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**INTERNATIONAL JOURNAL OF  
 ADVANCED RESEARCH (IJAR)**

Article DOI: 10.21474/IJAR01/6271  
 DOI URL: <http://dx.doi.org/10.21474/IJAR01/6271>



### RESEARCH ARTICLE

#### **FAMILY PRESENCE DURING RESUSCITATION (FPDR): A SURVEY OF EMERGENCY DEPARTMENT'S HEALTHCARE PROVIDERS SEEING ADULT PATIENTS IN TERTIARY HOSPITALS, RIYADH, SAUDI ARABIA.**

Deena N. Bedaiwi, Amnah A. Alhazmi, Ahmad A. Alghamdi, Amani F. Almuqbil<sup>1</sup>, Abdullah A. Almufarrih, Hanin S. Alshammari, Elham H. Alfilaj, Matar M. Alsomali, Hamdan M. Alaklabi, Khalid M. Alanazi, Fatimah H. Alhariri, Malak Z. Abdullah and Mohamed S AlShahrani.

1. KKHU.
2. KSMC.
3. PSMC.

#### **Manuscript Info**

##### **Manuscript History**

Received: 10 November 2017  
 Final Accepted: 12 December 2017  
 Published: January 2018

##### **Key words:-**

resuscitation, family, presence, CPR, team..

#### **Abstract**

**Background:** Objectives: this study was conducted to determine the impact of family presence during resuscitation and to determine attitude of health care practitioner toward family presence during resuscitation.

**Methods:** This study conducted at Prince Sultan military medical city, King Khalid university hospital and King Saud medical city in Riyadh Saudi Arabia. A cross sectional descriptive study to find out effect of presence of relatives during CPR on health care providers and family members in Riyadh, Saudi Arabia. All health providers attending during adult CPR were included in the study. 360 HCP were interviewed using a questionnaire. (semi-structured interview). data analysis done by the use of SPSS program

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#### **Introduction:-**

Cardiopulmonary resuscitation (CPR) is one of the most evolving areas of modern medicine. It is a lifesaving technique is useful in many emergencies but it is a shock for the family member during the resuscitation. Cardiopulmonary resuscitation is essential in cases of suffocation near drowning, electrocution injuries, and heart attack. Presence of patients' families during resuscitation has emerged as an important practice issue, sparking considerable controversy worldwide.

Family presence during resuscitation (FPDR): The presence of family in the patient care area, in a location that affords visual or physical contact with the patient during resuscitation events.

Family member: A person older than 18 years who has an established relationship with the patient (includes patient's family, loved ones, and close friends)

Family support person (FSP): A role assigned to a specific healthcare provider (HCP) who has no direct patient care responsibility during a resuscitation and is specifically assigned to initiate interventions, assist the family, provide emotional and psychosocial support, and be a shoulder to lean upon in Family presence during resuscitation (FPDR) situations. The importance of the patient's relatives to accept the result of the recovery with less psychological damage, When these were evaluated.

A program of Family presence during resuscitation was instituted at Foote, with a follow-up as result Positive feedback came from both families and staff. A survey was then conducted of family Members of patients who had recently died in the hospital to determine whether they had felt a need to be present Of the 18 surveyed, 13 (72%) responded that they wished they had been present during the resuscitation (1).

In other Survey in 1985 of 47 family members who had been present during resuscitation reporting that 76% felt that their adjustment to the death was made easier by their presence in the room and 64% felt that their presence was beneficial to the dying person (1).

In other study evaluated the medical staff safety and sense of security in the family presence during resuscitation they found the median stress level as measured on the visual-analogue scale was 5 out of 100 (interquartile range, 0 to 15) among 1710 health care professionals, there is no significant differences in stress levels according to family-presence status (2).

In our study we are evaluating our study objectives of health care practitioners in 3 major hospitals in Riyadh city

### Methods:-

#### • Study sittings:

The study was conducted at three major hospitals which are Prince Sultan military medical city, King Khalid university hospital and King Saud medical city in Riyadh Saudi Arabia

#### • Study design:

A cross sectional descriptive study to find out Attitudes and effect of presence of relatives during CPR on health care providers and family members in Riyadh, Saudi Arabia

#### • Study sample:

All health providers attending during adult CPR (consultant, specialist, resident, intern, nurse and paramedic).

#### • Sample size:

We used formula for sample size calculation for estimation of one proportion:

$$n = \left[ \frac{Z_{\alpha/2}}{E} \right]^2 * P(1 - P)$$

Where

$n$  = sample size  
 $Z_{\alpha/2} = 1.96$  (The critical value that divides the central 95% of the Z distribution from the 5% in the tail)  
 $p$  = the prevalence of the outcome variable  
 $E$  = the margin of error (=width of confidence interval)

$$n = \frac{1.96^2 \times 0.3(1-0.3)}{(0.05)^2} = 322.7 \sim 323 \text{ 0 subjects included.}$$

#### • Sample technique:

The study population selected by simple random sampling equally between three major hospitals.

#### • Data collection:

The data was collected via interviewing healthcare providers practicing in emergency department in assigned hospitals.

• The analysis done by the use of SPSS program.

**Results:-**

Our study included 360 HCP from 3 major hospitals in Riyadh “PSMMC 30% , KKUH 34% And KSMC 30%” comprised of 160 physicians, 162 nurses, and 38 EMT, Percentage of males 45% And Female 55%. Average age between 20-29 Their percentage is higher than 59%.

Percentage of Saudis in the questionnaire 38% And non-Saudi 62% , The average experience was 1-5 year.

Demographic variables		Frequency	Percent
HCP age range in years	20-29	214	59%
	30-39	103	29%
	40-49	28	8%
	50-59	13	4%
	60 and above	2	1%
HCP, male or female	Male	162	45%
	Female	198	55%
HCP nationality	Saudi	137	38%
	Non-Saudi	222	62%
HCP Profession	Physician	160	44%
	Nurse	162	45%
	EMT-Paramedic.	38	11%
Years of experience range	< year	88	24%
	1-5 Y	149	41%
	6-10 Y	64	18%
	11-15 Y	27	8%
	16-20 Y	10	3%
	> 20 Y	22	6%
Hospital institution	KSMC	107	30%
	KKUH	121	34%
	PSMMC	132	37%

73% nonbeliever in family presence during resuscitation, Percentage of people who say that the organization does not currently have a written policy for family attendance during 80%, 33% would support the policy of family presence during resuscitation, 53% indicated that they allow a family member to attend the resuscitation. 70% never allowed a family member to attend the resuscitation. 52% asked by a family member if they could be present during the resuscitation, 67% believe that the family members have the right to request to attend resuscitation. 29% let the family members attend the resuscitation. 46% said there are enough staff in your institution to support the family members when they witness the resuscitation. 52% it will be allowed where one of your family members had a cardiac arrest and needed a resuscitation.

Questions	Values (Levels)	Frequency	Percent
Do you believe in the family presence?	Yes	96	26.7%
	No	264	73.3%
Does your institution currently have a written policy for the family presence during resuscitation?	Yes	71	19.7%
	No	289	88.3%
Would you support the policy of family presence during resuscitation to be applied?	Yes	120	33.3%
	No	240	66.7%
If the policy of family resuscitation was applied in your institution, would you allow the family to attend?	Yes	170	47.2%
	No	190	52.8%
Have you ever allowed a family member to attend the resuscitation?	Yes	107	29.7%
	No	253	70.3%
Have you ever been asked by a family member if they could be present during	Yes	188	52.2%
	No	172	47.8%

the resuscitation?			
Do you believe that the family members have the right to request to attend resuscitation?	Yes	240	66.7%
	No	120	33.3%
Would let the family members attend the resuscitation?	Yes	104	28.9%
	No	256	71.1%
Is there enough staff in your institution to support the family members when they witness the resuscitation?	Yes	167	46.4%
	No	193	53.6%
If you were in a situation where one of your family members had a cardiac arrest and needed a resuscitation, would you ask to attend the resuscitation?	Yes	188	52.2
	No	172	47.8%

percentage of Respondents who strongly agree 25.3% for family should be offered to attend the resuscitation,

Statement	Agreement Scale				
	Strongly disagreed	Disagree	Neutral	Agree	Strongly agree
3.1: The family should be offered to attend the resuscitation.	7.2%	13.1%	20.8%	33.6%	25.3%
3.2: The family should be welcomed into the resuscitation room if they ask to attend.	6.4%	22.2%	21.4%	32.2%	17.8%
3.3: The family presence during the resuscitation has apposite effect on the resuscitation team.	4.2%	10.3%	20.3%	32.2%	33.1%
3.4: The family presence can increase the anxiety/stress of the resuscitation team.	42.5%	29.7%	16.7%	8.9%	2.2%
3.5: Family members may misinterpret some specific interventions.	40.8%	41.7%	8.9%	5.8%	2.8%
3.6: Family presence during the resuscitation increases the risk of litigation	20.6%	39.7%	29.7%	6.7%	3.3%
3.7: Family members present during resuscitation would be more understanding regarding the outcome of the patient's condition	8.1%	21.7%	33.3%	26.4%	10.6%
3.8: Family members could potentially disrupt the resuscitation	29.7%	45.3%	17.8%	6.1%	1.1%
3.9: Verbal communication between resuscitation team members may be limited with the family presence	22.8%	37.5%	21.1%	14.4%	4.2%
3.10: Family presence during resuscitation would help the resuscitation team during breaking the bad news	10.0%	26.9%	33.9%	17.2%	11.9%
3.11: Family presence during resuscitation would be helpful for them to accept the death of the patient.	8.9%	25.0%	35.3%	20.3%	10.6%
3.12: Family presence during resuscitation would make them more understanding when resuscitation team members decide to stop the resuscitation	8.3%	21.4%	33.9%	26.1%	10.3%
3.13: Family presence during resuscitation would make them suffer from a long-term emotional effect	20.8%	37.5%	26.9%	12.5%	2.2%
3.14: Family presence during resuscitation would make them more satisfied with the	5.8%	22.2%	41.7%	21.7%	8.6%

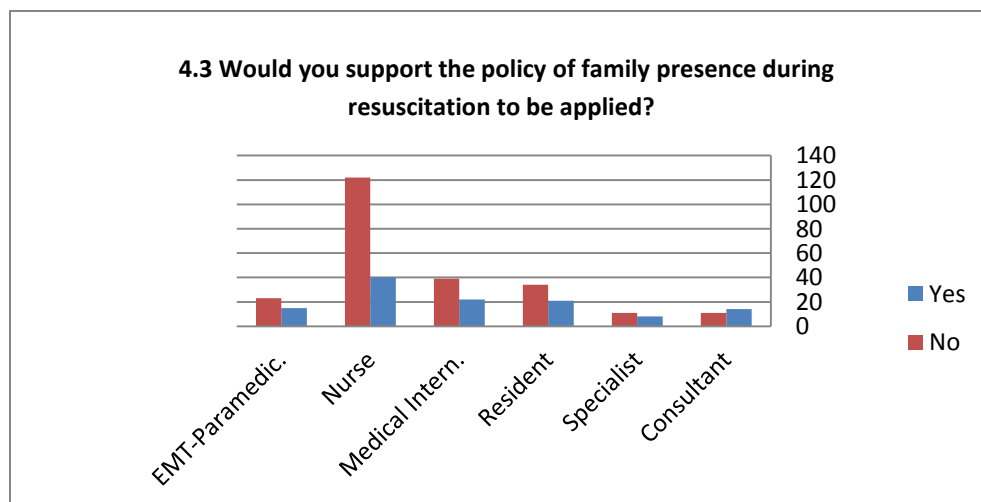
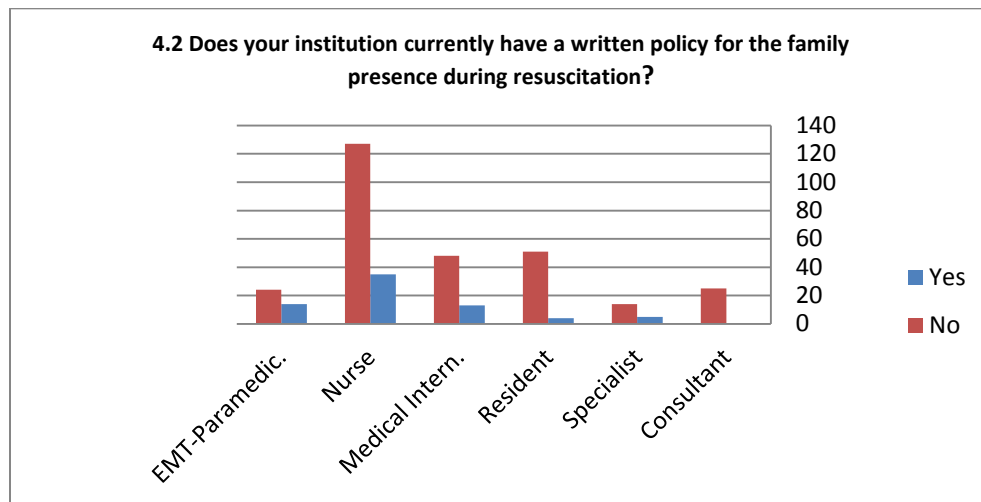
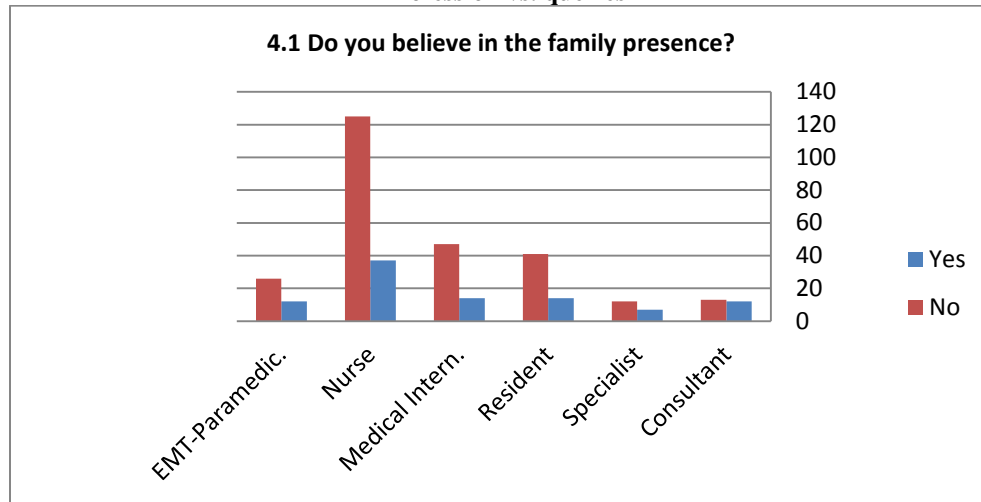
effort of the resuscitation team					
3.15: If the family members were not present, they would express anger toward the resuscitation team for not doing everything possible to save the patient's life	7.8%	23.9%	37.2%	23.1%	8.1%
3.16: The family might be allowed to be present only if they were well informed about resuscitation first, and accompanied by a knowledgeable family support person	12.8%	36.4%	26.7%	16.7%	7.5%
3.17: Due to the small space in the resuscitation room, I will not allow the family to attend the resuscitation	33.3%	30.3%	21.7%	11.9%	2.8%
3.18: I don't mind the family presence during the resuscitation but I will allow only one member to attend	10.6%	18.6%	26.1%	28.9%	15.8%
3.19: Family presence during resuscitation would make them feel better because they were with the patient in his/her difficult moments	8.3%	16.7%	34.4%	25.8%	14.7%

As noted from the above table, 25% of the participants stated that the family should attend the resuscitation, and 32% of them think that their presence during the resuscitation will have a positive effect. 32% of them agreed on allowing the family to attend if they were asked to. 42% of the participants strongly disagreed about the common thought that the family presence will increase the anxiety and stress of the resuscitating team. In addition, 40% of the study population strongly disagreed about our question that states if family members will present they will misinterpret some specific intervention. About 39.7% disagreed that presence of family members will increase the litigations. Regarding their opinion about presence of family members during the resuscitation will make them more understating about the outcome of the patient condition, 33.3% were neutral. In asking about if the family members will disrupt the resuscitation 45.3% disagreed. 37.5% disagreed that the verbal communication between the team will be disrupted in the presence of the family. 11.9% strongly agreed that the presence of the family during resuscitation will help the team during breaking bad news. 25% of the studied population disagreed that family presence will help them in accepting the death of the patient. 26.1% agreed that the family presence will make them understand why the team decided to stop the resuscitation. 37.5% disagreed that the family presence will make them suffer from long term emotional effect. The opinions are markedly variable regarding if the family presence will make them more satisfied about the effort of the resuscitation team ranging from 5.8% strongly disagreed to 8.6% who are strongly agreed, the same regarding if the family members were not present they would be anger toward the team for not doing everything to save the patient life 21.7% agreed while 22.2% disagreed. About 7.5% strongly agreed that they will allow the family to attend only if they were well informed about the resuscitation. 33.3% strongly disagreed preventing the family from attending due to the small space in the resuscitation room. 15.8% strongly agreed that they will only one member of the family to attend. 14.7% strongly agreed that family presence during resuscitation would make them better because they were with patient in the his/ her difficult time.

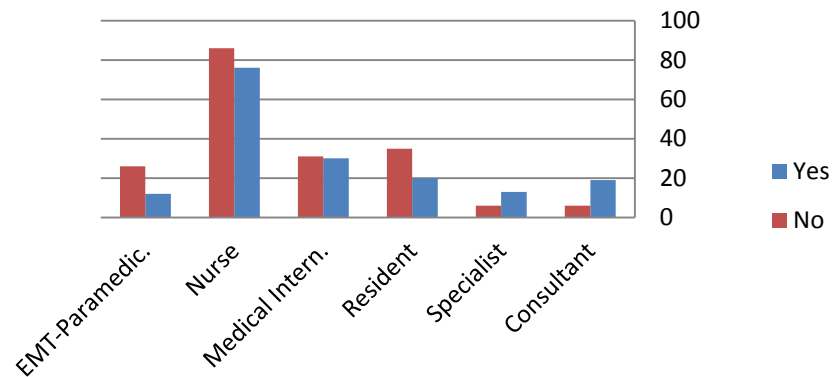
HCP Profession vs. queries								
HCP Profession	Consultant	Specialist	Resident	Medical Intern.	Nurse	EMT-Paramedic.	Total	Chi-Square Test
								Value (Sig.)
4.1 Do you believe in the family presence?								
Yes	12	7	14	14	37	12	96	.110
No	13	12	41	47	125	26	264	
Total	25	19	55	61	162	38	360	
4.2 Does your institution currently have a written policy for the family presence during resuscitation?								
Yes	0	5	4	13	35	14	71	.002
No	25	14	51	48	127	24	289	
Total	25	19	55	61	162	38	360	
4.3 Would you support the policy of family presence during resuscitation to be applied?								

Yes	14	8	21	22	40	15	120	.021
No	11	11	34	39	122	23	240	
Total	25	19	55	61	162	38	360	
4.4 If the policy of family presence during resuscitation was applied in your institution, would you allow the family to attend?								
Yes	19	13	20	30	76	12	170	.003
No	6	6	35	31	86	26	190	
Total	25	19	55	61	162	38	360	
4.5 Have you ever allowed a family member to attend the resuscitation?								
Yes	15	7	20	16	37	12	107	.005
No	10	12	35	45	125	26	253	
Total	25	19	55	61	162	38	360	
4.6 Have you ever prevented a family member to attend the resuscitation?								
Yes	20	9	20	21	110	23	208	.000
No	5	10	35	40	52	15	152	
Total	25	19	55	61	162	38	360	
4.7 Have you ever been asked by a family member if they could be present during the resuscitation?								
Yes	14	11	25	22	93	23	188	.060
No	11	8	30	39	69	15	172	
Total	25	19	55	61	162	38	360	
4.8 Do you believe that the family members have the right to request to attend resuscitation?								
Yes	21	13	34	37	108	27	240	.379
No	4	6	21	24	54	11	120	
Total	25	19	55	61	162	38	360	
4.9 Would you let the family members attend the resuscitation?								
Yes	14	8	17	20	39	6	104	.007
No	11	11	38	41	123	32	256	
Total	25	19	55	61	162	38	360	
4.10 Is there enough staff in your institution to support the family members when they witness the resuscitation?								
Yes	12	10	20	24	84	17	167	.331
No	13	9	35	37	78	21	193	
Total	25	19	55	61	162	38	360	
4.11 If you were in a situation where one of your family members had a cardiac arrest and needed a resuscitation, would you ask to attend the resuscitation?								
Yes	14	9	27	42	74	22	188	.061
No	11	10	28	19	88	16	172	
Total	25	19	55	61	162	38	360	

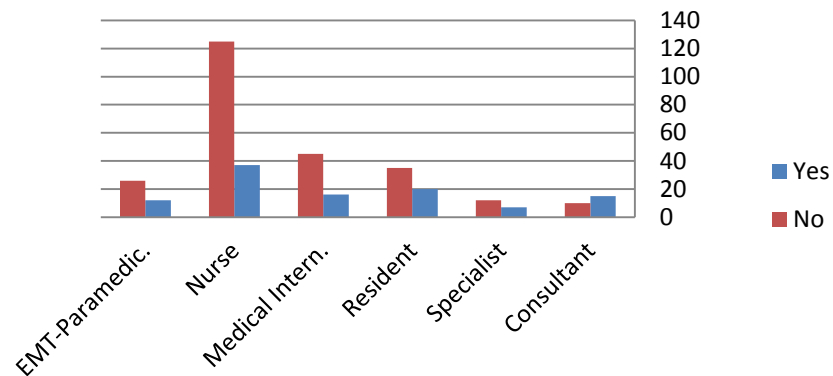
## Profession vs. queries



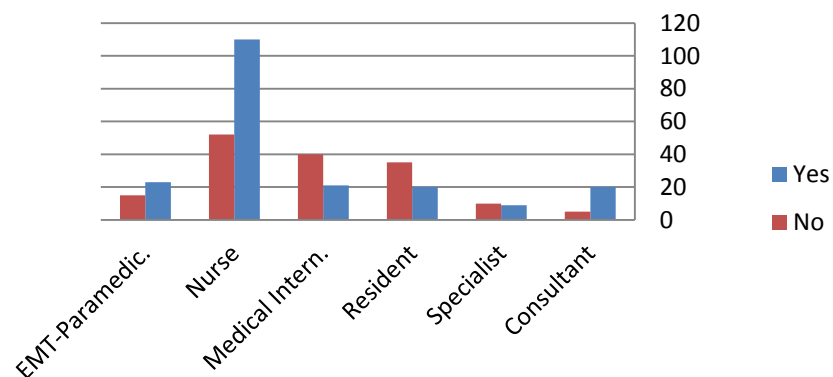
4.4 If the policy of family presence during resuscitation was applied in your institution, would you allow the family to attend?



4.5 Have you ever allowed a family member to attend the resuscitation?

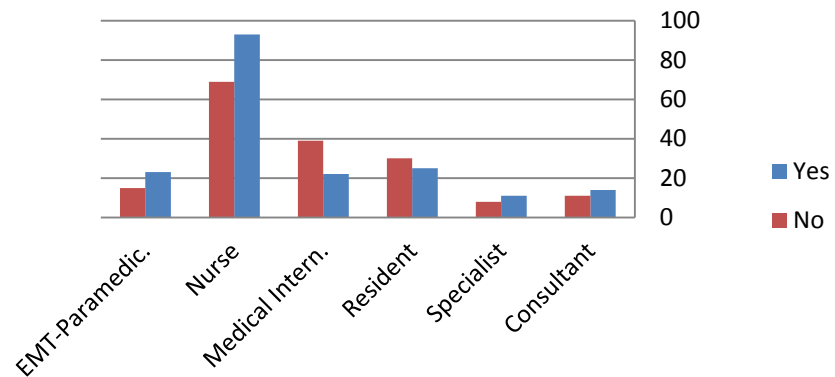


4.6 Have you ever prevented a family member to attend the resuscitation?

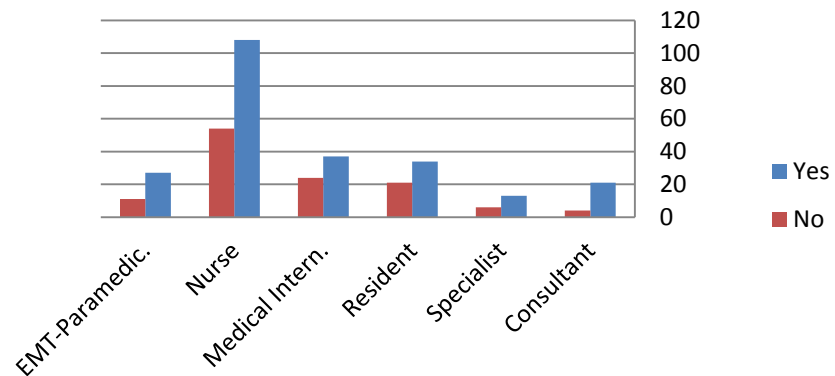




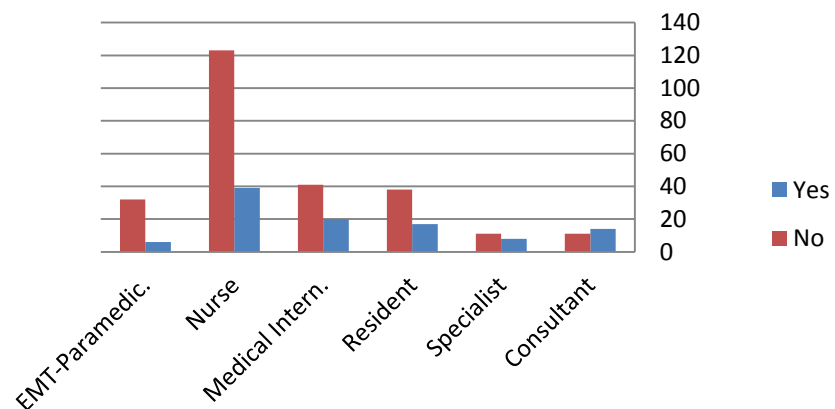
4.7 Have you ever been asked by a family member if they could be present during the resuscitation?

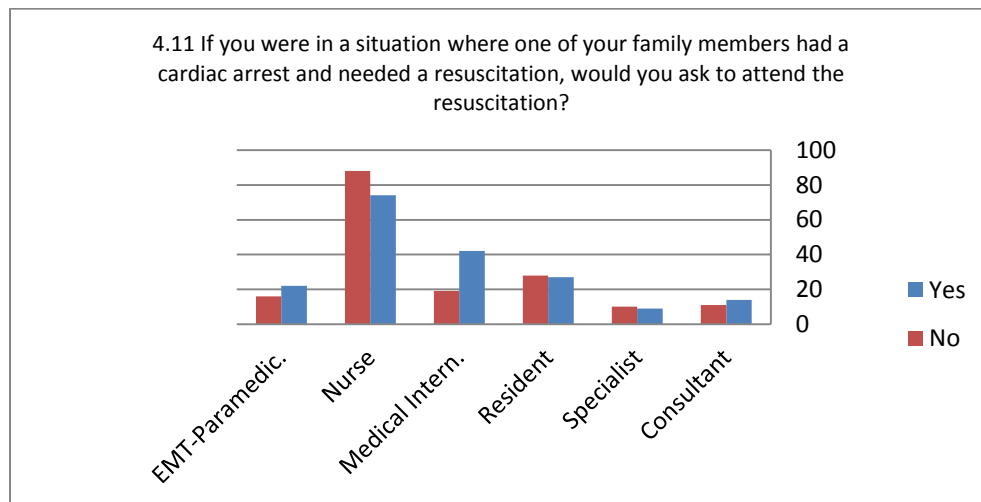
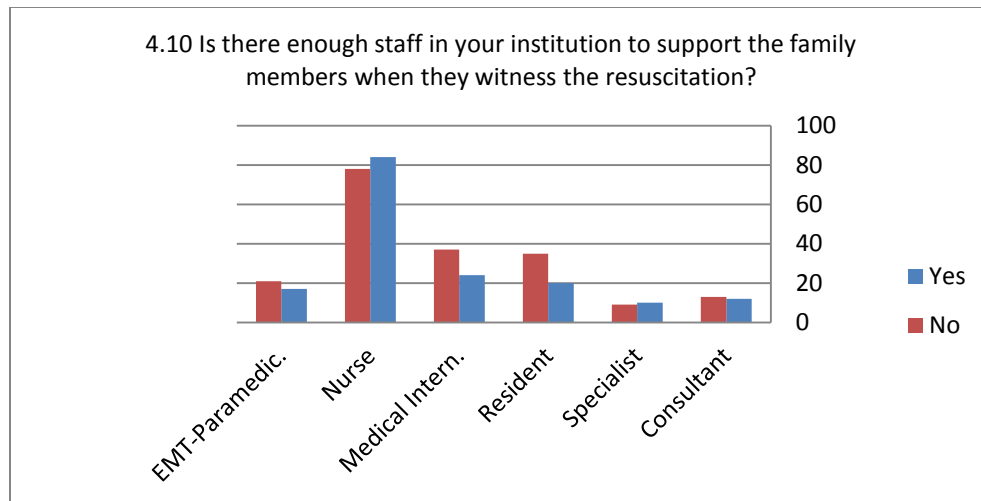


4.8 Do you believe that the family members have the right to request to attend resuscitation?



4.9 Would you let the family members attend the resuscitation?



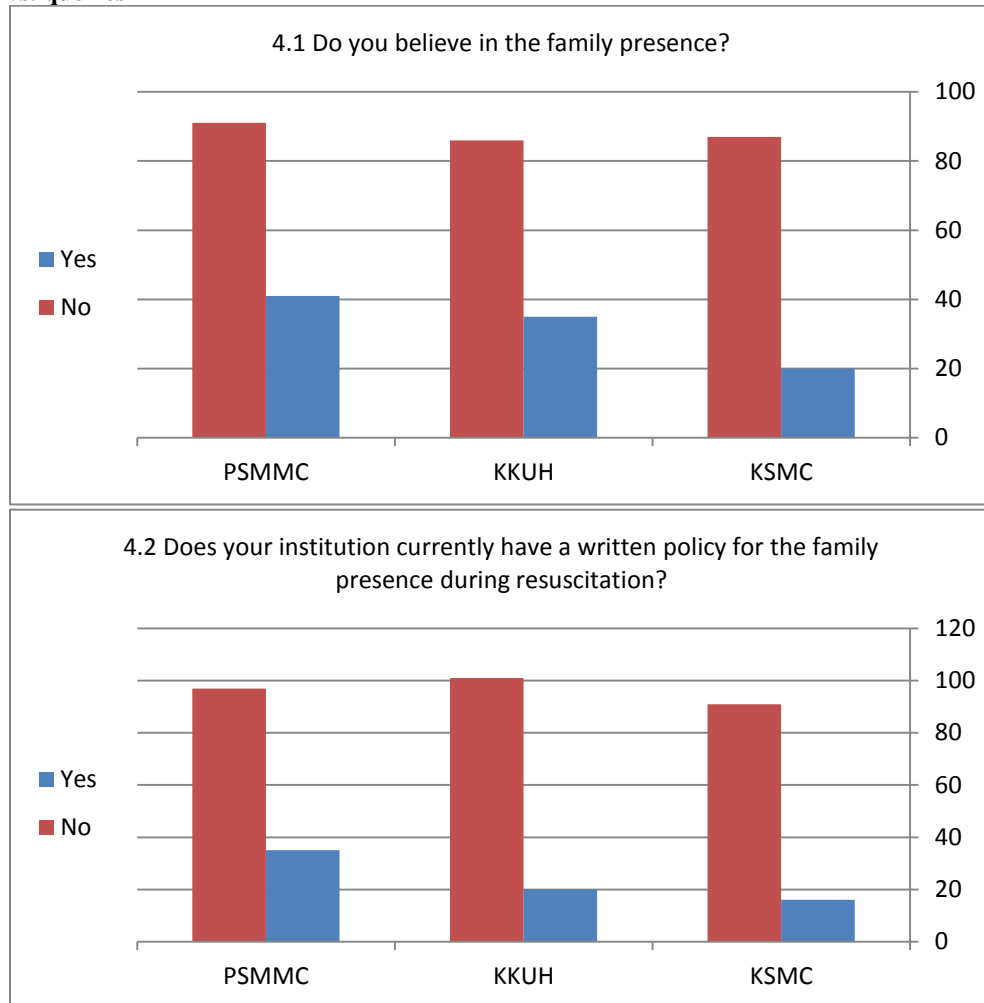


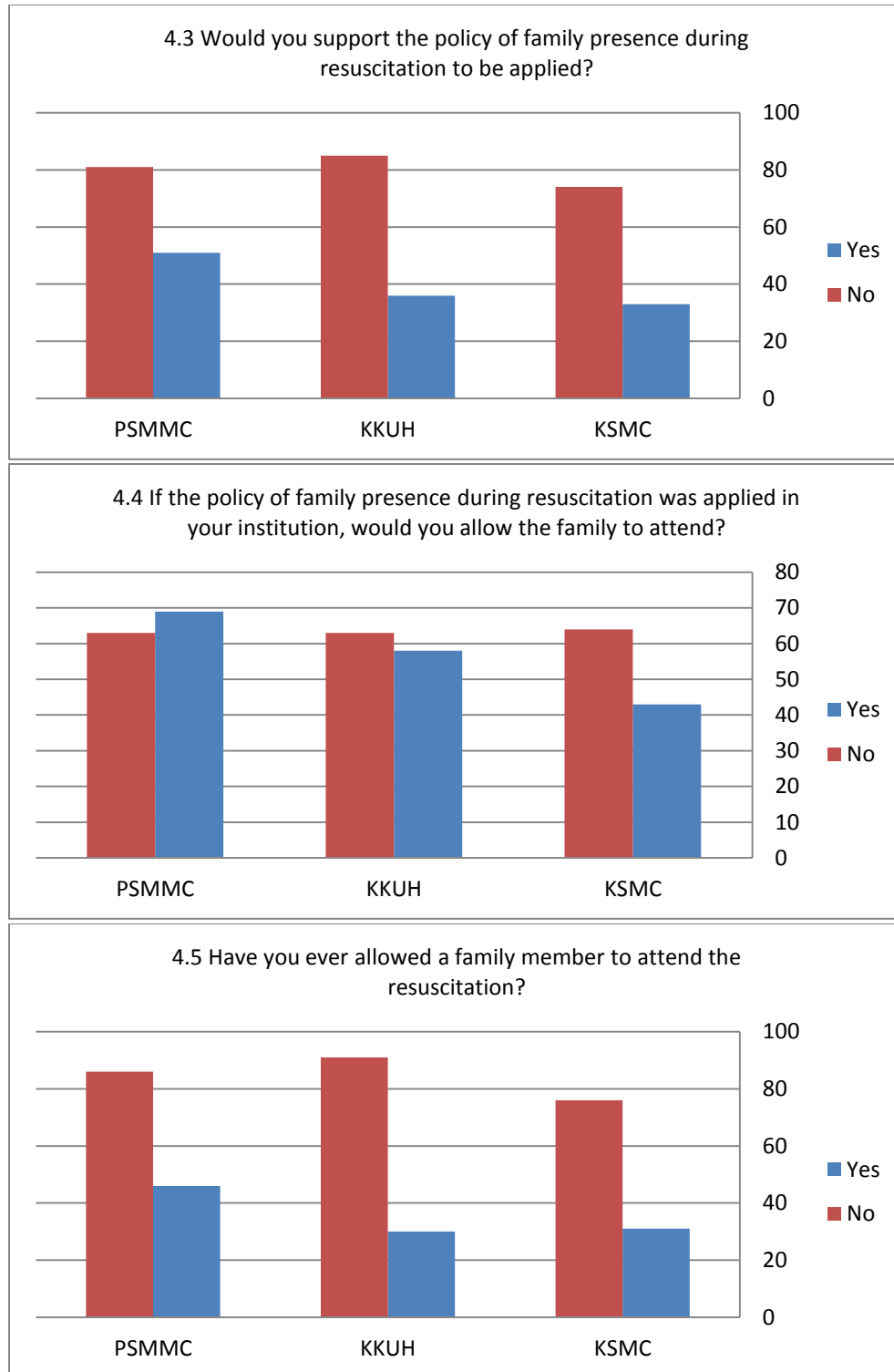
We found After conducting the study on a random sample of different medical professions (consultants 7%, medical interns 17%, residents 15%, specialist 5.3%, paramedics 10.6%, nurse 16.7%) and analyzing the data and forming across tab of the variables with the professions, that there is association between the profession and the decision were made, which means there is independent relationship in between, for example: in the questions (4.2-4.3-4.4-4.5-4.6-4.9), based on the p-value and margins of error that were decided in this study.

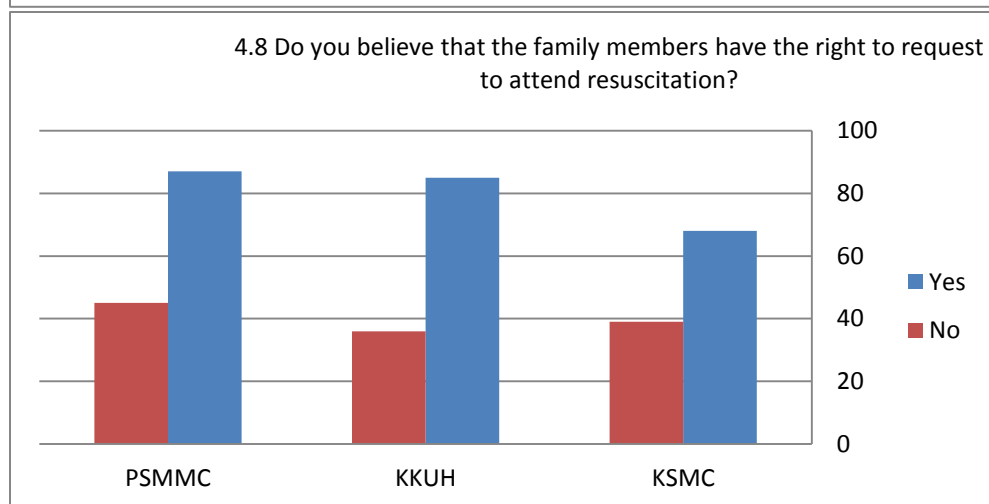
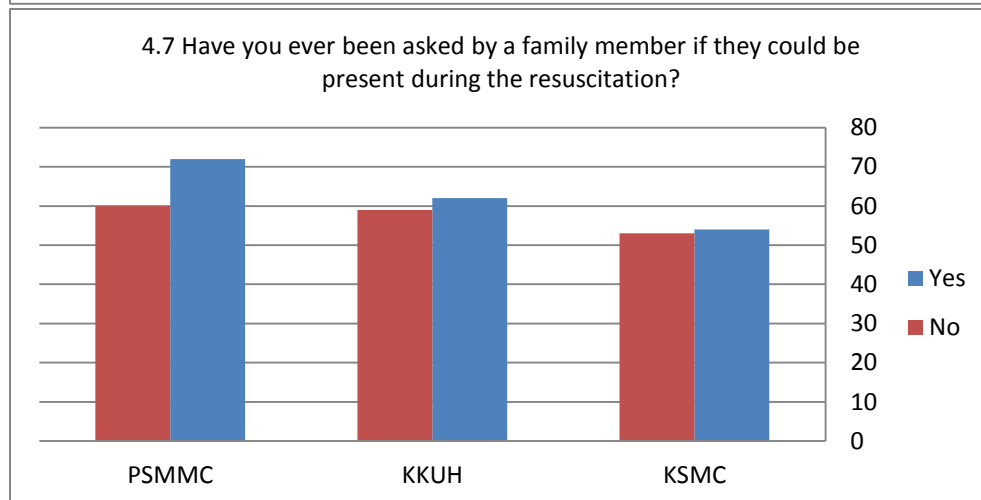
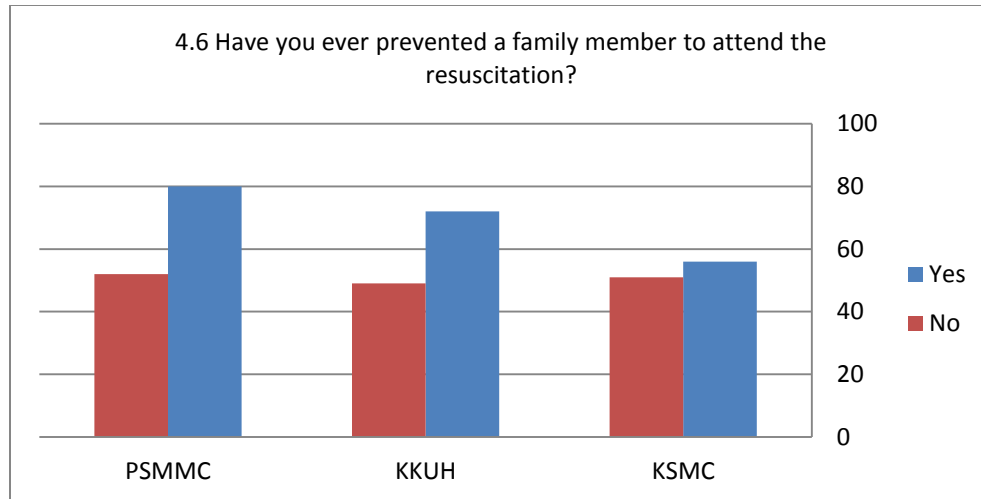
So we can conclude that there is impact of the profession on the decisions. And the previous charts represent that.

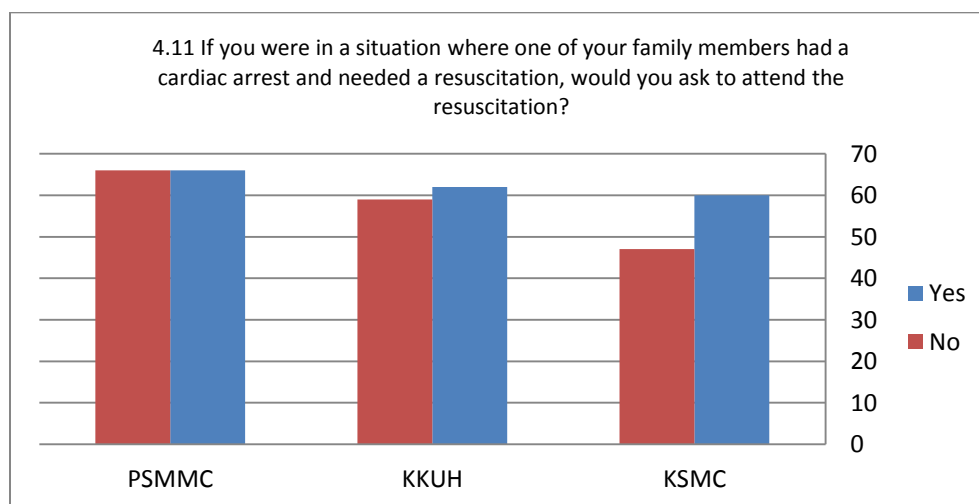
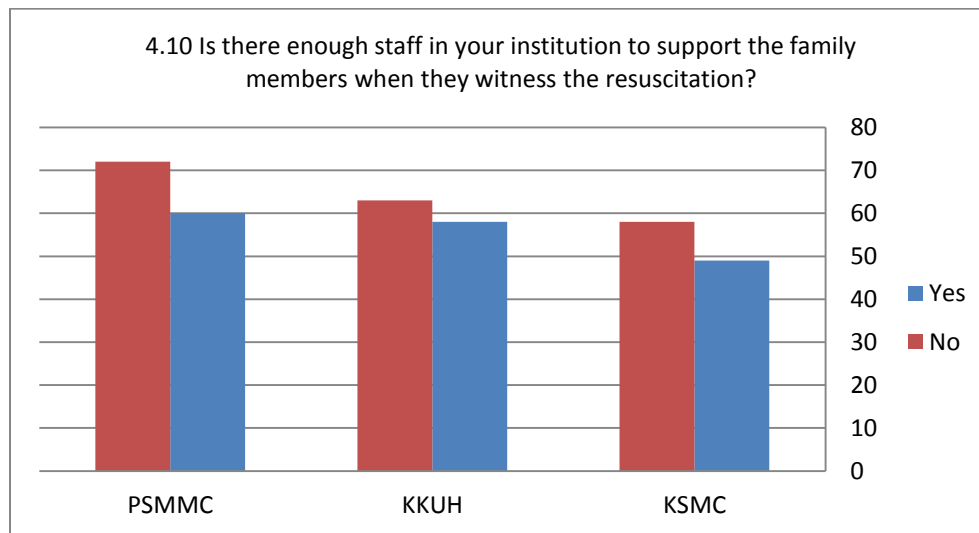
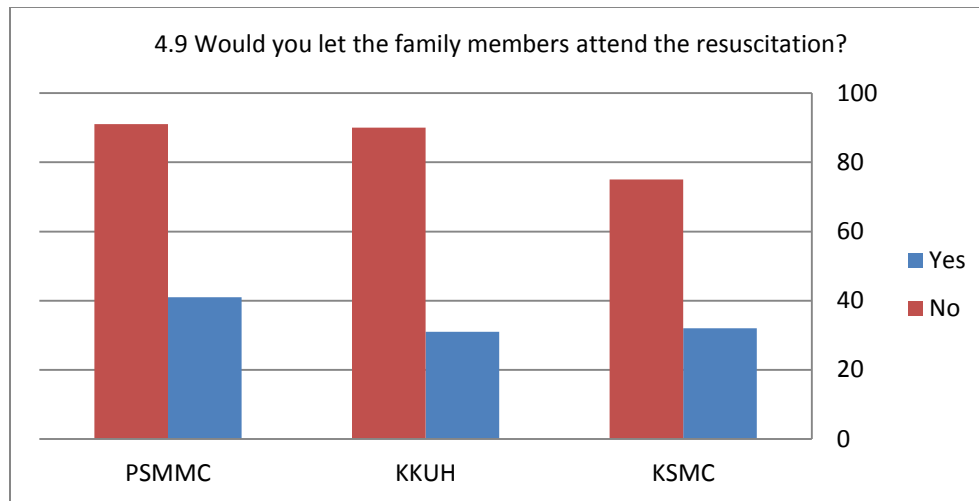
HCP Institution vs. queries					
HCP Profession	KSMC	KKUH	PSMMC	Total	Chi-Square Test
					Value (Sig.)
4.1 Do you believe in the family presence?					
Yes	20	35	41	96	.078
No	87	86	91	264	
Total	107	121	132	360	
4.2 Does your institution currently have a written policy for the family presence during resuscitation?					
Yes	16	20	35	71	.046
No	91	101	97	289	
Total	107	121	132	360	

4.3 Would you support the policy of family presence during resuscitation to be applied?					
Yes	33	36	51	120	.263
No	74	85	81	240	
Total	107	121	132	360	
4.4 If the policy of family presence during resuscitation was applied in your institution, would you allow the family to attend?					
Yes	43	58	69	170	.174
No	64	63	63	190	
Total	107	121	132	360	
4.5 Have you ever allowed a family member to attend the resuscitation?					
Yes	31	30	46	107	.213
No	76	91	86	253	
Total	107	121	132	360	
4.6 Have you ever prevented a family member to attend the resuscitation?					
Yes	56	72	80	208	.391
No	51	49	52	152	
Total	107	121	132	360	
4.7 Have you ever been asked by a family member if they could be present during the resuscitation?					
Yes	54	62	72	188	.793
No	53	59	60	172	
Total	107	121	132	360	
4.8 Do you believe that the family members have the right to request to attend resuscitation?					
Yes	68	85	87	240	.549
No	39	36	45	120	
Total	107	121	132	360	
4.9 Would you let the family members attend the resuscitation?					
Yes	32	31	41	104	.611
No	75	90	91	256	
Total	107	121	132	360	
4.10 Is there enough staff in your institution to support the family members when they witness the resuscitation?					
Yes	49	58	60	167	.915
No	58	63	72	193	
Total	107	121	132	360	
4.11 If you were in a situation where one of your family members had a cardiac arrest and needed a resuscitation, would you ask to attend the resuscitation?					
Yes	60	62	66	188	.624
No	47	59	66	172	
Total	107	121	132	360	

**Institution vs. queries**







The sample was randomly collected from the hospitals , the percentages for each hospital is )KSMC 29.7% , KKHU 33.6% & PSMMC 36.7%( and the data was analyzed , across tab of the variables with the hospital showed that

there is no association between being employed in a certain hospital and taking a particular decision, except in the question number (4.2), based on the p-value and margins of error that were decided in this study.

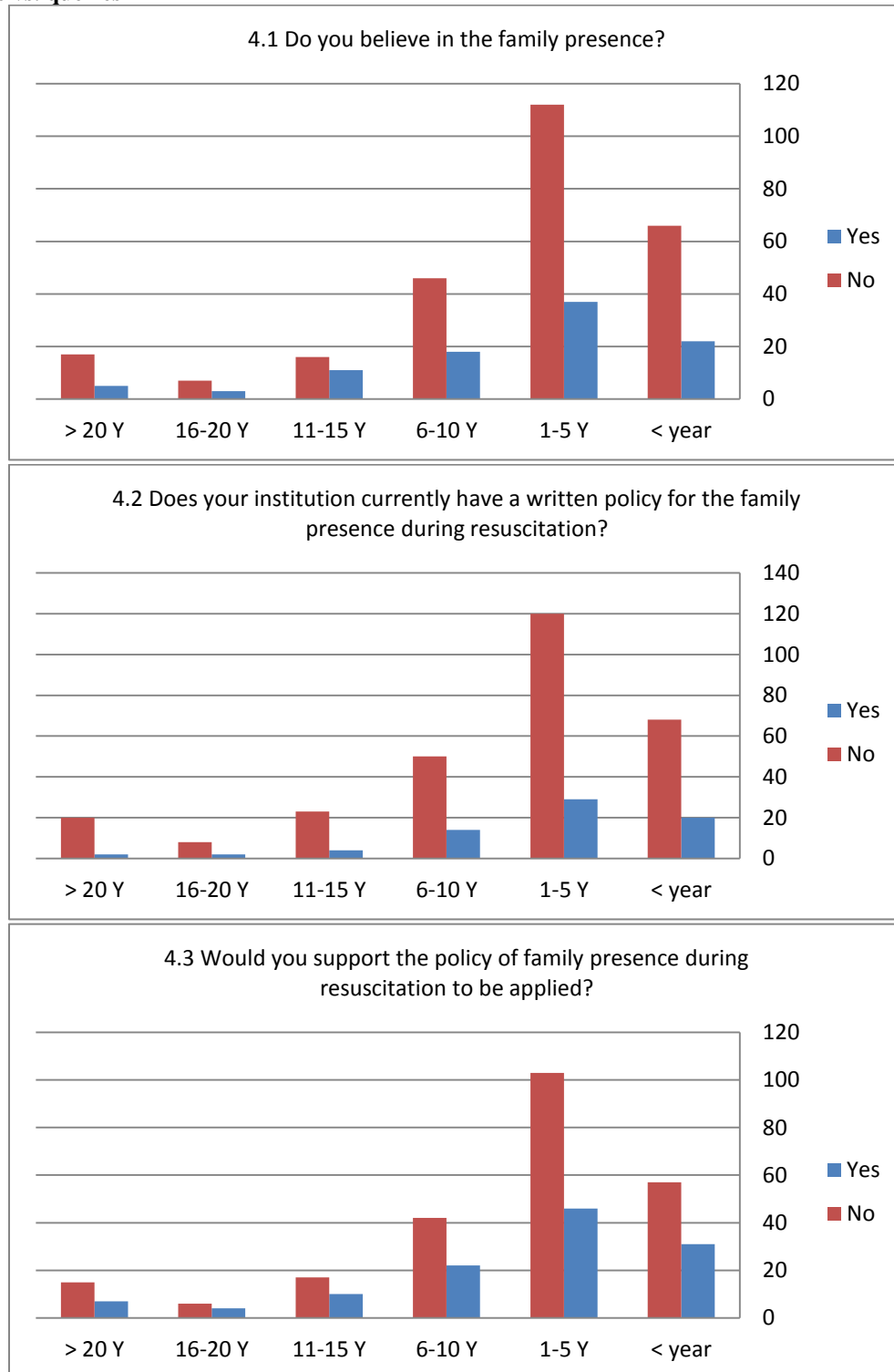
So we can conclude that there is no impact of the hospitals on the decisions of the participants. And the previous charts represent that.

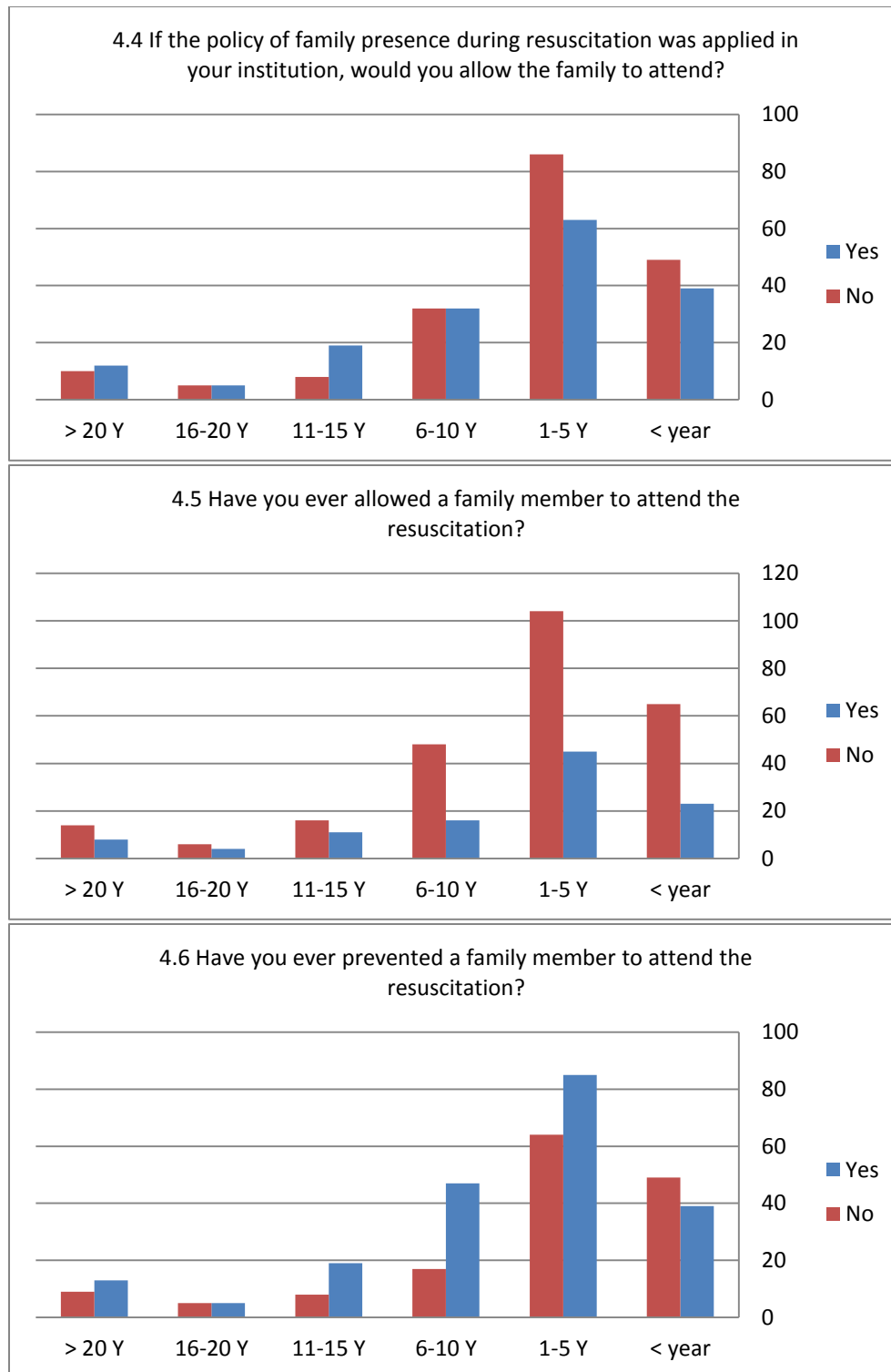
HCP Experience vs. queries								
HCP Profession	< year	1-5 Y	6-10 Y	11-15 Y	16-20 Y	> 20 Y	Total	Chi-Square Test Value (Sig.)
4.1 Do you believe in the family presence?								
Yes	22	37	18	11	3	5	96	.636
No	66	112	46	16	7	17	264	
Total	88	149	64	27	10	22	360	
4.2 Does your institution currently have a written policy for the family presence during resuscitation?								
Yes	20	29	14	4	2	2	71	.750
No	68	120	50	23	8	20	289	
Total	88	149	64	27	10	22	360	
4.3 Would you support the policy of family presence during resuscitation to be applied?								
Yes	31	46	22	10	4	7	120	.965
No	57	103	42	17	6	15	240	
Total	88	149	64	27	10	22	360	
4.4 If the policy of family presence during resuscitation was applied in your institution, would you allow the family to attend?								
Yes	39	63	32	19	5	12	170	.142
No	49	86	32	8	5	10	190	
Total	88	149	64	27	10	22	360	
4.5 Have you ever allowed a family member to attend the resuscitation?								
Yes	23	45	16	11	4	8	107	.581
No	65	104	48	16	6	14	253	
Total	88	149	64	27	10	22	360	
4.6 Have you ever prevented a family member to attend the resuscitation?								
Yes	39	85	47	19	5	13	208	.010
No	49	64	17	8	5	9	152	
Total	88	149	64	27	10	22	360	
4.7 Have you ever been asked by a family member if they could be present during the resuscitation?								
Yes	33	80	44	14	8	9	188	.002
No	55	69	20	13	2	13	172	
Total	88	149	64	27	10	22	360	
4.8 Do you believe that the family members have the right to request to attend resuscitation?								
Yes	55	102	43	18	8	14	240	.876
No	33	47	21	9	2	8	120	
Total	88	149	64	27	10	22	360	
4.9 Would you let the family members attend the resuscitation?								
Yes	24	42	15	13	4	6	104	.254
No	64	107	49	14	6	16	256	
Total	88	149	64	27	10	22	360	
4.10 Is there enough staff in your institution to support the family members when they witness the resuscitation?								
Yes	38	63	39	15	4	8	167	.118
No	50	86	25	12	6	14	193	
Total	88	149	64	27	10	22	360	
4.11 If you were in a situation where one of your family members had a cardiac arrest and needed a								

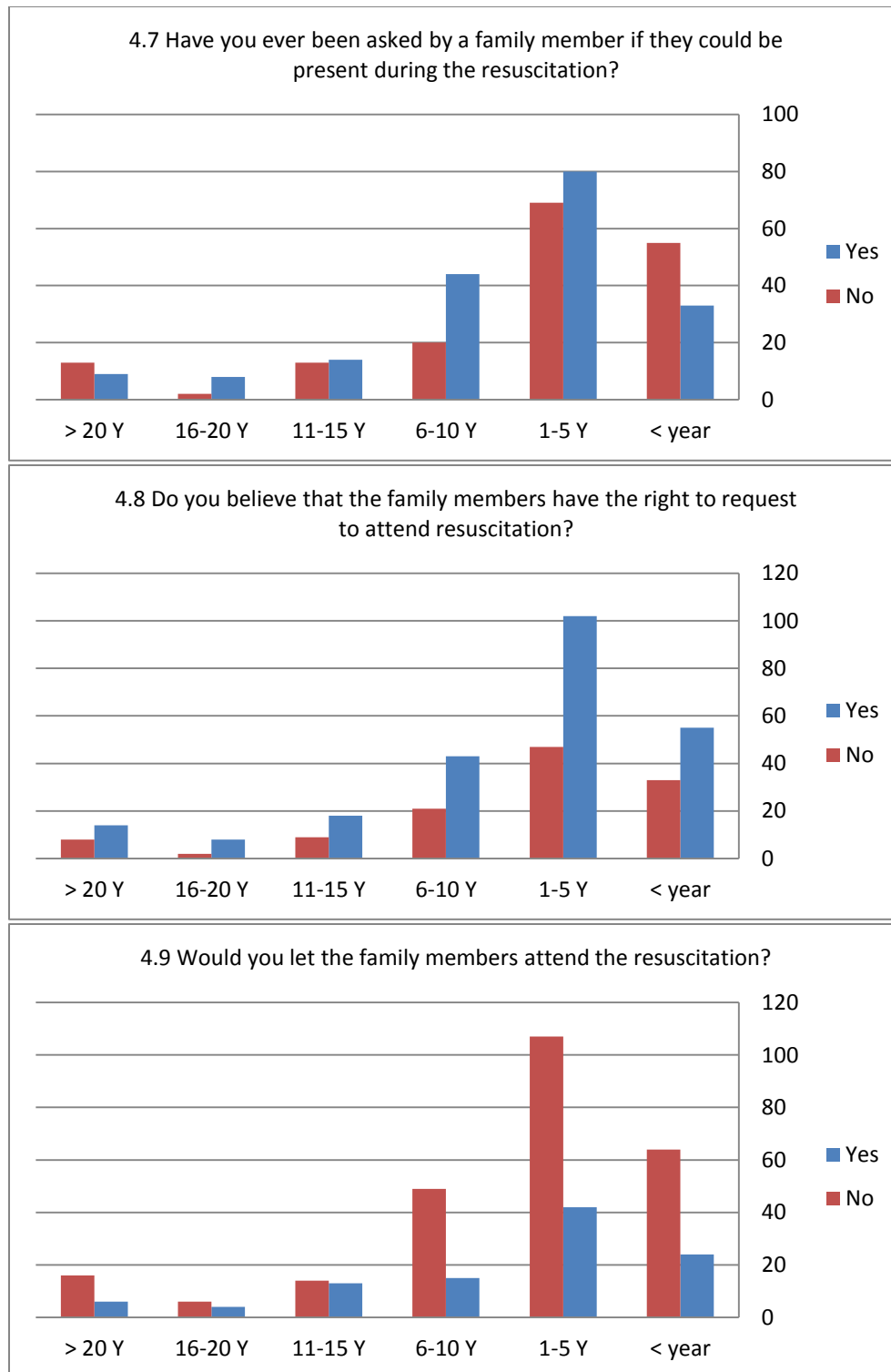


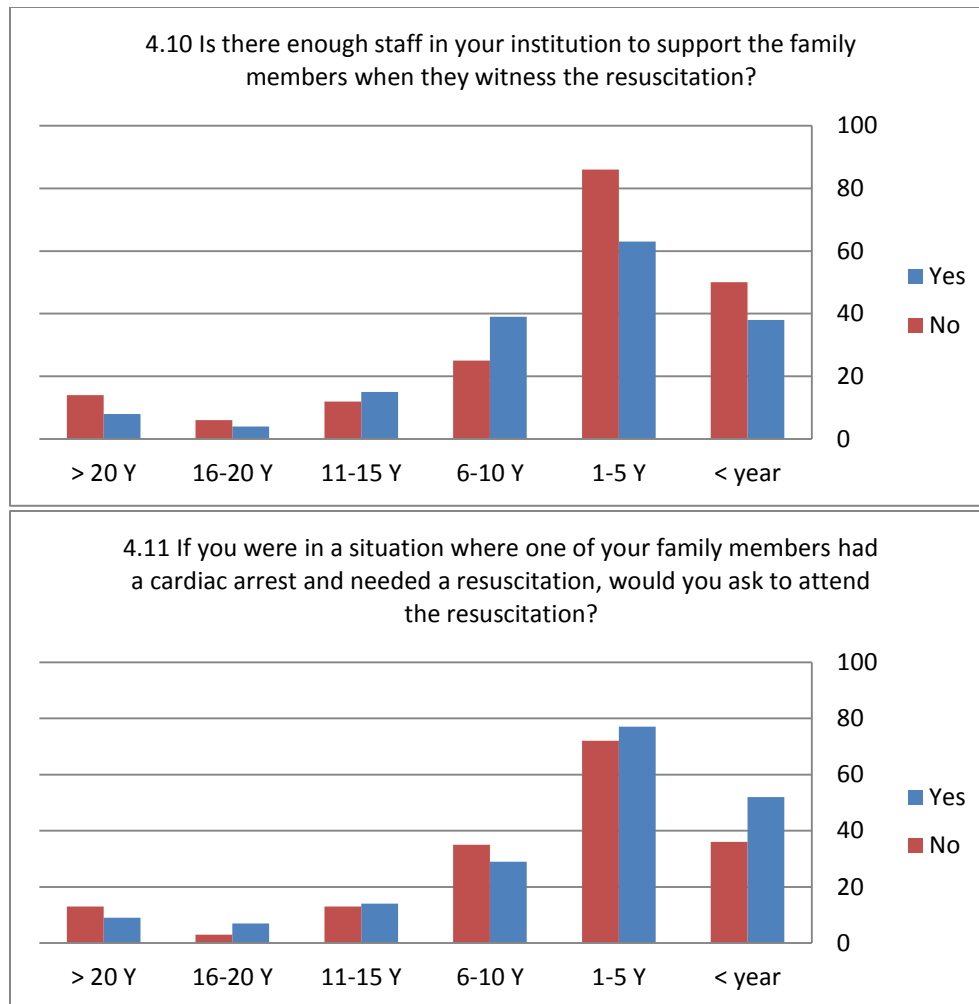
resuscitation, would you ask to attend the resuscitation?								
Yes	52	77	29	14	7	9	188	.380
No	36	72	35	13	3	13	172	
Total	88	149	64	27	10	22	360	

### Experience vs. queries









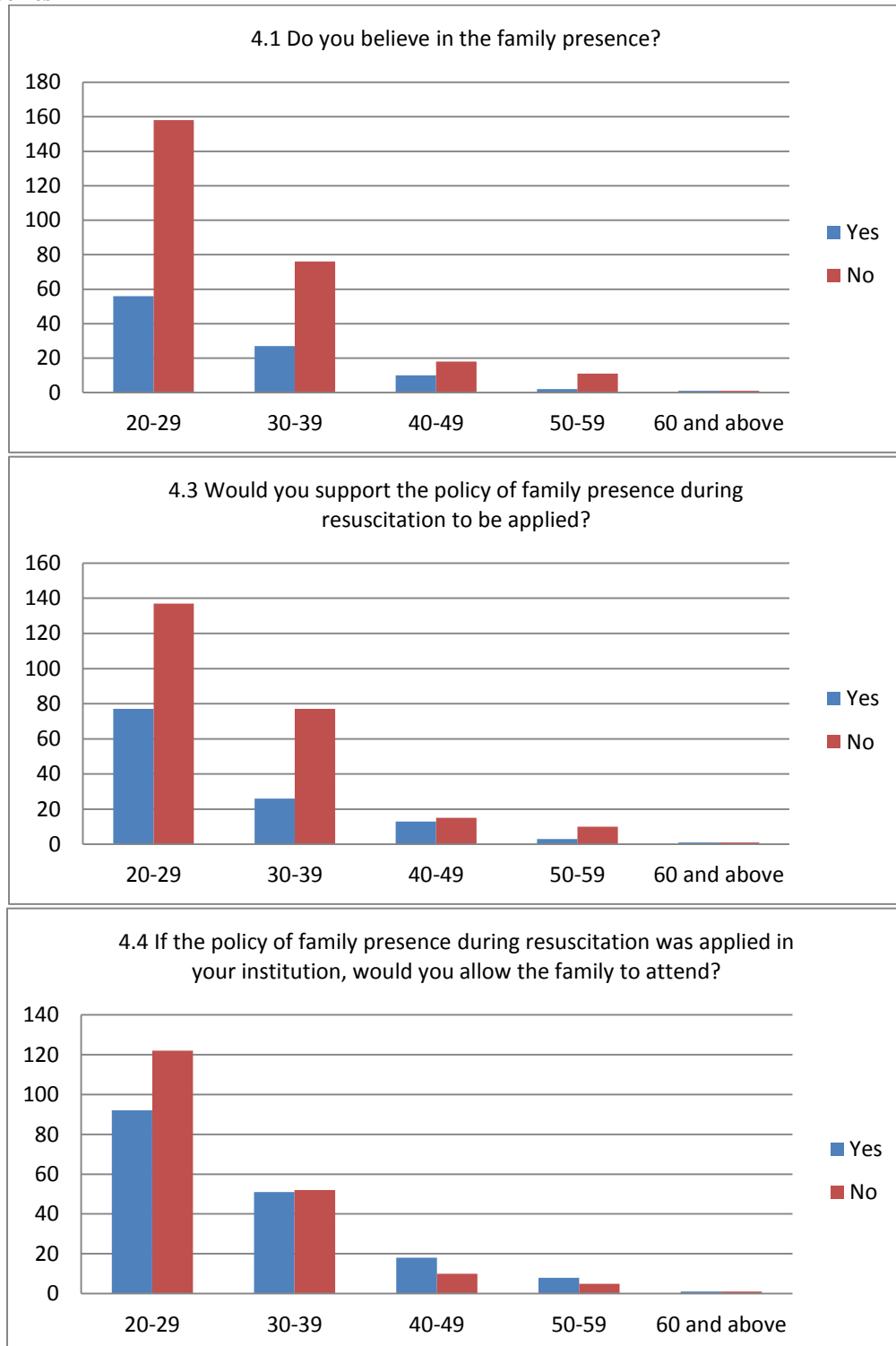
After forming tables comparing the variables with the years of experience of the participants ( the years of experience of the participants in our study :less than one year :24%,1year-5years:41%,6years-10years:18%,11years-15years:8%,16years-20years:3%,experience above 20 years:6%) We found that there is no association between the years of experience and taking a particular decision, in respect to the p-value and margins of error that were decided in this study.

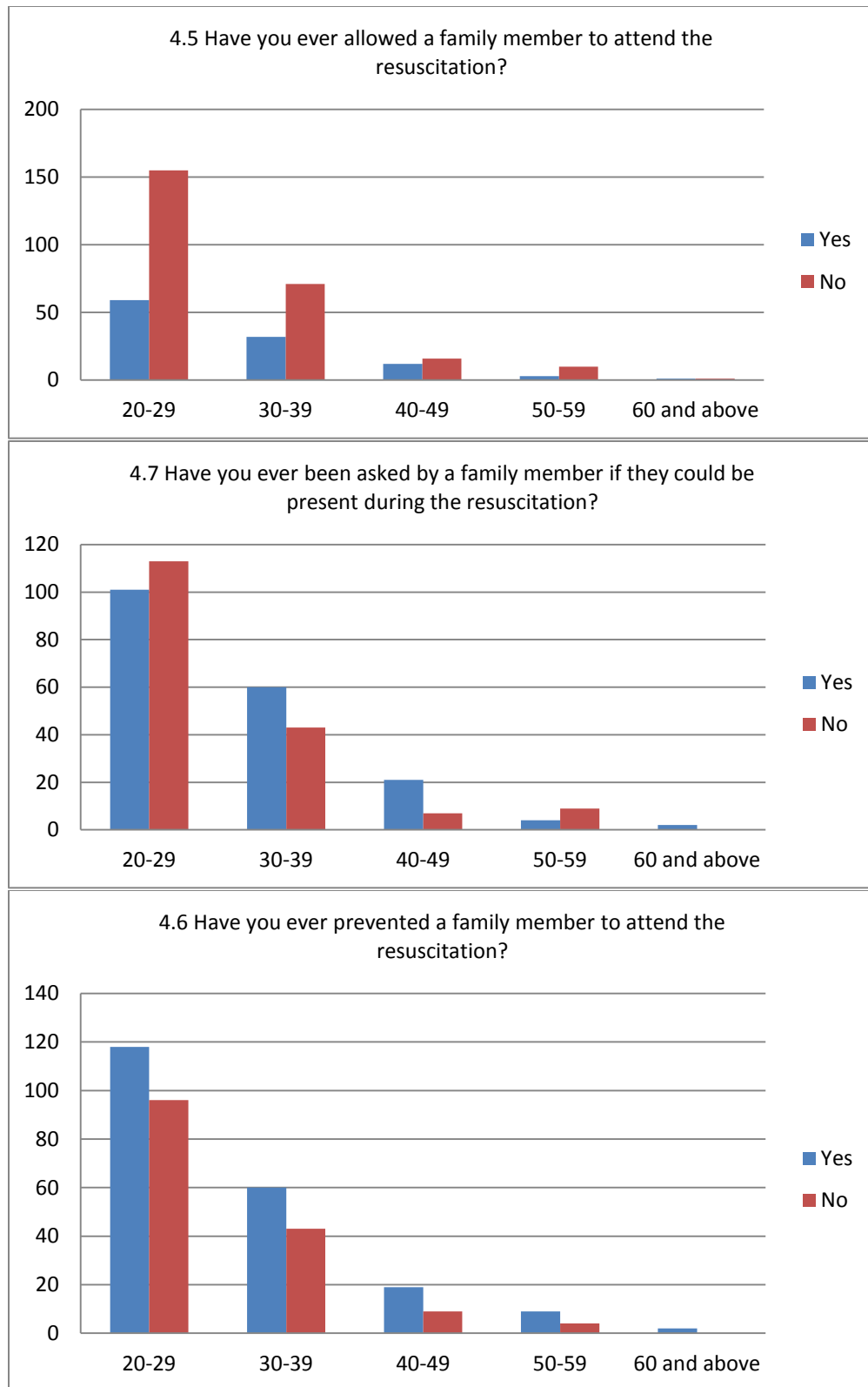
So, we can conclude that there is no impact of the experience on the decisions of the participants. And the previous charts represent that.

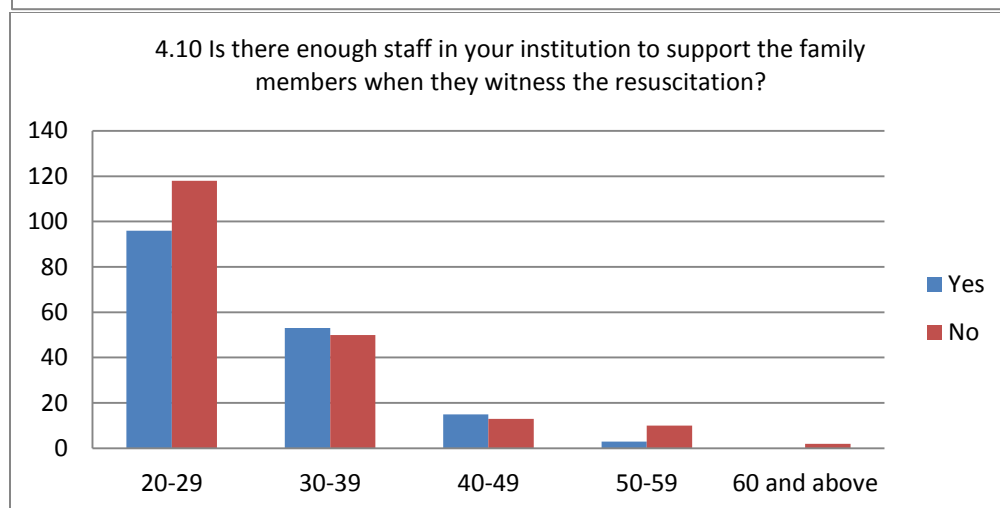
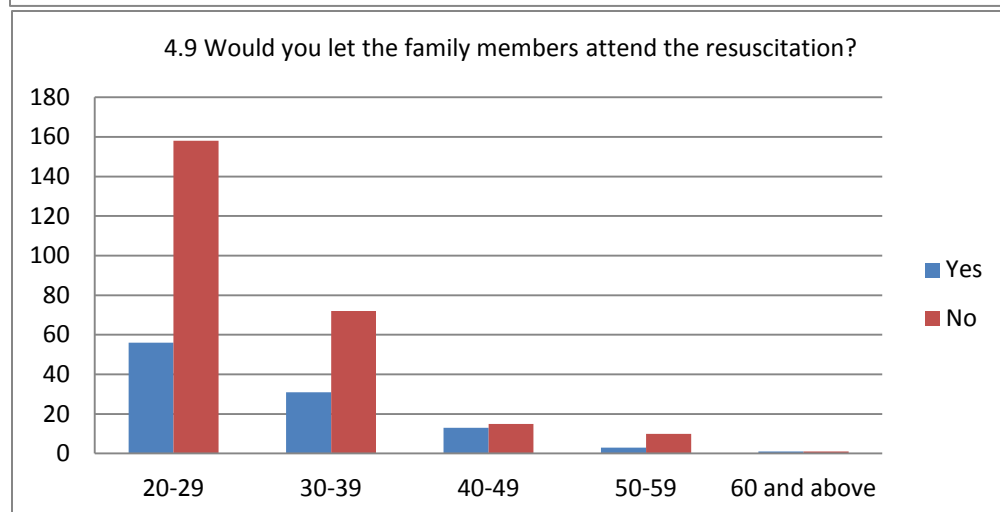
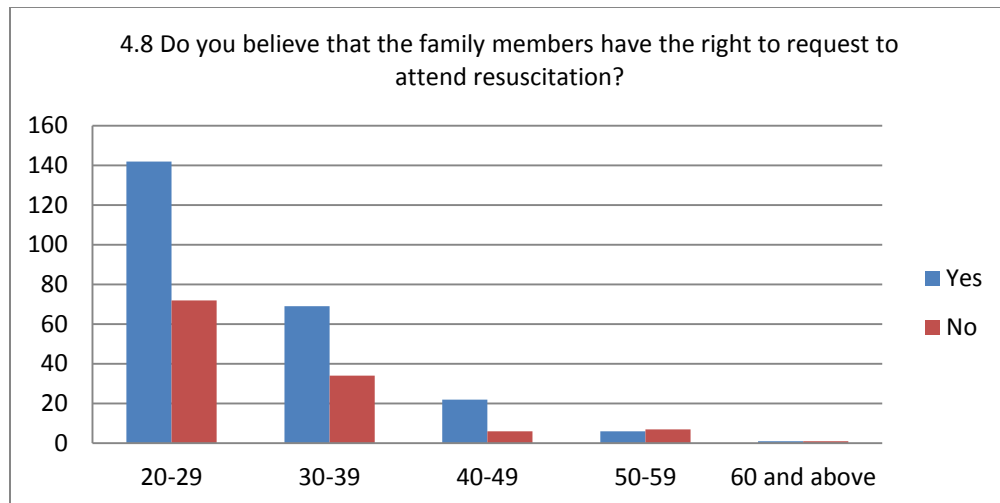
**Table 4:- HCP Age vs. queries of Table 1.**

Table 4:- HCP Age vs. queries of Table 1.							
HCP Profession	20-29	30-39	40-49	50-59	60 and above	Total	Chi-Square Test
							Value (Sig.)
4.1 Do you believe in the family presence?							
Yes	56	27	10	2	1	96	0.625
No	158	76	18	11	1	264	
Total	214	103	28	13	2	360	
4.2 Does your institution currently have a written policy for the family presence during resuscitation?							

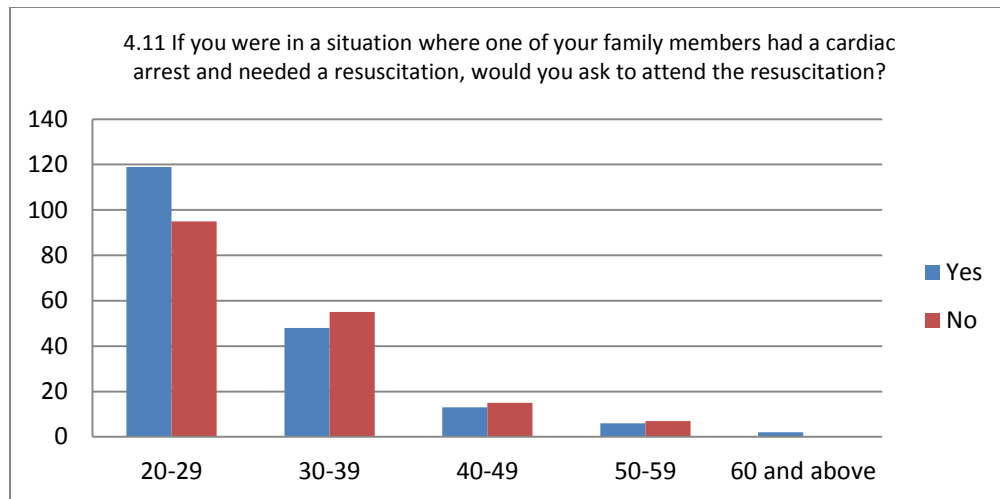
Yes	43	22	6	0	0	71	0.416
No	171	81	22	13	2	289	
Total	214	103	28	13	2	360	
4.3 Would you support the policy of family presence during resuscitation to be applied?							
Yes	77	26	13	3	1	120	0.151
No	137	77	15	10	1	240	
Total	214	103	28	13	2	360	
4.4 If the policy of family presence during resuscitation was applied in your institution, would you allow the family to attend?							
Yes	92	51	18	8	1	170	0.192
No	122	52	10	5	1	190	
Total	214	103	28	13	2	360	
4.5 Have you ever allowed a family member to attend the resuscitation?							
Yes	59	32	12	3	1	107	0.471
No	155	71	16	10	1	253	
Total	214	103	28	13	2	360	
4.6 Have you ever prevented a family member to attend the resuscitation?							
Yes	118	60	19	9	2	208	0.413
No	96	43	9	4	0	152	
Total	214	103	28	13	2	360	
4.7 Have you ever been asked by a family member if they could be present during the resuscitation?							
Yes	101	60	21	4	2	188	0.008
No	113	43	7	9	0	172	
Total	214	103	28	13	2	360	
4.8 Do you believe that the family members have the right to request to attend resuscitation?							
Yes	142	69	22	6	1	240	0.341
No	72	34	6	7	1	120	
Total	214	103	28	13	2	360	
4.9 Would you let the family members attend the resuscitation?							
Yes	56	31	13	3	1	104	0.224
No	158	72	15	10	1	256	
Total	214	103	28	13	2	360	
4.10 Is there enough staff in your institution to support the family members when they witness the resuscitation?							
Yes	96	53	15	3	0	167	0.170
No	118	50	13	10	2	193	
Total	214	103	28	13	2	360	
4.11 If you were in a situation where one of your family members had a cardiac arrest and needed a resuscitation, would you ask to attend the resuscitation?							
Yes	119	48	13	6	2	188	0.321
No	95	55	15	7	0	172	
Total	214	103	28	13	2	360	

**Age vs. queries**









After forming tables comparing the variables with the age of the participants ( the percentage of the age groups of the participants in our study :20 -29 years :59.4%,30-39years:28.6%,40-49years:7.8%,50-59years:3.6%, above 60 years:0.6%)

We found that there is no association between the age and taking a particular decision, except in question (4.7) ,in regard to the p-value and margins of error that were decided in this study.

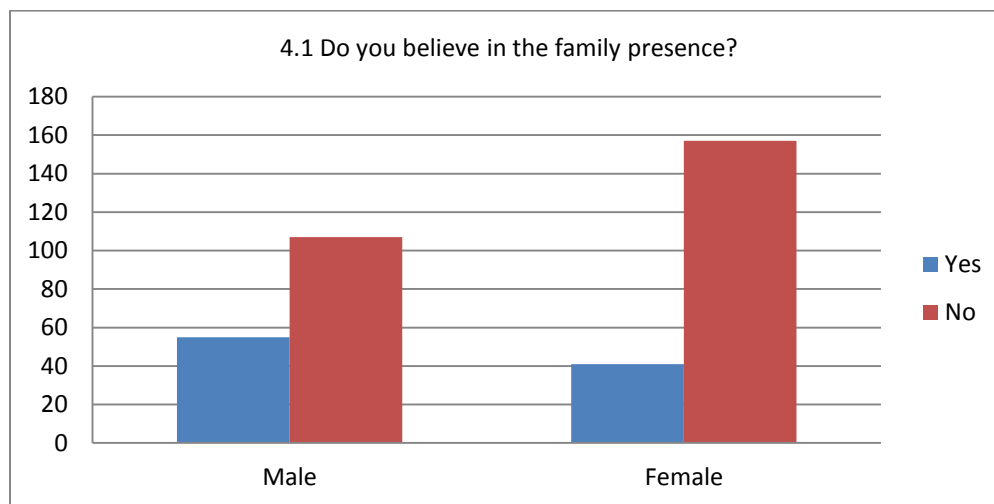
So, we can conclude that there is no impact of the age on the decisions of the participants.

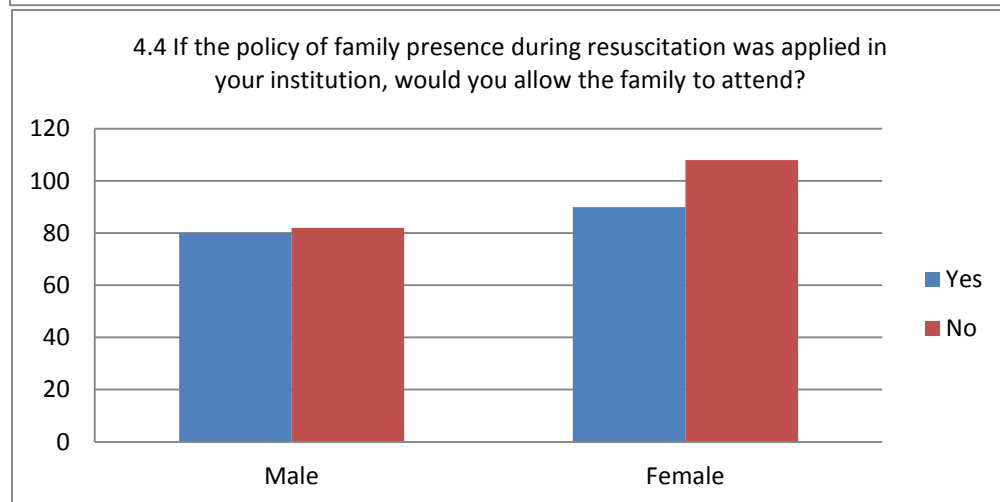
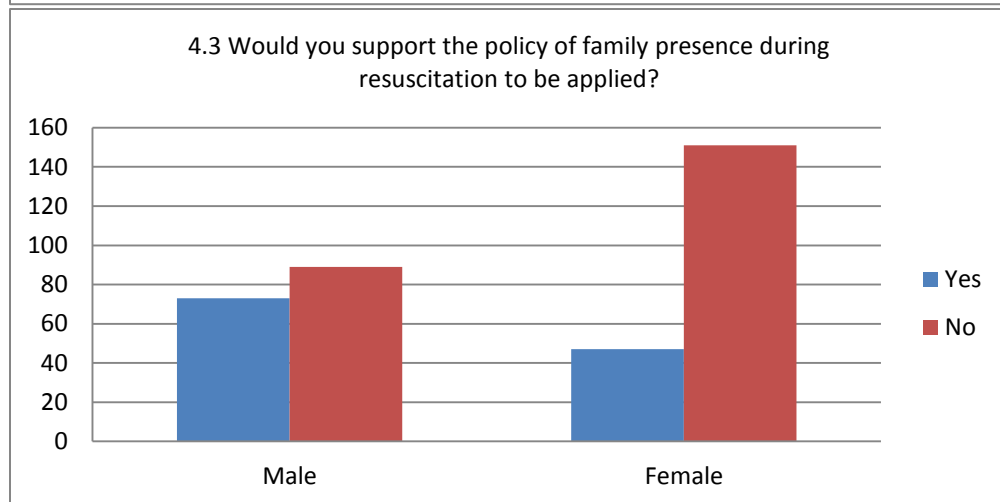
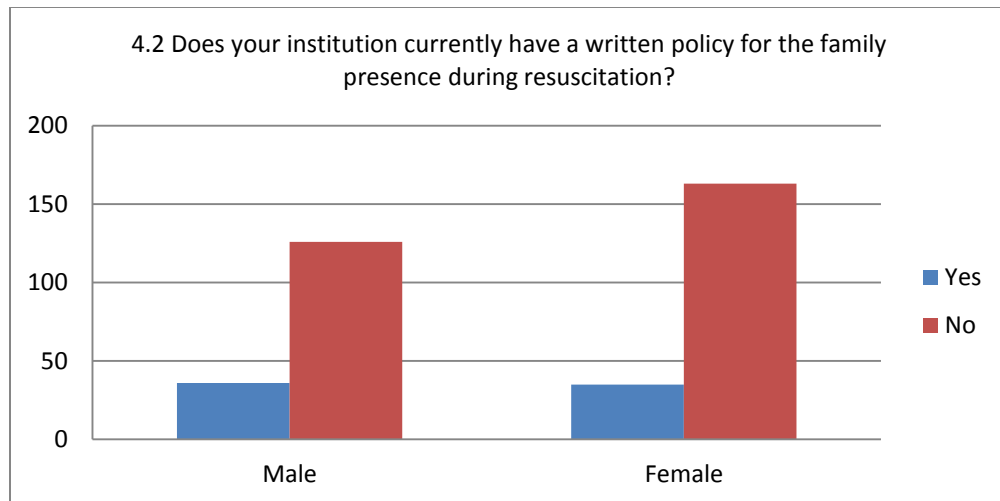
And the previous charts represent that.

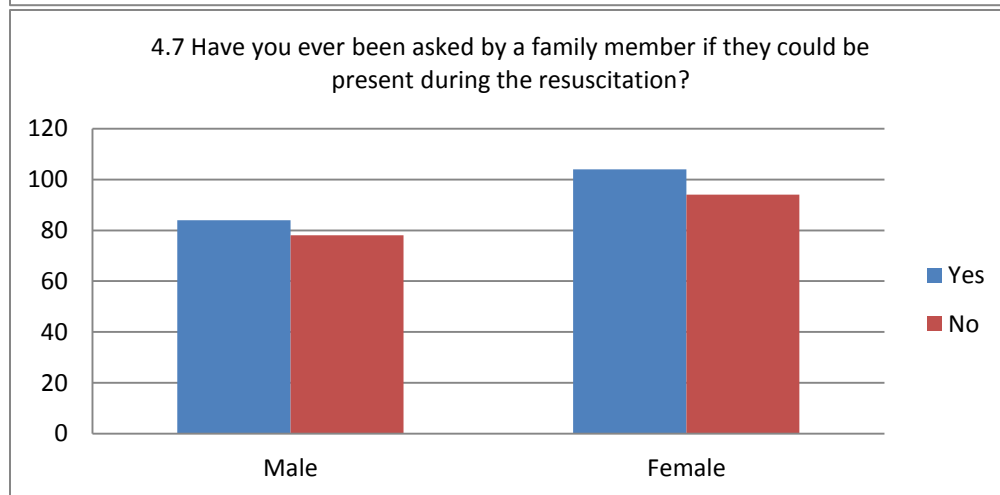
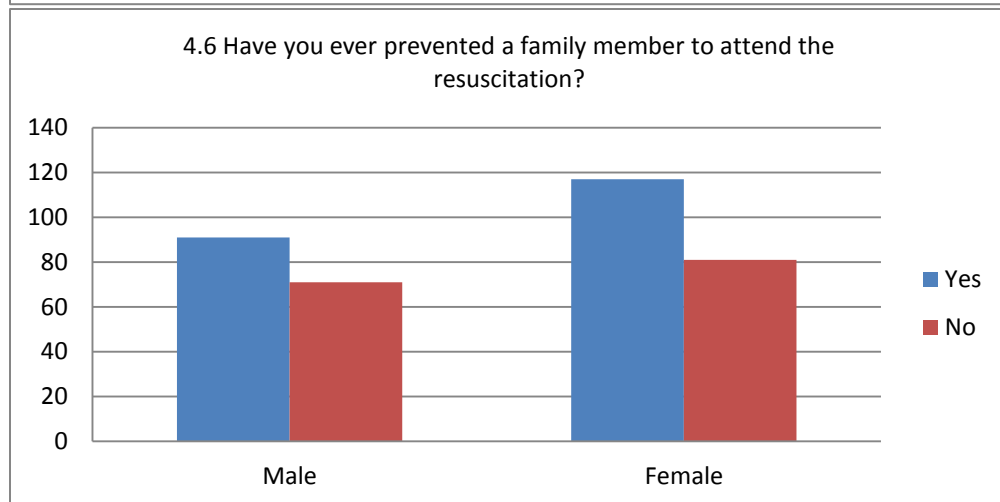
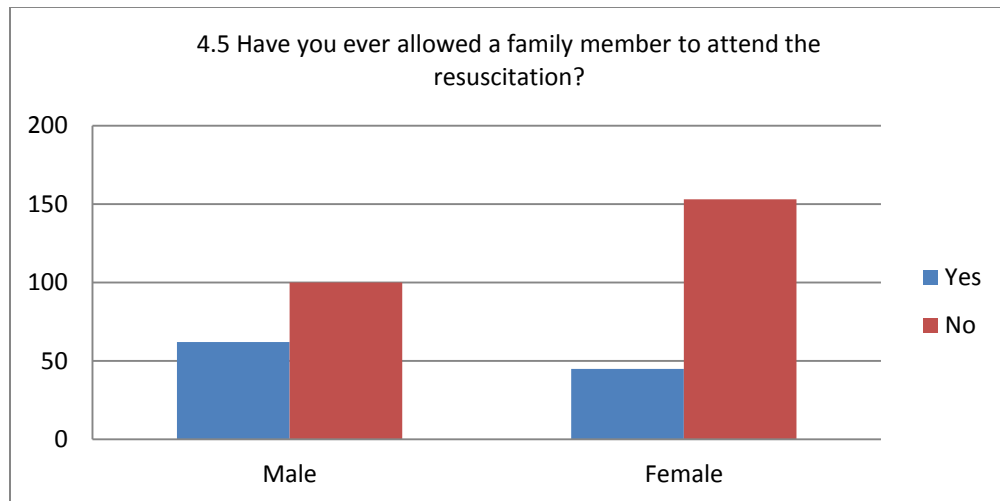
HCP Gender vs. queries				
HCP Profession	Male	Female	Total	Chi-Square Test
				Value (Sig.)
4.1 Do you believe in the family presence?				
Yes	55	41	96	.005
No	107	157	264	
Total	162	198	360	
4.2 Does your institution currently have a written policy for the family presence during resuscitation?				
Yes	36	35	71	.281
No	126	163	289	
Total	162	198	360	
4.3 Would you support the policy of family presence during resuscitation to be applied?				
Yes	73	47	120	.000
No	89	151	240	
Total	162	198	360	
4.4 If the policy of family presence during resuscitation was applied in your institution, would you allow the family to attend?				
Yes	80	90	170	.192
No	82	108	190	
Total	162	198	360	
4.5 Have you ever allowed a family member to attend the resuscitation?				
Yes	62	45	107	.471
No	100	153	253	
Total	162	198	360	
4.6 Have you ever prevented a family member to attend the resuscitation?				
Yes	91	117	208	.413
No	71	81	152	

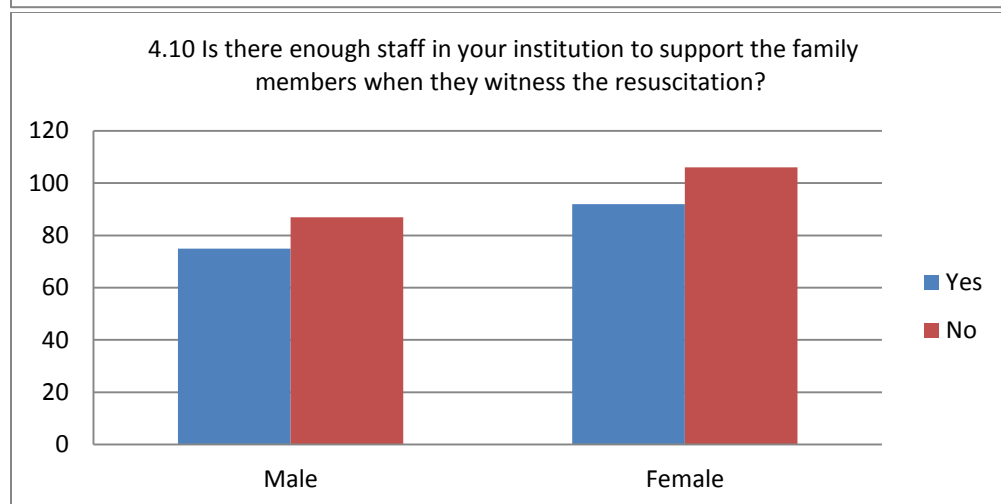
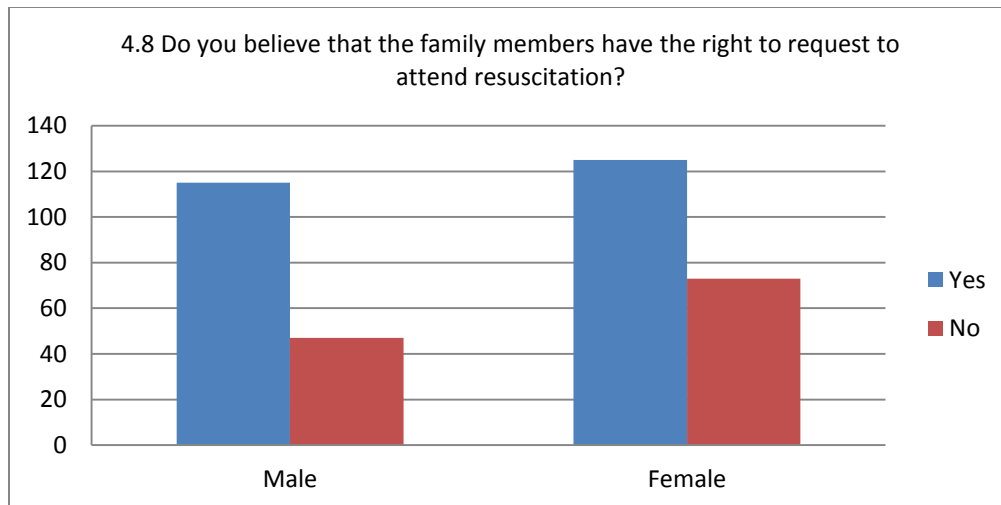
Total	162	198	360	
<b>4.7 Have you ever been asked by a family member if they could be present during the resuscitation?</b>				
Yes	84	104	188	.008
No	78	94	172	
Total	162	198	360	
<b>4.8 Do you believe that the family members have the right to request to attend resuscitation?</b>				
Yes	115	125	240	.341
No	47	73	120	
Total	162	198	360	
<b>4.9 Would you let the family members attend the resuscitation?</b>				
Yes	59	45	104	.224
No	103	153	256	
Total	162	198	360	
<b>4.10 Is there enough staff in your institution to support the family members when they witness the resuscitation?</b>				
Yes	75	92	167	.170
No	87	106	193	
Total	162	198	360	
<b>4.11 If you were in a situation where one of your family members had a cardiac arrest and needed a resuscitation, would you ask to attend the resuscitation?</b>				
Yes	91	97	188	.321
No	71	101	172	
Total	162	198	360	

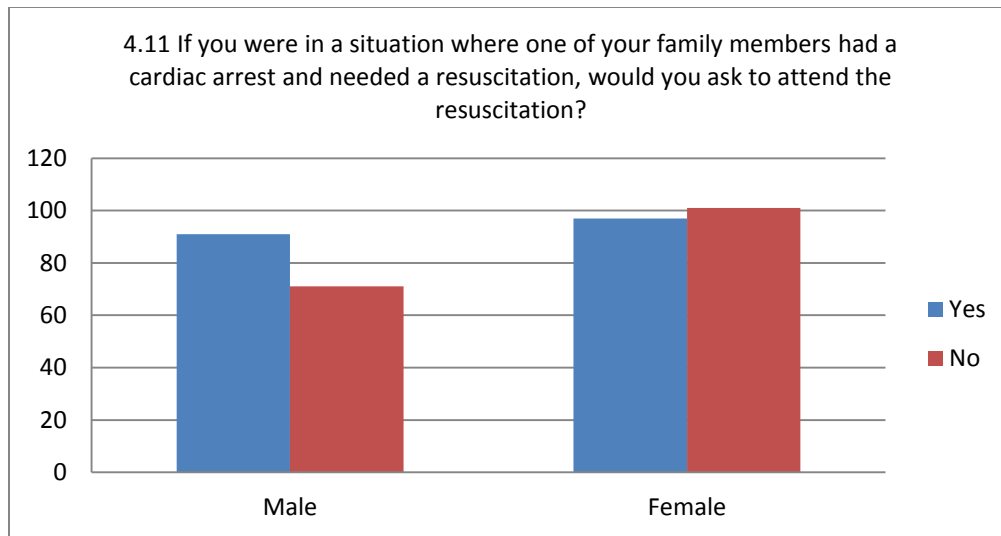
#### Gender vs. queries











After forming tables comparing the variables with the gender of the participants

(in this study the female gender represents:55%,and the male gender represents:45% of the participants)

We found that there is association between the gender and taking a particular decision, such as in question (4.1,4.3,4.7), in regard to the p-value and margins of error that were decided in this study.

So, we can conclude that there is impact of the gender on the decisions of the participants.

And the previous charts represent that.

### **Acknowledgment:-**

WE dedicate our work to our families and many friends. Words of encouragement and push for tenacity ring in my ears. A special feeling of gratitude and special thanks to doctor Mohamed Al-Shahrani who was the supervisor of the work and also, the research team in PSMH, for their support till the end of this work, teaching us many skills and a lot of we cannot numerate. We also dedicate this work to many of our friends and who have supported us throughout the process, we will always appreciate all they have done.