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RESEARCH ARTICLE

THE CONCEPT OF BRAIN DEATH FOR MEDICAL STUDENTS IN THE COLLEGE OF MEDICINE IN IMAM MOHAMMED BIN SAUD ISLAMIC UNIVERSITY IMSIU 2013.

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Manuscript History

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Key words:-

Imam University, medical students,
brain death, I, II, III and 4th year.

Abstract

Background: The brain death is the colloquial term for the determination of human death by showing the irreversible cessation of the clinical functions of the brain. This research from which we want to know what is the concept of brain death for medical student in college of medicine in Mohammad bin Saud Islamic university.

Material and method: in this randomize sampling study the survey was taken from four levels of preclinical years.

Results: 81.5% of participant had knowledge about the concept of brain death. 72.2% of participant had knowledge about the organ donation, 7.4% of participant had donated blood and 92.6% had never donated out of these donors 11.1% had donated due emergency and 1.9% of donors developed complications post donation. Nevertheless, the number of respondents in this study, but we found a very appropriate number for their understanding of the subject.

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Introduction:-

The colloquial term for the determination of human death by showing the irreversible cessation of the clinical functions of the brain, has been practiced since the 1960s and is growing in acceptance throughout the world. Of the three concepts of brain death--the whole-brain formulation, the brain stem formulation, and the higher brain formulation--the whole-brain formulation is accepted and practiced most widely. For medical students especially for medical students at the Imam Muhammad bin Saud Islamic University This study is very modern in this university, especially given that college of Article called brain death. Given for one semester only through which to promote , explain and enhance this concept, through it we have this research note that there are several institutes, universities and hospitals outside the Kingdom, especially in Western countries are in the research and dear this concept in their communities and universities.

Objectives:-

1. Definition of Brain Death concept.
2. Awareness of Medicine students' community of Brain death.
3. Awareness of Medicine students' community of Organ Donation.
4. Enhancement of Medicine students' community of Brain death and Organ Donation.

Material and Methods:-

The study was randomized sample descriptive survey from first, second, third and fourth year from IMSIU College of medicine in Riyadh, KSA. The data was selected randomly so that was distributed 54 paper survey. After that all the data has been collected and incorporated in the program SPSS Version 21 in an accurate and correct method.

The Result:-

The end result of this study showed the following:

- 1- 81.5% of participant had knowledge about the concept of brain death.
- 2- 72.2% of participant had knowledge about the organ donation
- 3- 7.4% of participant had donated blood and 92.6%. Had never donated.
- 4- 11.1% of participant had donated due emergency.
- 5- 1.9% from donors developed complications post donation.

Statistics						
		Age	Academic Year	Did You Know About Brain Death	Did You Know About Organ Donation	Have You ever Donate
N	Valid	54	54	54	54	54
	Missing	0	0	0	0	0
Mean		22.70				
Median		21.50				
Mode		21				
Std. Deviation		3.385				
Range		16				
Minimum		19				
Maximum		35				
Percentiles	25	21.00				
	50	21.50				
	75	23.00				

Statistics					
		If Yes Then The Donation For Relative	Did The Donation Due To ER Causes	Did You Have Any Problem After Donation	Did Anybody Ask You For Donation
N	Valid	54	54	54	54
	Missing	0	0	0	0
Mean					
Median					
Mode					
Std. Deviation					
Range					
Minimum					
Maximum					
Percentiles	25				
	50				
	75				

Statistics				
		Did You Know The criteria Of Donors selection	Have You Visit The Donation Centre	If Yes Have You Visit Saudi Centre For Organ Transplantation
N	Valid	54	54	54
	Missing	0	0	0
Mean				
Median				
Mode				
Std. Deviation				
Range				
Minimum				
Maximum				
Percentiles	25			
	50			
	75			

Frequency Table:-

Age					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	18-23	42	77.77	77.77	77.77
	24-29	9	16.66	16.66	94.43
	30-35	3	5.5	5.55	99.98
	Total	54	100.0	100.0	

Academic Year					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	first year	10	18.5	18.5	18.5
	second year	5	9.3	9.3	27.8
	third year	37	68.5	68.5	96.3
	fourth year	2	3.7	3.7	100.0
	Total	54	100.0	100.0	

Did You Know About Brain Death					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	44	81.5	81.5	81.5
	No	10	18.5	18.5	100.0
	Total	54	100.0	100.0	

Have You Ever Donated					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	4	7.4	7.4	7.4
	No	50	92.6	92.6	100.0
	Total	54	100.0	100.0	

If Yes Then the Donation for Relative:-

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	4	7.4	7.4	7.4
	No	26	48.1	48.1	55.6
	Empty	1	1.9	1.9	57.4
	Empty	23	42.6	42.6	100.0
	Total	54	100.0	100.0	

Did The Donation Due To ER Causes:-

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	6	11.1	11.1	11.1
	No	31	57.4	57.4	68.5
	Empty	17	31.5	31.5	100.0
	Total	54	100.0	100.0	

Did You Have Any Problem After Donation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	1	1.9	1.9	1.9
	No	32	59.3	59.3	61.1
	Empty	21	38.9	38.9	100.0
	Total	54	100.0	100.0	

Did Anybody Ask You For Donation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	15	27.8	27.8	27.8
	No	37	68.5	68.5	96.3
	Empty	2	3.7	3.7	100.0
	Total	54	100.0	100.0	

Did You Know The Criteria Of Donors Selection

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	18	33.3	33.3	33.3
	No	36	66.7	66.7	100.0
	Total	54	100.0	100.0	

If Yes Have You Visit Saudi Centre For Organ Transplantation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	12	22.2	22.2	22.2
	No	42	77.8	77.8	100.0
	Total	54	100.0	100.0	

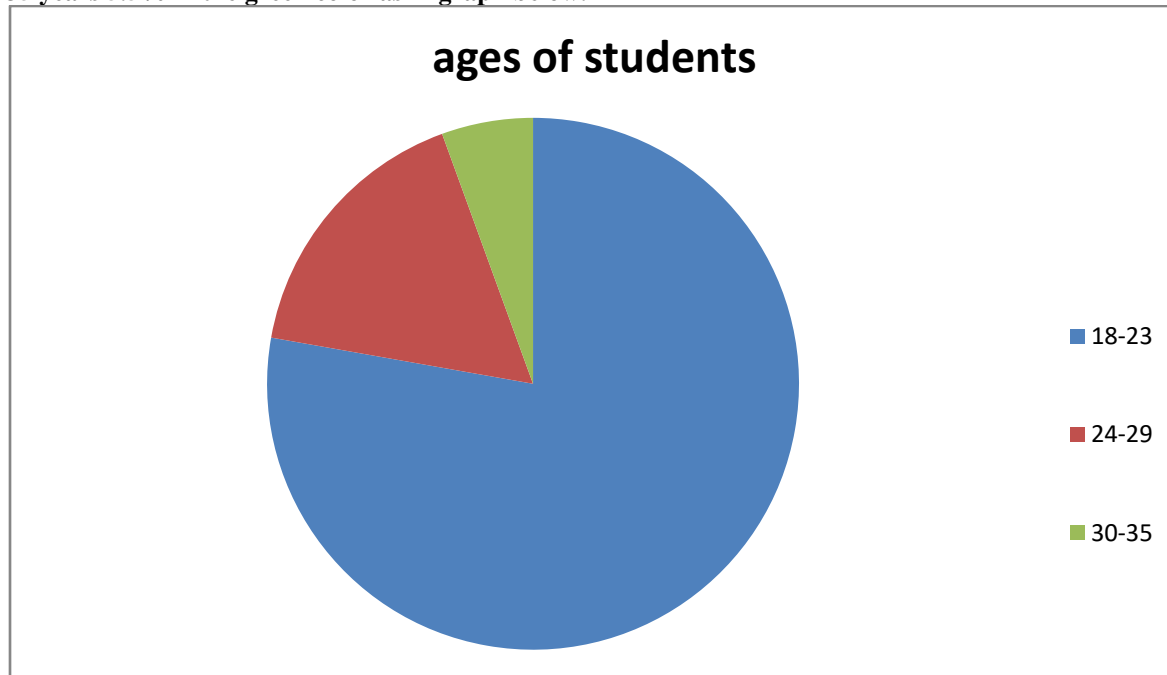
Have You Visit The Donation Centre

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	15	27.8	27.8	27.8
	No	39	72.2	72.2	100.0
	Total	54	100.0	100.0	

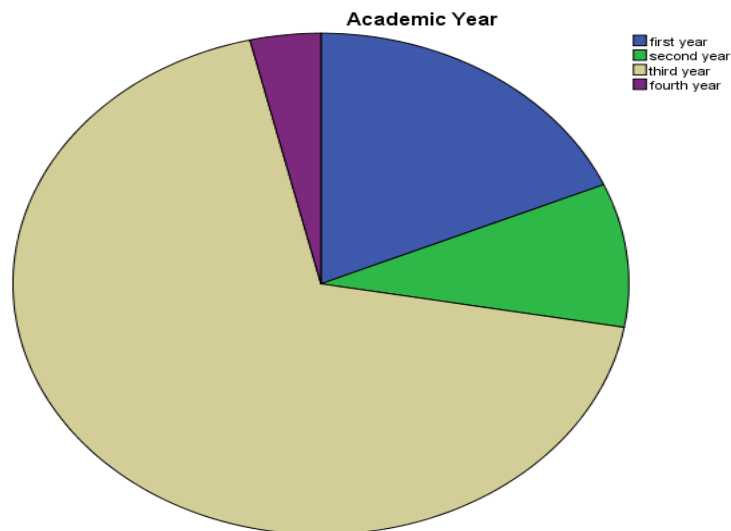
Discussion:-

Brain death and organ donation concept are taking into the consideration since there is a high demand of organ donation in Saudi Arabia and it is a cost effective process in Saudi health care system, thus the study is designated to promote, educate and recognize the current status of Brain death and Organ donation concept in our Saudi society among Medical student since they are involved in the future as a physician who is responsible to promote and educate society regarding the concept of Brain death and organ donation .

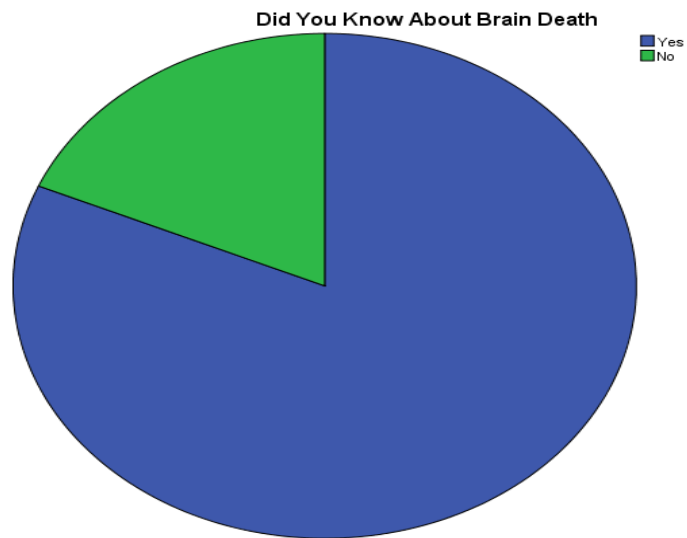
Regarding the age of the students it was varying proportionally were certain percentage of the majority of students were between 18-23 years 77.77%, then followed by 24-29 years 16.66% and the lowest one was 30-35 years 5.5% in the green color as in graph below.



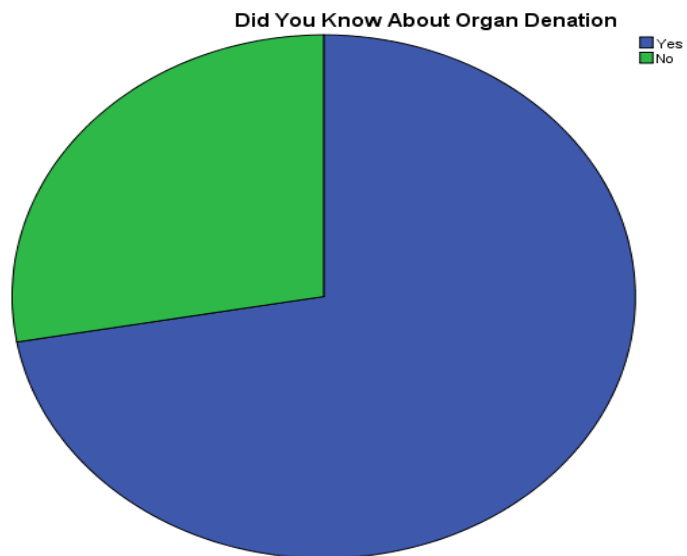
The majority of students are the third year students and represents 68% while the minority is the Fourth year students 3.7% as seen below.



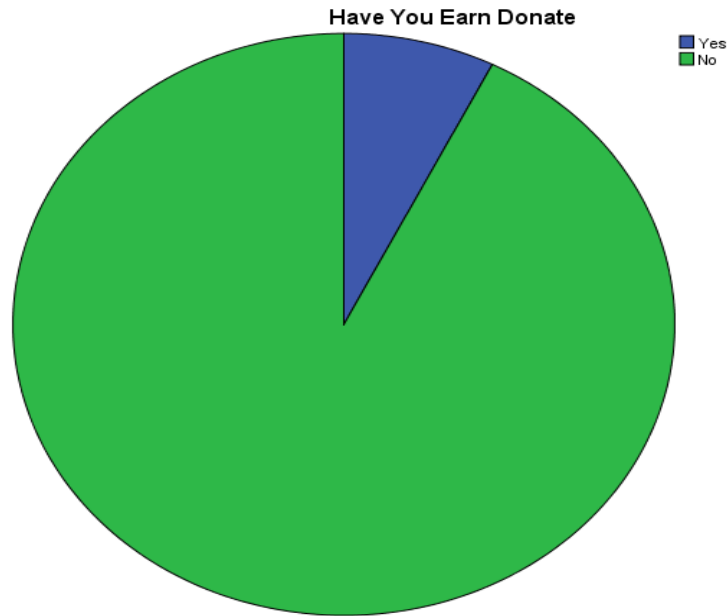
81.5% of students acknowledge that they knew about the concept of brain death.



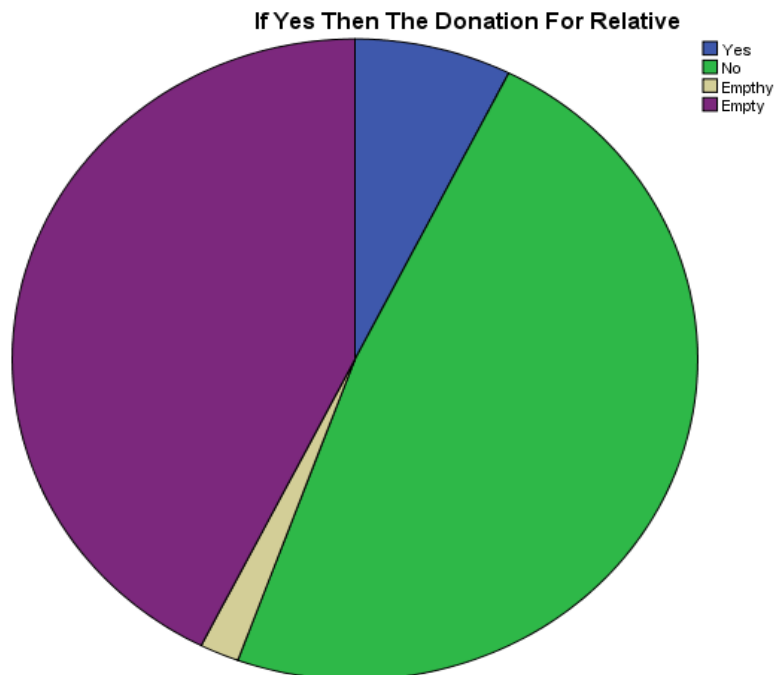
72.2% of students acknowledge that they knew about the concept of organ donation.



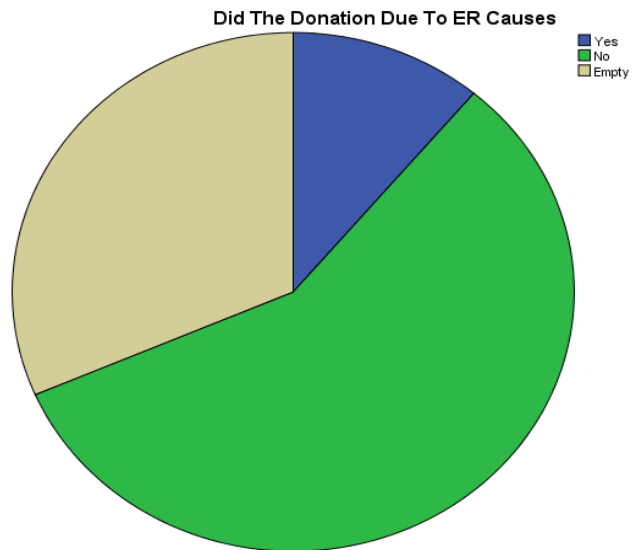
7.4% of students answered yes for the donation and 92.6 of students answered no. All the donations were blood donation among to those students who answered yes.



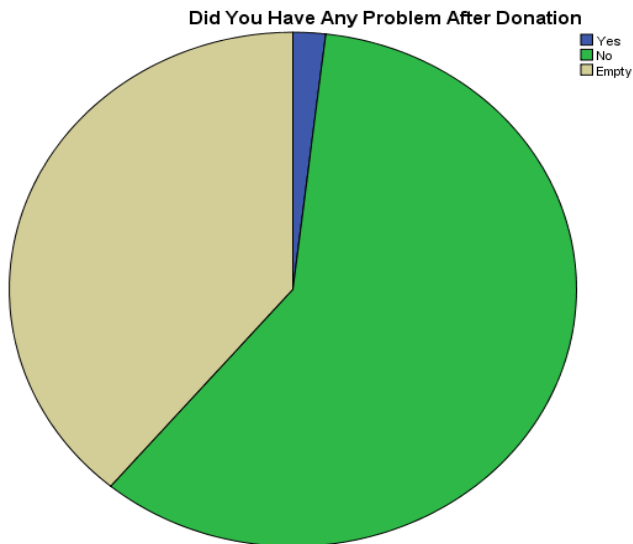
7.4% of students donated for relative, 48.1% of students donated for a non relative and 42.6% of students not answered



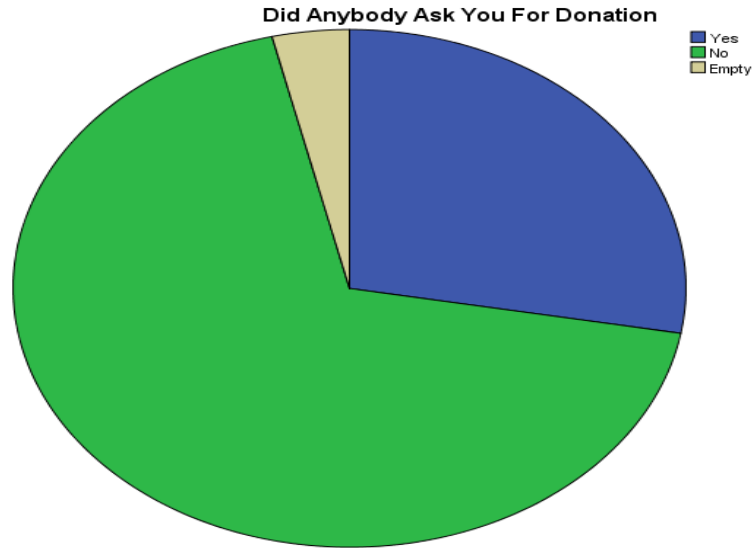
11.1% of students' Donation due to emergency, 57.4% of students' donation were not urgent and 31.5% of students not answered.



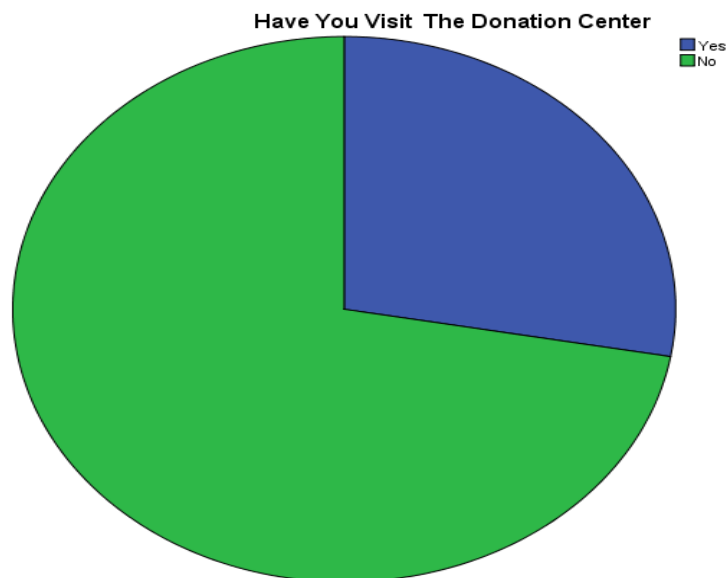
1.9% of students developed complication post donation, 59.3% of student are free of complication and 38.9% not answered .



66.7% of students were not asked for donation, 27.8% of students asked for donation and 3.7% of students had not answered.



66.7% of students had visited the donation centre and 33.3% of students had not.



Conclusion:-

We concluded that there is a high percentage of the student who had an adequate information and knowledge about the brain death. A high percentage of these students, understood the concept of organ donation versus

A small percentage of students did not understand the purpose of the survey due to their beginner's status in medical school.

Despite the high percentage of students knew and understood the concept of brain death and organ donation, there are those who didn't understand or know about the topic. We advice that the topic should be included in the medical school curriculum .

Limitations:-

We were not able to provide an information guide to the participants, also one of our limitations is that we were not able to communicate with the first year student to understand what was difficult in our survey.

Acknowledgment:-

We would like to thank everyone who helped us in this Research project

And we would like to thank all of our follow students for their time and effort

Thank you

Survey sample

1-Age:

2-Academic year:

1-First 2-Second 3-Third 4-Fourth

3-Did You Know About Brain Death?

1-Yes 2-No

4-Did You Know About Organ Donation?

1-Yes 2-No

5-Have You Earn Donate?

1-Yes 2-No

6- If Yes Then the Donation for Relative?

1-Yes 2-No

7-Did The Donation Due To ER Causes?

1-Yes 2-No

8-Did You Have Any Problem After Donation?

1-Yes 2-No

9-Did Anybody Ask You For Donation?

1-Yes 2-No

10-Did You Know The Characteristic Of Donors?

1-Yes 2-No

11-Have You Visit The Donation Center?

1-Yes 2-No

12-If Yes Have You Visit Saudi Center For Organ Transplantation?

1-Yes 2-No