Associate   | 's Bachelor's |                        |
|                                                           | School      | School    | Degree      | Degree        |                        |
| Due to their thought that it is not religiously allowable | 5(8.3)      | 18(10.3)  | 1(1.3)      | 5(4.0)        | X <sup>2</sup> =34.898 |
| Due to the fact that bodily integrity will be disrupted.  | 11(18.3)    | 21(12.1)  | 16(21.1)    | 18(14.3)      | p=0.070                |
| Due to familial reasons                                   | 14(23.3)    | 32(18.4)1 | 11(14.5)    | 25(19.8)      |                        |

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| Due to the fact that they were not knowledgeable with where to apply                                                   | 5(8.3)       | 5(8.6)   | 7(9.2)    | 7(5.6)   |                |
|------------------------------------------------------------------------------------------------------------------------|--------------|----------|-----------|----------|----------------|
| Due to their poor medical condition                                                                                    | 15(25.0)     | 37(21.3) | 10(13.2)  | 22(17.5) |                |
| Due to concerns about the misuse of their organs                                                                       | 3(5.0)       | 19(10.9) | 13(17.1)  | 16(12.7) |                |
| Due to the fact that they were not knowledgeable with the recipients of the organs.                                    | 4(6.7)       | 10(5.7)  | 2(2.6)    | 5(4.0)   |                |
| Due to the fact that they did not believe that organ transplant centers are capable of delivering satisfactory service | -(0)         | 5(2.9)   | 4(5.3)    | 9(7.1)   |                |
| Other                                                                                                                  | 3(5.0)       | 17(9.8)  | 12(15.8)  | 19(15.1) |                |
| Willingness of organ donation after death                                                                              |              |          |           |          |                |
|                                                                                                                        | Yes          |          | No        |          |                |
| Primary School                                                                                                         | 34(50.0)     |          | 34(50.0)  |          |                |
| High School                                                                                                            | 125(61.3)    |          | 79(38.7)  |          | $X^2 = 24.987$ |
| Associate Degree                                                                                                       | 77(78.6)     |          | 21(21.4)  |          | p=0.000        |
| Bachelor's/ postgraduate degree                                                                                        | 115(77.2)    |          | 34(22.8)  |          |                |
| Family or immediate circle who await orga                                                                              | an transplan | tation   |           |          |                |
| Primary School                                                                                                         | 6(8.8)       |          | 62(91.2)  |          |                |
| High School                                                                                                            | 16(7.8)      |          | 188(92.2) |          | $X^2=0.193$    |
| Associate Degree                                                                                                       | 9(9.2)       |          | 89(90.8)  |          | p=0.979        |
| Bachelor's/postgraduate degree                                                                                         | 12(8.1)      |          | 137(91.9) |          |                |
| Family or immediate circle who had previous                                                                            | ously donate | d organ  |           |          |                |
| Primary School                                                                                                         | 11(16.2)     |          | 57(83.8)  |          |                |
| High School                                                                                                            | 45(22.1)     |          | 159(77.9) |          | $X^2=8.189$    |
| Associate Degree                                                                                                       | 33(33.7)     |          | 65(66.3)  |          | p=0.042        |
| Bachelor's/postgraduate degree                                                                                         | 41(27.5)     |          | 108(72.5) |          |                |
| Accepting someone else's organ in case of                                                                              | need         |          |           |          |                |
| Primary School                                                                                                         | 57(83.8)     |          | 11(16.2)  |          |                |
| High School                                                                                                            | 173(84.8)    |          | 31(15.2)  |          | $X^2=12.931$   |
| Associate Degree                                                                                                       | 92(93.9)     |          | 6(6.1)    |          | p=0.005        |
| Bachelor's/postgraduate degree                                                                                         | 141(94.6)    |          | 8(5.4)    |          |                |
| Donating organs to non-Muslims                                                                                         |              |          |           |          |                |
| Primary School                                                                                                         | 45(66.2)     |          | 23(33.8)  |          |                |
| High School                                                                                                            | 130(63.7)    |          | 74(36.3)  |          | $X^2=35.941$   |
| Associate Degree                                                                                                       | 86(87.89)    |          | 12(12.2)  |          | p=0.000        |
| Bachelor's/postgraduate degree                                                                                         | 129(86.6)    |          | 20(13.4)  |          |                |
| X <sup>2</sup> = Chi-Square, significant at the level 0.05                                                             |              |          |           |          |                |

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#### 4. DISCUSSION

The scarcity of cadaveric donors for organ transplantation is still a major obstacle even though organ donation is recognized as a crucial treatment option for patients on waiting lists (6). Hence, it is imperative to raise public awareness regarding organ transplantation and conduct studies on this topic in Turkey, where the number of patients waiting for organs is increasing day by day. As known, healthcare professionals play a crucial role in increasing organ donation through their contacts with patients and their relatives (1,13). When examining the related studies, it was determined that most of the hospital's administrative staff members had knowledge on organ donation and their primary source of this information was healthcare professionals. A study that analyzed university students' views on organ donation reported that students mostly did not have knowledge on organ donation, and they obtained this information from mass media such as television, newspapers, and magazines (14,15). An international study revealed that university students held knowledge on organ donation, which they acquired from healthcare professionals (16). In this study, it was also determined that the majority of those working in different occupational groups had knowledge about organ donation and institutions dealing with organ donation. Likewise, a study conducted by Balcı and Şahingöz with nurses indicated that most of nurses were knowledgeable with these issues (1).

Organ donation is a treatment method eligible for the Islam and does not has any religious objections (17). In this study, it was determined that the majority of the occupational groups stated that organ donation is appropriate in terms of religion, but 84.6% of them did not donate their organs. It has been reported in the literature that the majority of participants have positive attitudes, but they do not have organ donor cards (1,18, 19,20).

These results indicate that although individuals hold a positive attitude toward organ donation, they are unable to turn it into behavior, and this is a universal problem. Hence, it is believed that identifying and eliminating the potential causes to the inability to turn this positive attitude into behavior would be important in increasing organ donation rates.

This study revealed that most of the healthcare professionals were aware of organ donation and transplantation, but they believed this knowledge was insufficient; they did not want to donate their organs due to their poor health condition and familial reasons, they would accept someone else's organs when they need organ donation and they could donate organs to people of the opposite gender and non-Muslims. In a study conducted by Özkan and Yılmaz to assess knowledge and attitudes toward organ donation, they concluded that relatives of patients were unwilling to donate their organs due to distrust in doctors (18). In their study, Balcı et al., found that nurses were undecided about whether or not to donate organs (1). Hence, it is thought that it may be beneficial to increase educational programs aimed at raising social awareness about organ donation.

When it is discovered in Turkey that organ transplantation is performed for pecuniary advantage, the activities of the relevant center are immediately suspended, and the judicial authorities are notified in accordance with the provisions of Law No. 5237. Furthermore, the center and its employees, whose activities are suspended as described in this article, are prohibited from engaging in organ transplantation activities (21). The participants in the study by Balcı and Şahingöz stated that there was no pecuniary advantage (1). Similarly, 50% of the participants in this study stated that there is no pecuniary advantage in organ transplantation. However, the rate of the participants who responded with "I do not know" was nearly 50%. Furthermore, it was determined that 41.8% of the participants responded "No" to the question "Would you donate the organs of a relative who has been pronounced brain-dead?" and the reason for refusing to donate organs was "unwillingness to assume the responsibility of someone else". The literature yielded similar findings (22). Hence, it is thought that maintaining the prominence of organ donation and facilitate its discussion within family, as well as addressing this matter in visual and print media, television series, movies, and maybe most

importantly, in school curricula, as well as extending organ donation activities throughout the year rather than confining them to a single week, may yield more favorable outcomes.

In the study, it was found that the rates of organ donation, willingness to have their organs donated after death, acceptance of someone else's organs in case of need and organ donation to a non-Muslim were higher in women when compared to men, and the difference between the groups was statistically significant. In their study, Balcı and Şahingöz found that this rate was higher in men<sup>1</sup>. This result is thought to be associated with regional differences.

It was found that doctors and nurses had a higher rate of knowledge on organ donation than administrative staff members, and the difference between the groups was significant. In their study, Aytaş et al., found that 40% of nurses had sufficient level of knowledge about this issue (23). Similarly, Şıpkın et al (24), reported that 93.9% of nurses had sufficient level of knowledge, while Akış et al., found that 72% of nurses had sufficient level of knowledge (25). Given that the rate of organ donation would rise as the level of knowledge about organ transplantation elevates, those who now hold negative attitudes toward organ donation and transplantation and are indecisive about becoming organ donors may be more inclined to donate their organs if they are provided with training aiming at raising public awareness. In the literature, it has been also reported that educational level is a significant factor in determining the willingness to donate organs, and individuals with higher educational level held positive attitudes toward organ donation (1,22). This study revealed that especially those with bachelor's/postgraduate degree had higher rates of knowledge about organ donation, were willing to donate their organs after death, would accept someone else's organs in case of need, and would donate organs to non-Muslims.

Compared to the other occupational groups, medical secretaries had a higher rate of willingness to have their organs donated after death, while this rate was the lowest in administrative/finance staff members. Also, the rates of accepting someone else's organs in cases of need and donating organ to a non-Muslims were higher in doctors and nurses and lowest in administrative/finance staff members. In the literature it has been also reported that healthcare professionals working in the positions of doctors and nurses have a higher rate to donate their organs than other personnel (6,26,27).

There are some limitations that limit the level of evidence of the study. This study is limited to the staff working in the hospital where the study was conducted, and the results can only be generalized to this group. Future studies should be conducted with a larger population and multicenter trainings. It should be evaluated with a larger population to determine comprehensive results.

#### 5. CONCLUSION AND RECOMMENDATIONS

This study revealed that those who had a bachelor's degree and postgraduate degree and were doctors, nurses and medical secretaries had knowledge on organ donation, donated organs, perceived organ donation as religiously appropriate and were willing to donate organs after death. Although a great majority of hospital staff deemed organ donation appropriate, they did not donate organs. Based on these results, it is recommended that awareness about organ donation among hospital staff be raised through periodic in-service trainings, they be directed to organ donation, and that healthcare professionals develop plans to promote organ donation in Turkey, where there is a high demand for organ transplantation.

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### **CONFLICTS OF INTEREST**

All authors of this study declare that they have no conflicts of interest. Manuscript has been seen and approved by all authors.

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